DESIGN DRAWINGS

Heritage Prairie WTG Diagrams

Capital Procurement

April 2024



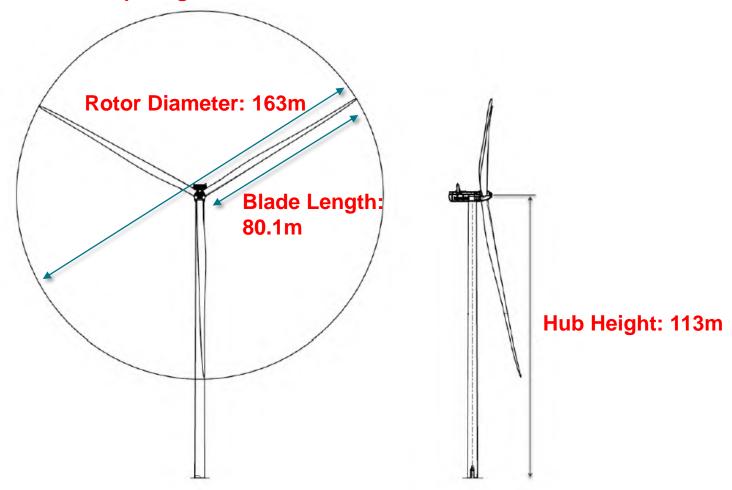
Disclaimers

- Drawings are indicative and not to scale
- WTG configurations, including hub heights, tip heights and rotor diameters are not final and represent example configurations currently being studied by Pattern
- Drawings to be used for informational and illustrative purposes only



Vestas V163-4.5MW – 113m Hub Height

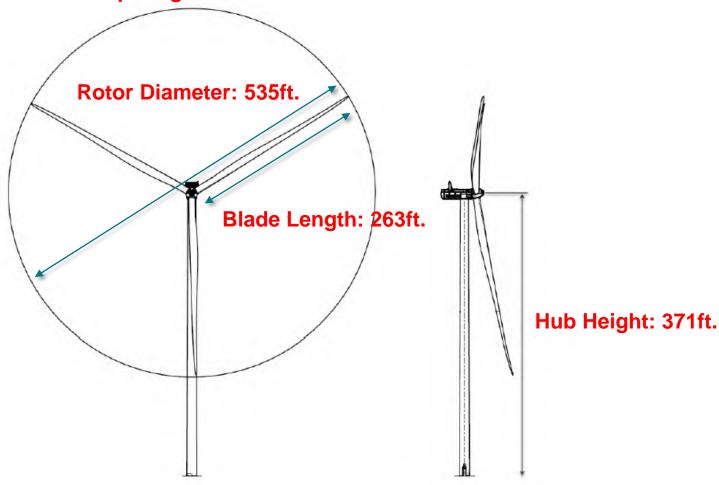
Tip Height: 194.5m



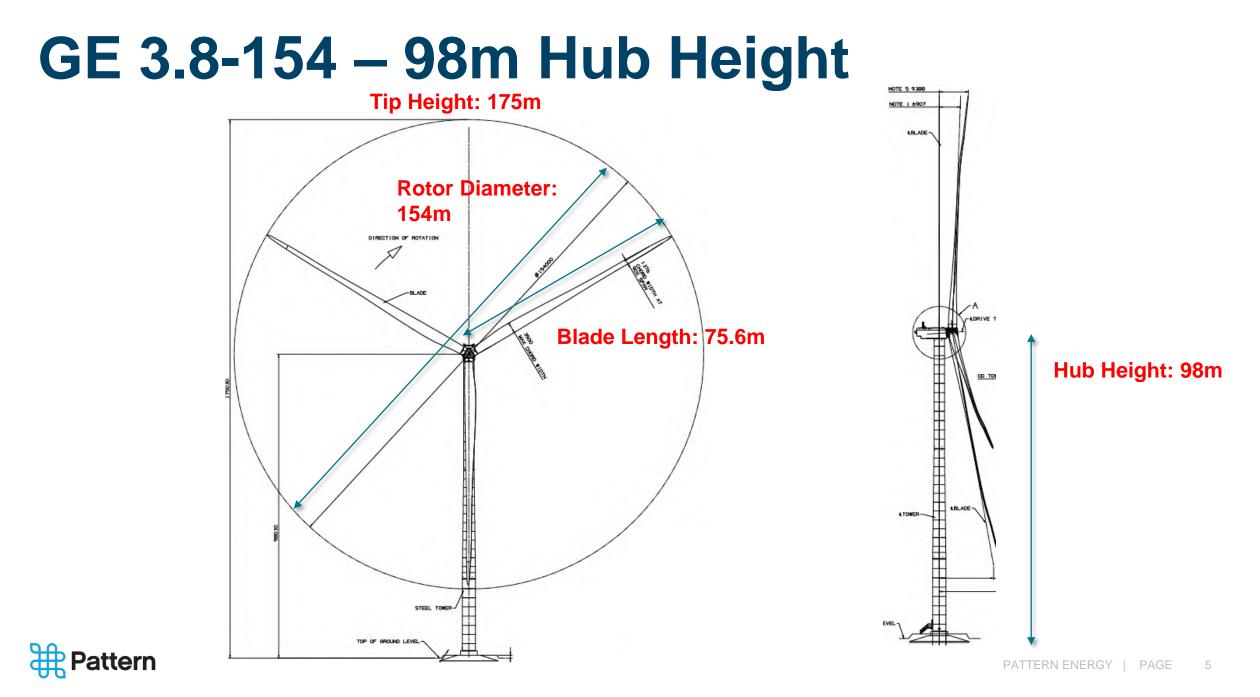


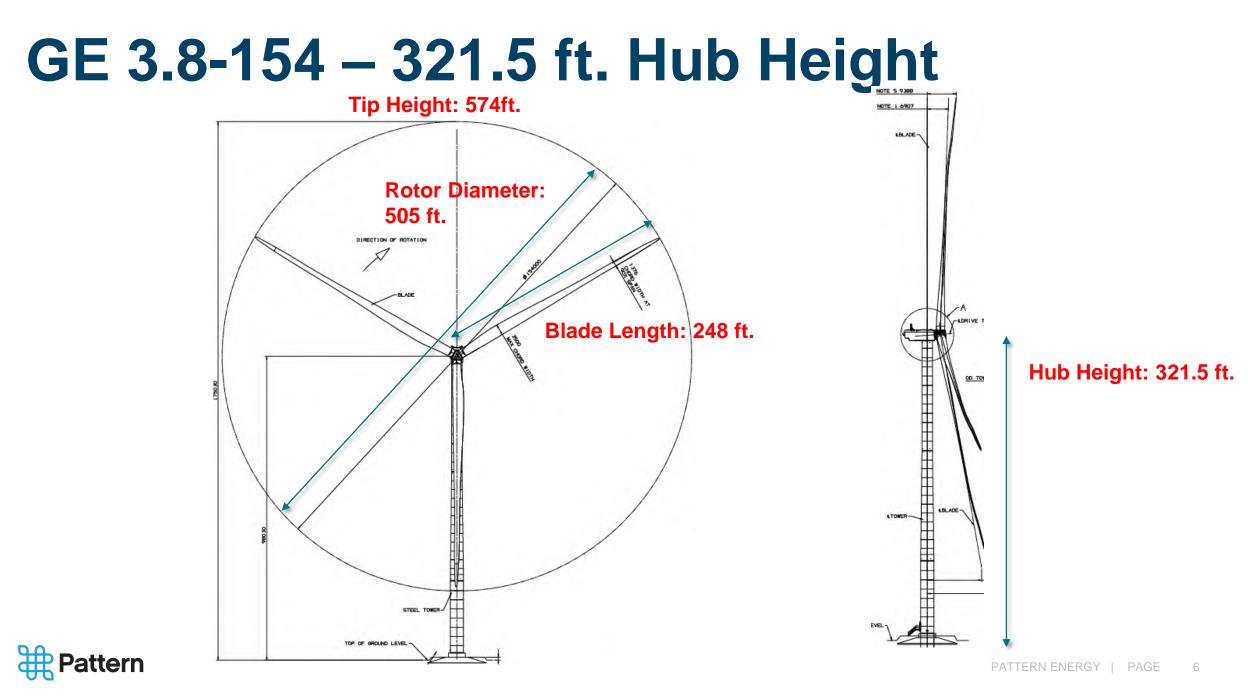
Vestas V163-4.5MW – 371 ft. Hub Height

Tip Height: 638ft.









∕ 20' SWING GATE 185' _____ 185' _____ 185' _____ TO KANKAKEE SOLAR SUBSTATION <u>€ S.A, A-FRAME &</u> M.O. SWITCH 89L3 HIGH BUS <u>€ MPT1</u> BAY • 16' 🛶 16' • _____ 1 <u>€ M.O. SWITCH</u> 89L2 <u>€ BRKR 52L1</u> -& MPT2 BAY <u>€ S.A, A-FRAME &</u> M.O. SWITCH 89L3 -TO LIVINGSTON WIND SUBSTATION A 200 89H1 AKER 52T1

local/Global Proiects/0029893.00/130. Substation\3 Design Stade\1 Drawings/Physical/Current Working/Kankakee Wind/FP100 General Arrangement dwg 6/21/2023 3:42 P

VOLT	ΓAGE	MINIMUM METAL-TO-METAL	DESIGN CENTERLINE TO	CLEARANCE TO GROUNDED PARTS	MINIMUM CLEARANCE	MINIMUM CLEARANCE
	-	CLEARANCE	CENTERLINE PHASE	FOR RIGID BUS	BETWEEN	BETWEEN
		PHASE-TO-PHASE	SPACING FOR	RECOMMENDED	OVERHEAD BUS	OVERHEAD BUS
KV	BIL		RIGID BUS		AND GROUND FOR PERSONAL SAFETY	AND ROADWAY
345	1300	13'-0"	16'-0"	8'-8"	18'-0"	27'-0"
34.5	200	1'-6"	3'-0"	1'-3"	10'-0"	22'-0"

LEGEND

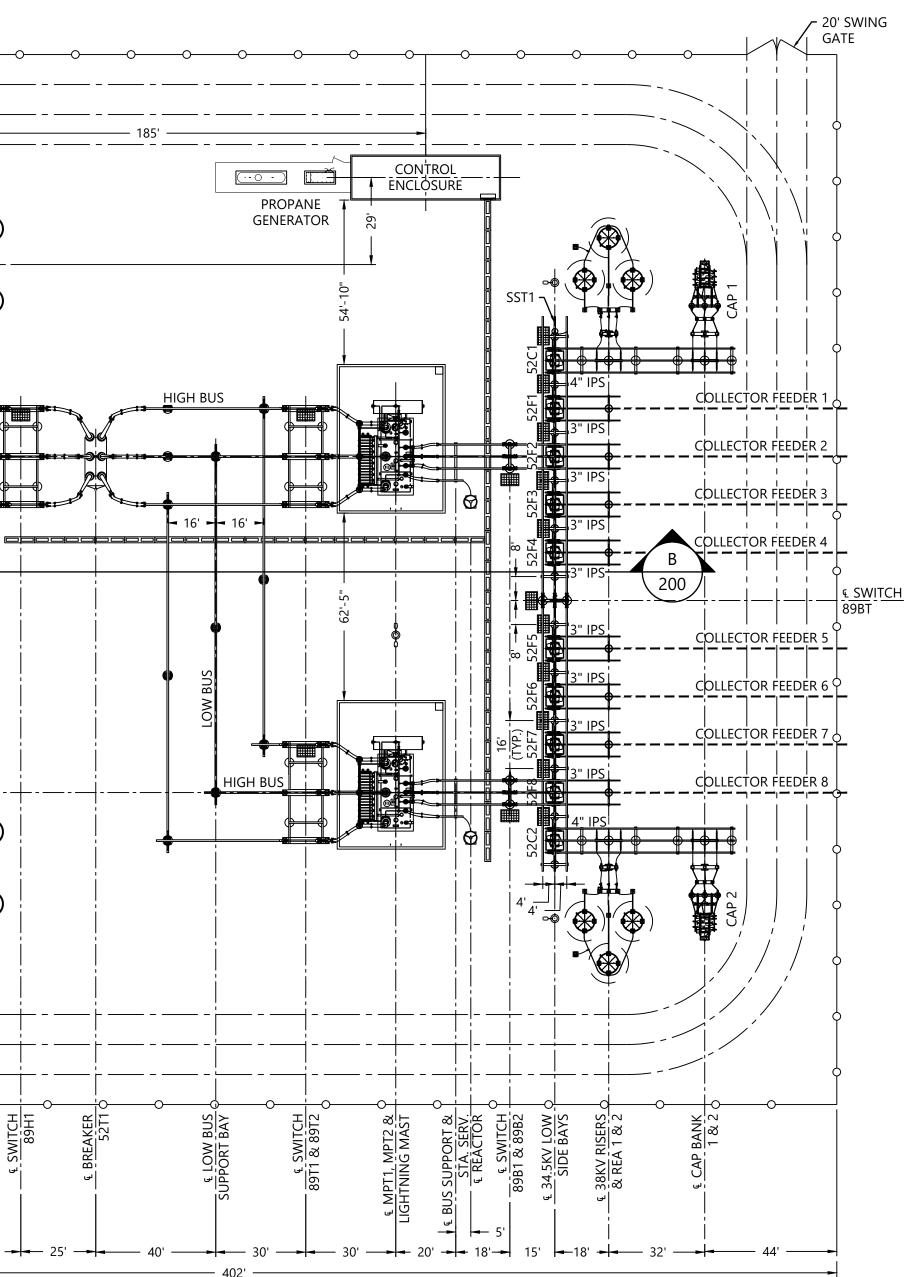
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NOTES

 EQUIPMENT RATINGS SHOWN ARE PRELIMINARY.
 CAPACITOR BANK, SHUNT REACTIVE DEVICE AND NGR, TYPE, QUANTITY AND SIZES ARE FOR BID PURPOSES ONLY, ACTUAL SIZING TO BE DETERMINED BASED ON THE RESULTS OF THE REACTIVE POWER STUDY.
 EXISTING TRANSMISSION LINES WILL BE RETERMINATED TO SUBSTATION.

REFERENCE DRAWING:

EE100 POWER ONE-LINE EP200 SECTION VIEWS



ROAD

ENCE

EDESTRIAN RATED TRENCH

HIELD WIRE

OUCK BANK

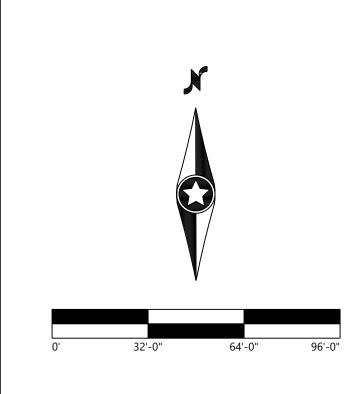


PREPARED FOR:



1201 Louisiana Street, Suite 3200 Houston, TX 77002

RE	VISIONS:				
#	DATE	COMMENT	BY	СНК	APR
А	11/18/2022	10% SUBMITTAL - ISSUED FOR REVIEW	HE	CN	DD
В	06/08/2023	10% SUBMITTAL - RE-ISSUED FOR REVIEW	HE	CN	DD
С	06/23/2023	10% SUBMITTAL - RE-ISSUED FOR REVIEW	HE	CN	DD



Heritage Prairie Kankakee Wind

Kankakee, Illinois

General Arrangement

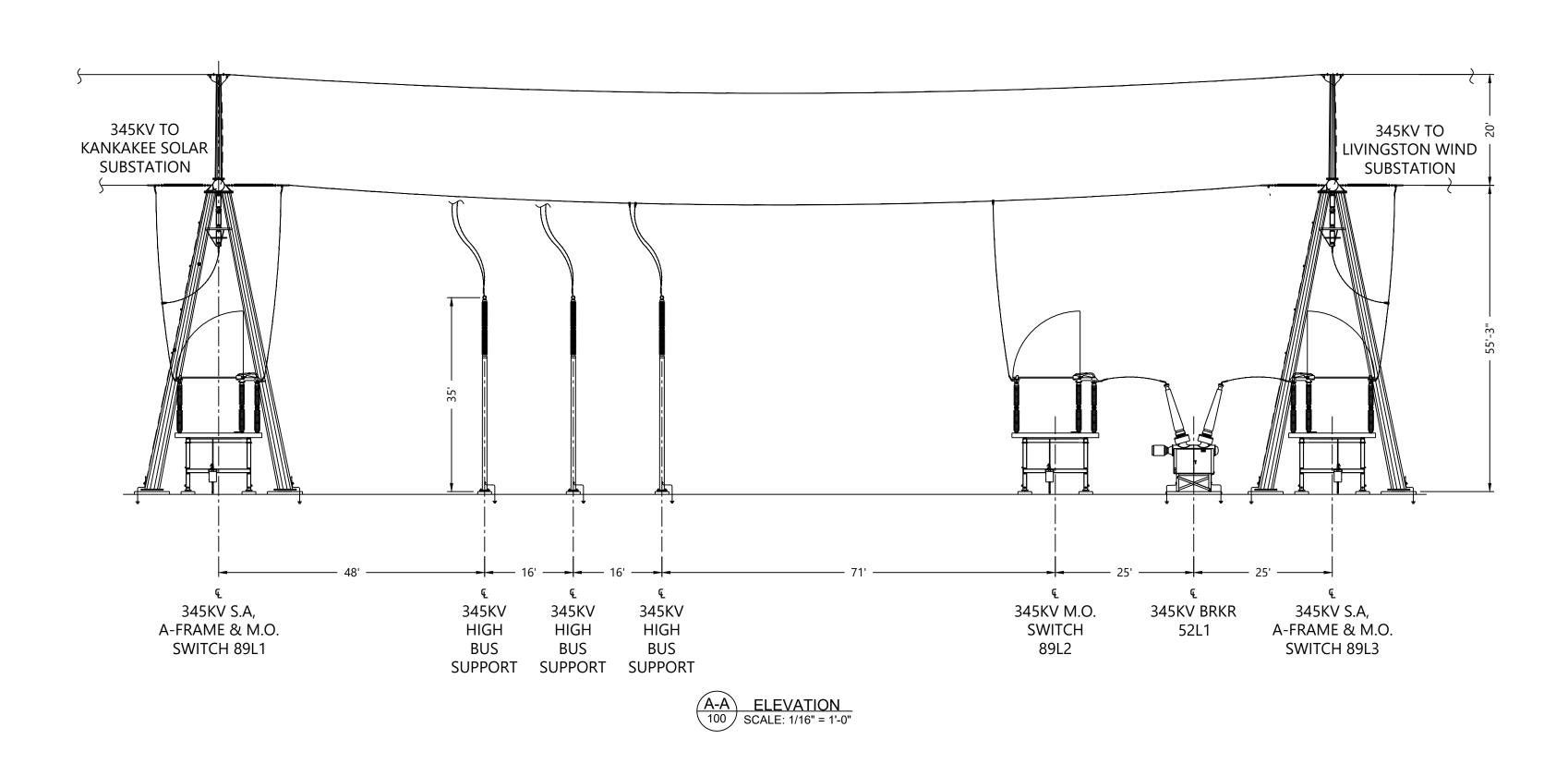
NOT FOR CONSTRUCTION

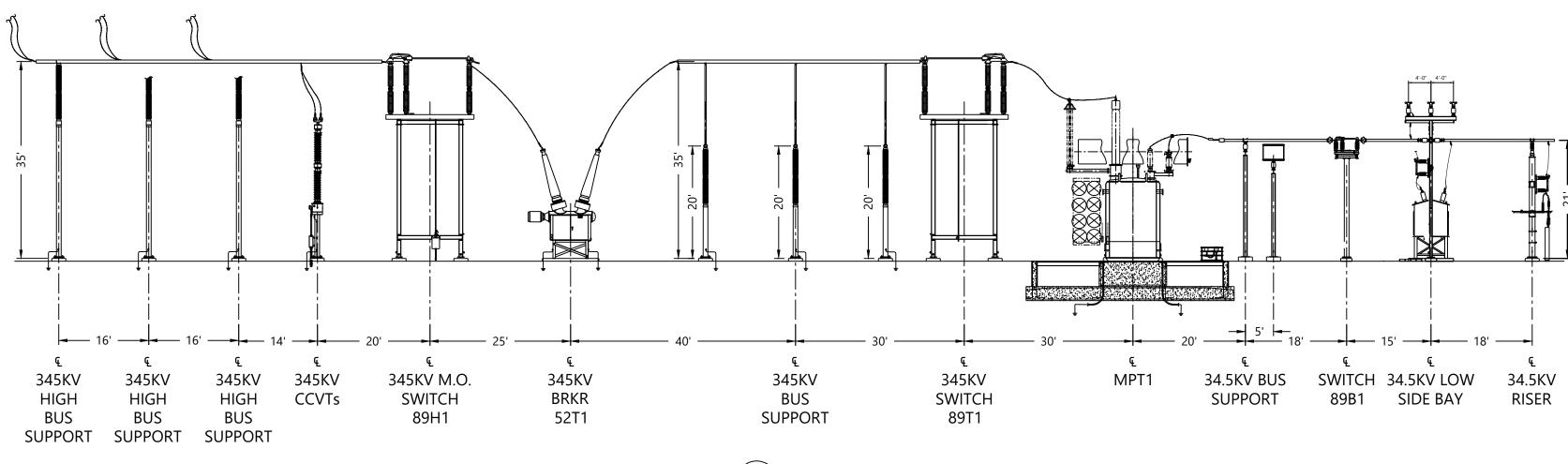
DATE:

06/23/23 EP100



SHEET:





B-B ELEVATION 100 SCALE: 1/16" = 1'-0"

NOTES:

- UTILITIES DIMENSIONS.
- 3. REFERENCES USED HAVE BEEN IDENTIFIED ON LOCATION OF EXISTING UTILITIES AND OTHER POTENTIAL ONLY SHOW THE APPROXIMATE LOCATION OF POTENTIAL UNDERGROUND OR EMBEDDED UTILITIES AND MAY NOT INDICATE OR THEIR ACTUAL LOCATIONS.
- MAY AFFECT THE WORK.
- IDENTIFIED.
- COMPLETE.

REFERENCE DRAWING:

EP100 GENERAL ARRANGEMENT

1. ALL WORK DONE BY CONTRACTOR/INSTALLER PURSUANT TO THIS DRAWING SHALL: (A) CONFORM TO THE GOVERNING CONTRACT DOCUMENTS; (B) BE PERFORMED EXCLUSIVELY BY TRAINED, COMPETENT PERSONNEL OR, WHERE PERMITTED , THAT OF ITS SUBCONTRACTOR(S); AND (C) COMPLY WITH ALL APPLICABLE SAFETY LAWS, REGULATIONS, PROGRAMS AND PRACTICES TO ENSURE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING THE CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUBCONTRACTORS(S)) PERFORMING THE WORK.

2. UNDERGROUND OR EMBEDDED UTILITIES [MAY] EXIST WITHIN THE AREA OF AND ADJACENT TO THE LIMITS OF THE WORK. THE LOCATION OR IDENTIFICATION OF SUCH UTILITIES HAS NOT BEEN VERIFIED BY OWNER OR BY WESTWOOD. CONTRACTOR/INSTALLER IS RESPONSIBLE FOR FIELD LOCATING AND IDENTIFICATION UNDERGROUND OR EMBEDDED UTILITIES AND ANY OTHER UNDERGROUND OR EMBEDDED

EXCAVATION/FOUNDATION/DEMOLITION DRAWINGS AND HAVE BEEN PROVIDED TO ASSIST THE CONTRACTOR/INSTALLER IN THE FIELD

UNDERGROUND OR EMBEDDED INTERFERENCES. THESE REFERENCES

REFLECT ALL EXISTING UNDERGROUND OR EMBEDDED UTILITIES OR

4. REFERENCES IDENTIFIED SHALL NOT SUBSTITUTE FOR THE

CONTRACTOR'S/INSTALLER'S OBLIGATION TO FIELD LOCATE ANY UNDERGROUND OR EMBEDDED UTILITIES OR INTERFERENCES THAT

5. DUE CAUTION SHALL BE TAKEN DURING ANY

EXCAVATION/FOUNDATION/DEMOLITION WORK WITHIN THE AREA OF AND ADJACENT TO THE LIMITS OF THE WORK DUE TO POSSIBLE INTERFERENCES THAT MAY NOT BE REFLECTED ON THE REFERENCES

6. ALL EQUIPMENT SHOWN IS PRELIMINARY FOR CONCEPTUAL DESIGN. EPC CONTRACTOR TO VERIFY IN DETAILED DESIGN. 7. FOR REACTOR, CAP BANK AND CONNECTIONS, EXACT LOCATION AND CONFIGURATION TO BE DETERMINED WHEN FINAL REACTIVE DESIGN IS

8. PRECAST CONCRETE CABLE TRAY SHALL BE HEAVY TRAFFIC, HS-20 RATED AT ALL ROAD CROSSINGS, AS MANUFACTURED BY TRENWA. 9. PHASING TO BE VERIFIED BY ENGINEER OF RECORD.



Phone Fax Toll Free Westwood Professional Services, Inc.

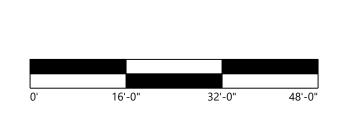
(952) 937-5150 12701 Whitewater Drive, Suite #300 (952) 937-5822 Minnetonka, MN 55343 (888) 937-5150 westwoodps.com

PREPARED FOR:



1201 Louisiana Street, Suite 3200 Houston, TX 77002

REVISIONS:				
# DATE	COMMENT	BY	СНК	APR
A 11/18/2022	10% SUBMITTAL - ISSUED FOR REVIEW	HE	CN	DD
B 06/08/2023	10% SUBMITTAL - RE-ISSUED FOR REVIEW	HE	CN	DD
C 06/23/2023	10% SUBMITTAL - RE-ISSUED FOR REVIEW	HE	CN	DD



Heritage Prairie **Kankakee Wind**

Kankakee, Illinois

Section Views

NOT FOR CONSTRUCTION

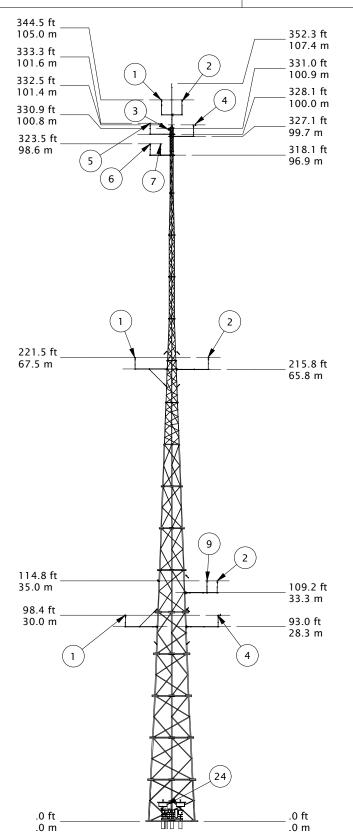
DATE:

06/23/2023

EP200

REV:

SHEET:



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AS VIEWED FROM PREVAILING	
WIND DIRECTION of 240° TRUE NORTH	Н
SCALE 1 / 550	

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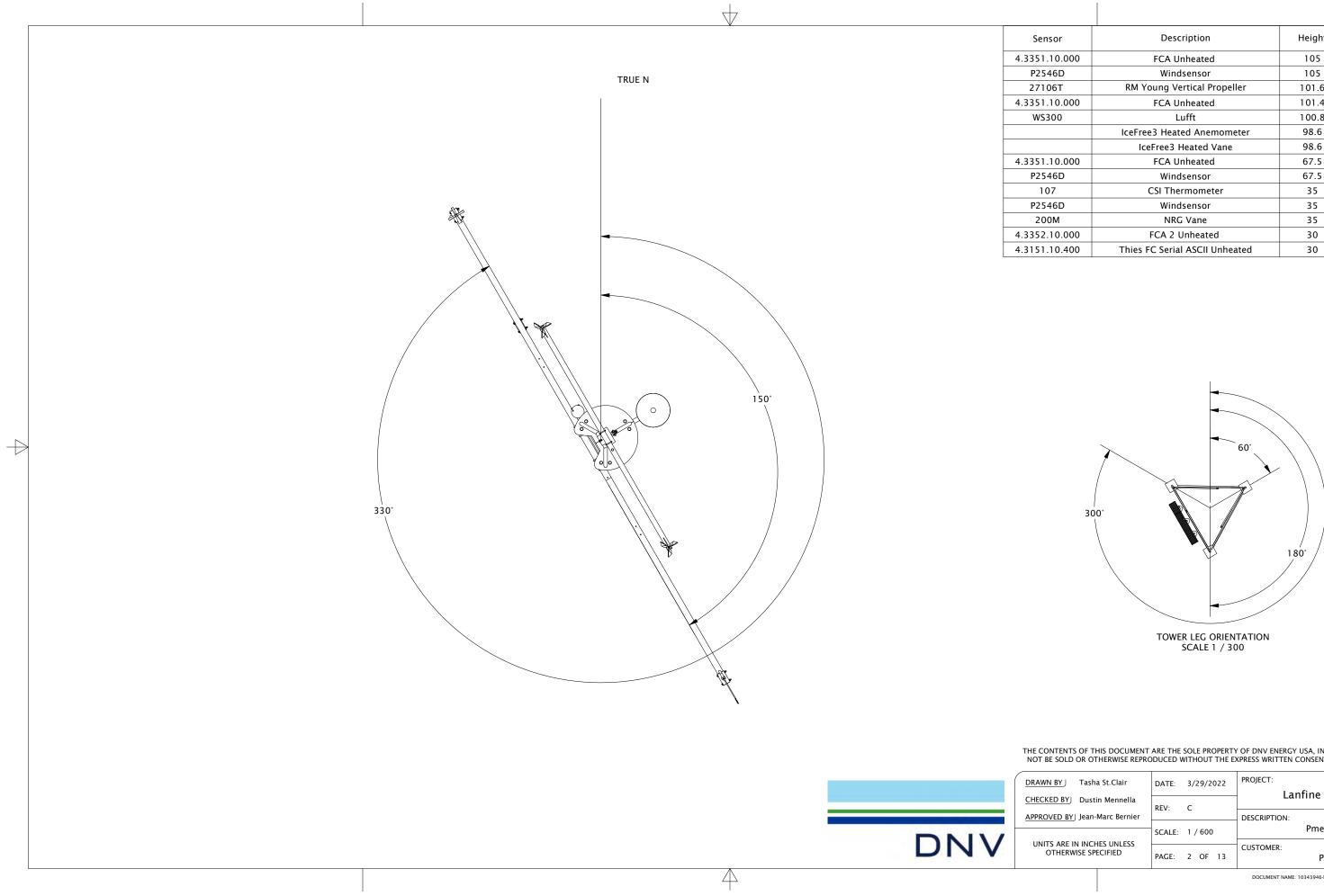
			PARTS LIST	
ITEM	QTY	PART NUMBER	DESCRIPTION	CALIBRATION
1	3	4.3351.10.000	Thies FC Unheated Anemometer	MEASNET wind tunnel per IEC 61400-12-
2	3	P2546D	Windsensor Anemometer	MEASNET wind tunnel per IEC 61400-12-
3	1	WS300	Lufft Multisensor	Sensor manufacturer calibration
4	2	4.3151.11.400	Thies Wind Vane	MEASNET wind tunnel per IEC 61400-12-
5	1	27106T	RM Young Vertical Anemometer	
6	1	IF3 Anemometer	NRG IF3 Anemometer	Sensor manufacturer calibration
7	1	IF3 Vane	NRG IF3 Vane	Sensor manufacturer calibration
8	1	107	CSI Temperature Sensor	
9	1	200M	NRG Wind Vane	MEASNET wind tunnel per IEC 61400-12-
10	1		Obstruction Beacon	
11	1	SH-181-000	World Tower 18SR Steel Base	
12	1	TP-500-000	Thies Stub Mast	
13	1	TP-400-000	Universal Stub Mast	
14	1	LH-300-000	Standard Mast & Goalpost	
15	1	LSM-10-100	Lufft Sensor Mount	
16	1	TH-NPS075-000	RM Young 27106T Stombo	
17	4	TH-NPS100-000	Stombo Mast Coupler Assembly	
18	2	TH-TR100-IF-000	Ice Free Stombo	
19	2	TH-TR100-000	Stombo Mast Coupler Assembly	
20	1	TH-SR050-000	NRG Stombo	
21	3	NC-120-000	12 ft Boom Assembly	
22	5	SB-150-BS	15 ft Hinged Boom Backstay	
23	1		S3TL-HD1 330'	
24	1		H-Frame Assembly	

MAST NAME MODEL EASTING NORTHING UTM HEIGHT	MAST INFORMATION								
MAST NAME MODEL EASTING NORTHING OTM HEIGHT	Г								
Pmet2_PCT Sabre S3TL 530738 5681812 12U 105m									

			REVISION HISTORY		DRAWN BY Tasha St.Clair	DATE: 3/29/2022	PROJECT:
REV	DATE	AUTHOR	DESCRIPTION		CHECKED BY Dustin Mennella	REV: C	Lanfine - 10343946
A	3/29/22	Tasha St.Clair	Initial release		APPROVED BY Jean-Marc Bernier		DESCRIPTION:
В	5/13/2022	Tasha St.Clair	Updates to sensor suite for 60% issuance			SCALE: 1 / 550	Pmet2 Install
С	6/17/2022	Tasha St.Clair	Issued for construction	DNV	UNITS ARE IN INCHES UNLESS OTHERWISE SPECIFIED		CUSTOMER:
					OTTERWISE STEELIED	PAGE: 1 OF 13	Pattern
						·	DOCUMENT NAME: 10343946-HOU-DG-1-A-Lanfine Pmet2 Assembly 032822.iam

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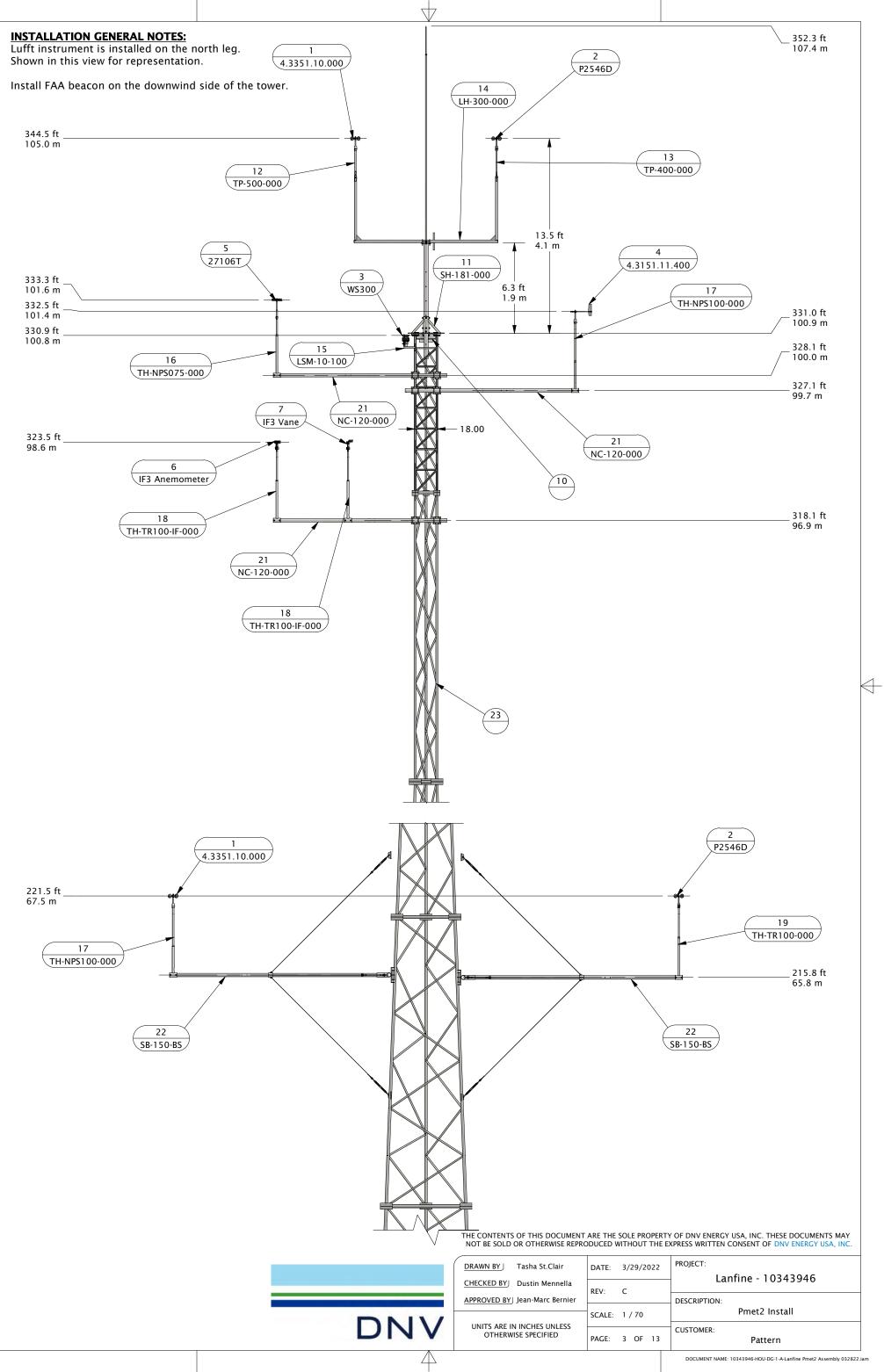
Description	Height	Orientation
FCA Unheated	105	330
Windsensor	105	150
RM Young Vertical Propeller	101.6	330
FCA Unheated	101.4	150
Lufft	100.8	0
IceFree3 Heated Anemometer	98.6	330
IceFree3 Heated Vane	98.6	330
FCA Unheated	67.5	330
Windsensor	67.5	150
CSI Thermometer	35	
Windsensor	35	150
NRG Vane	35	150
FCA 2 Unheated	30	330
Thies FC Serial ASCII Unheated	30	150
	FCA Unheated Windsensor RM Young Vertical Propeller FCA Unheated Lufft IceFree3 Heated Anemometer IceFree3 Heated Vane FCA Unheated Windsensor CSI Thermometer Windsensor NRG Vane FCA 2 Unheated	FCA Unheated105Windsensor105RM Young Vertical Propeller101.6FCA Unheated101.4Lufft100.8IceFree3 Heated Anemometer98.6IceFree3 Heated Vane98.6FCA Unheated67.5Windsensor67.5CSI Thermometer35Windsensor35NRG Vane35FCA 2 Unheated30

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Tasha St.Clair	DATE:	3/29/2022	PROJECT:		
Dustin Mennella	REV:	C	Lanfine - 10343946		
ل Jean-Marc Bernier	NL ¥.		DESCRIPTION:		
	SCALE: 1 / 600 PAGE: 2 OF 13		Pmet2 Install		
IN INCHES UNLESS VISE SPECIFIED			CUSTOMER: Pattern		

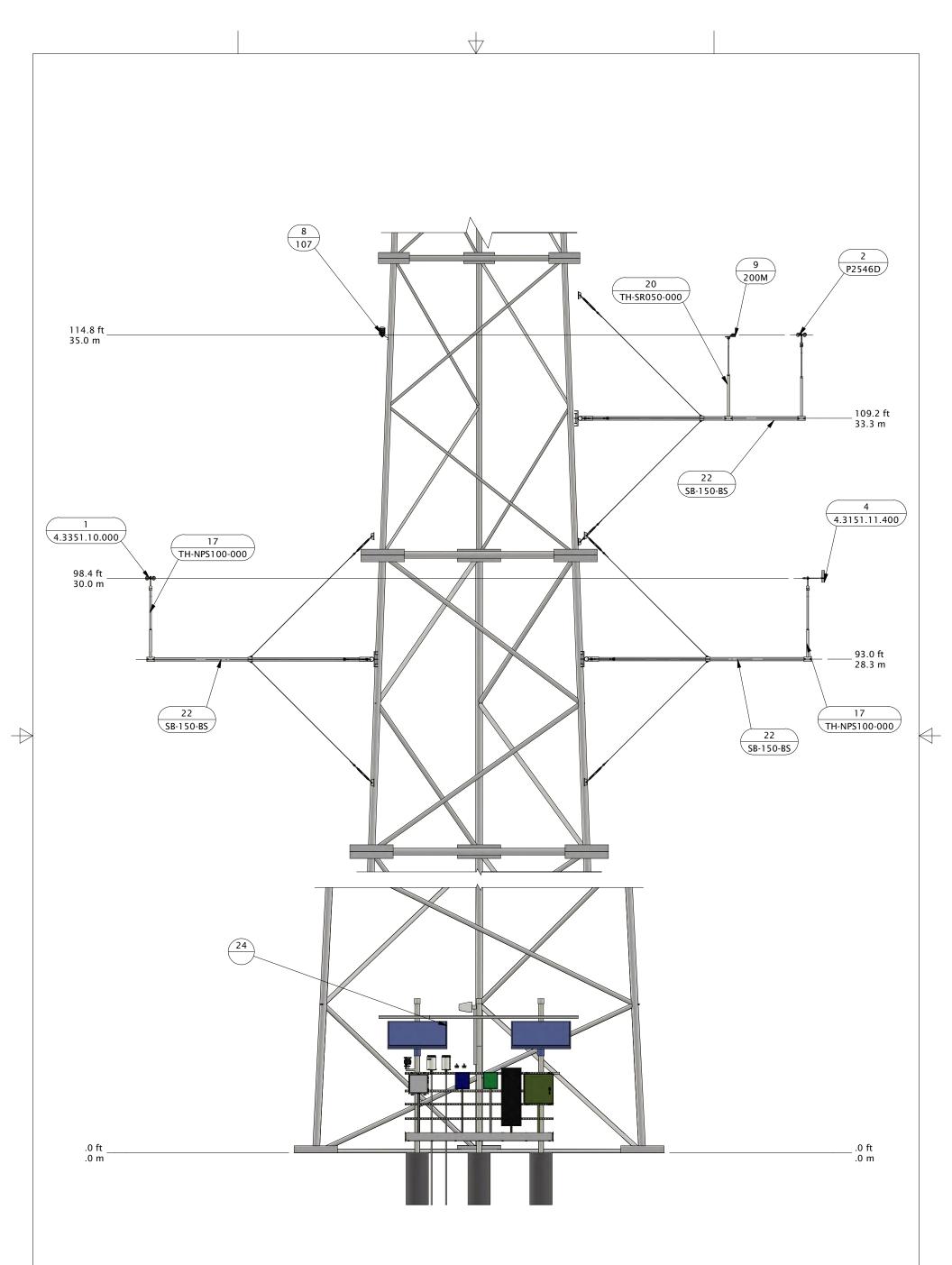
DOCUMENT NAME: 10343946-HOU-DG-1-A-Lanfine Pmet2 Assembly 032822.iam

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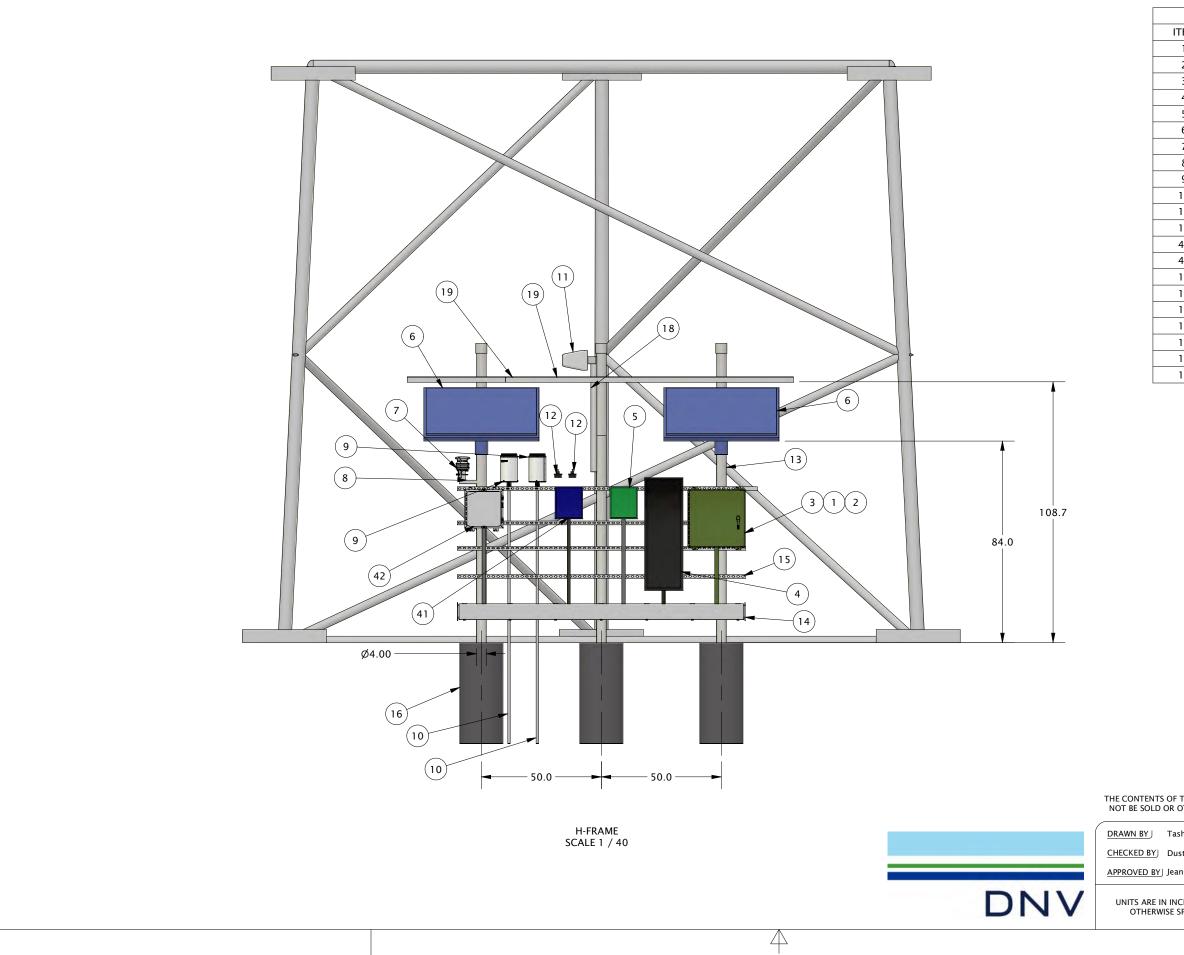


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	DRAWN BY Tasha St.Clair	DATE: 3/29/20	22 PROJECT: Lanfine - 10343946
	CHECKED BY Dustin Mennella APPROVED BY Jean-Marc Bernier	REV: C	DESCRIPTION:
	UNITS ARE IN INCHES UNLESS	SCALE: 1 / 70	Pmet2 Install
DIVV	OTHERWISE SPECIFIED	PAGE: 4 OF	13 CUSTOMER: Pattern
4			DOCUMENT NAME: 10343946-HOU-DG-1-A-Lanfine Pmet2 Assembly 032822.iam



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		PAR	TS LIST
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	CR1000X	CSI Data Logger
2	1	RV50X	CSI Modem
3	1		Datalogger Enclosure
4	1		Power System Enclosure
5	1		Obstruction Light Controller Box
6	2		PV Array
7	1	W\$300	Lufft Multisensor
8	1	LSM-10-100	Lufft Sensor Mount
9	2	52202	Tipping Bucket Rain Gauge
10	2		10ft Pipe
11	1	314411	Wilson Yagi Antenna
12	2	0871LP1	CSI Freezing Rain Sensor
41	1		Fiber Optic Splice Enclosure
42	1		Battery Enclosure
13	3		Graybar Conduit
14	1		Wireway
15	4		Unistrut Channel
16	3		Concrete Base
17	3		Graybar Conduit Cap
18	3		4ft Extension Pipe
19	1		Ice Bridge

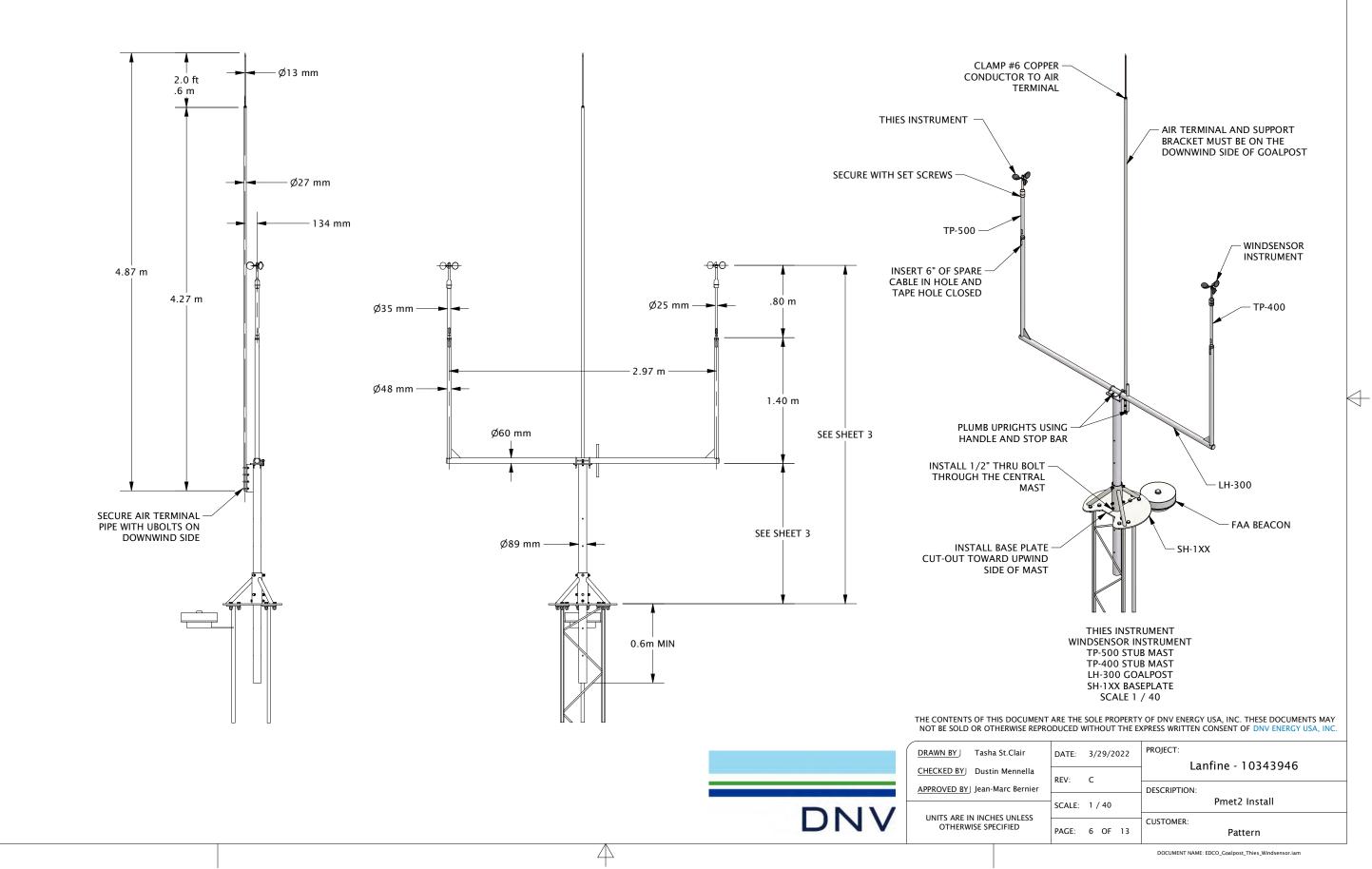
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Tasha St.Clair	DATE:	3/29/2	022	PROJECT:
Dustin Mennella	REV: C			Lanfine - 10343946
(J Jean-Marc Bernier				DESCRIPTION:
	SCALE:	1 / 40		Pmet2 Install
IN INCHES UNLESS WISE SPECIFIED	PAGE:	5 OF	13	CUSTOMER: Pattern

DOCUMENT NAME: Lanfine H-Frame Assembly 032922.iam

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Install FAA beacon on the downwind side of the tower



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Stombo installation details:

1. Loosely install (2) through-bolts through the Stombo collar and boom.

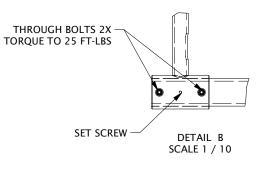
- 2. Plumb the stub mast relative to the boom handles (sidemount)
- or relative to the crossarm level (guyed)

3. If (2) Stombos on one boom, ensure that Stombos are also

plumb to one another

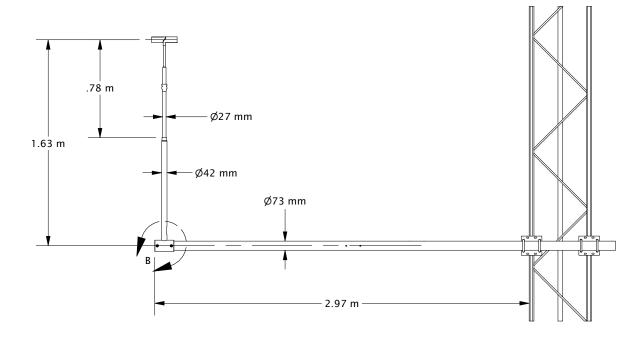
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- 4. Tighten the Stombo set screw
- 5. With the set screw tight, torque the through-bolts to 25 ft-lbs, or
- until the collar squeezes to the boom pipe
- 6. Secure the sensor to the top of the mast.
- 7. If the cable routes externally to the mast, secure the cable to the
- DOWNWIND side of the mast
- 8. Tape the cable hole closed, if present



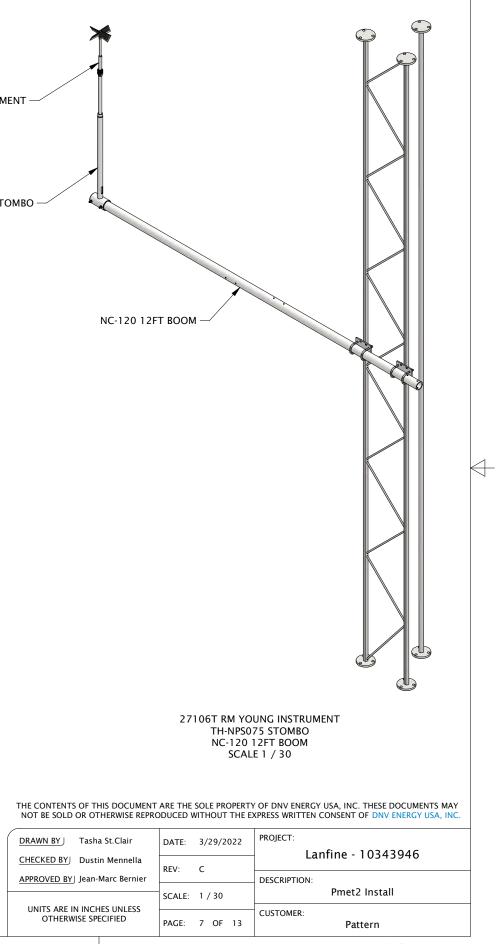
27106T RM YOUNG INSTRUMENT

TH-NPS075 STOMBO



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DNV

DOCUMENT NAME: 27106T RM Young_Stombo 12ft Boom 092921.iam

Stombo installation details:

1. Loosely install (2) through-bolts through the Stombo collar and boom.

- 2. Plumb the stub mast relative to the boom handles (sidemount)
- or relative to the crossarm level (guyed)
- 3. If (2) Stombos on one boom, ensure that Stombos are also
- plumb to one another
- 4. Tighten the Stombo set screw
- 5. With the set screw tight, torque the through-bolts to 25 ft-lbs, or until the collar squeezes to the boom pipe
- 6. Secure the sensor to the top of the mast.
- 7. If the cable routes externally to the mast, secure the cable to the
- DOWNWIND side of the mast
- 8. Tape the cable hole closed, if present

Thies wind vane alignment details:

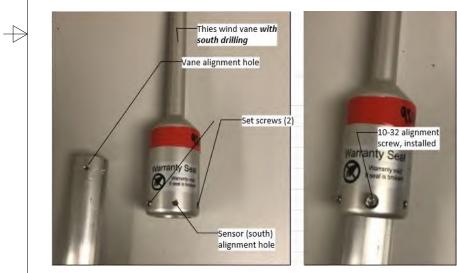
1. Install the Stombo with the stub mast alignment hole oriented towards the tower

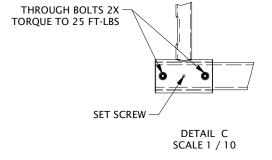
2. Thread the cable up the mast, secure to sensor, then place sensor loosely on the end of the Stombo

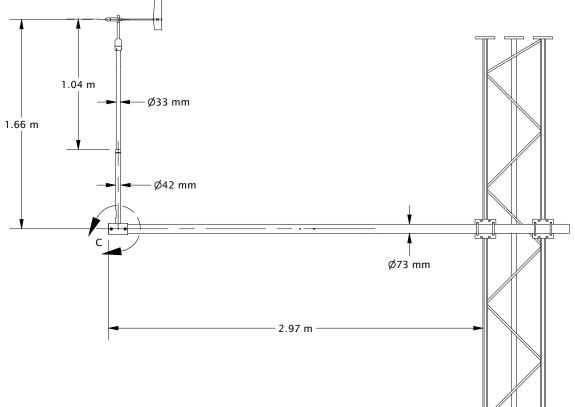
3. **Loosely** install the $\frac{1}{2}$ " 10-32 machine screw through the sensor alignment hole and thread it into the stub mast (DO NOT tighten this screw to secure the sensor)

4. Gradually tighten the two sensor socket set screws to secure the sensor, ensuring the sensor remains plumb to the mast

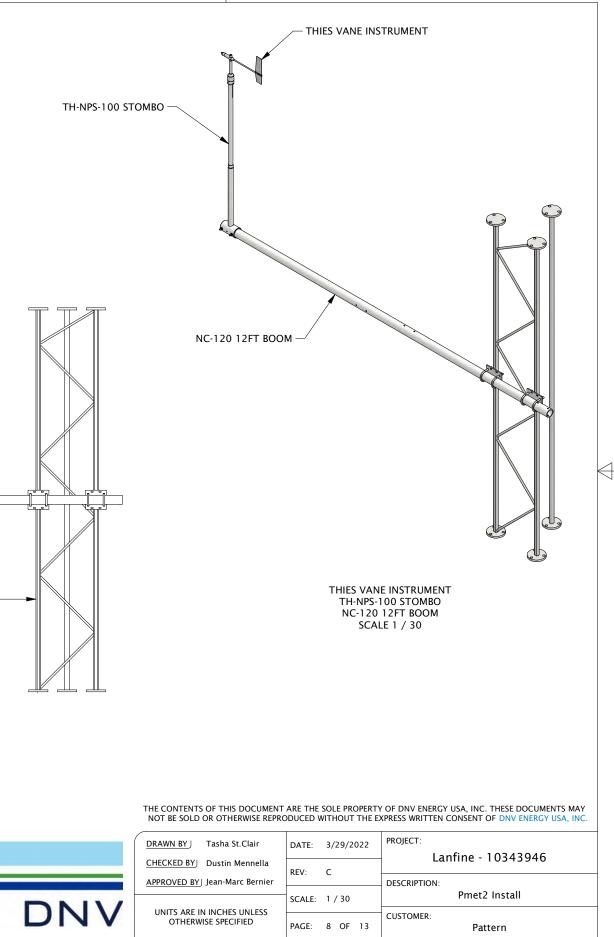
5. Tighten the 10-32 alignment screw just enough to ensure it will not fall out







4



DOCUMENT NAME: ThiesVane_Stombo_12ft Boom 111021.iam

Stombo installation details:

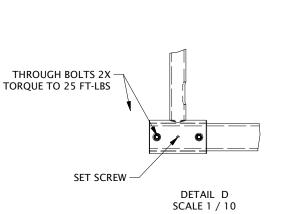
1. Loosely install (2) through-bolts through the Stombo collar and boom.

- 2. Plumb the stub mast relative to the boom handles (sidemount)
- or relative to the crossarm level (guyed)

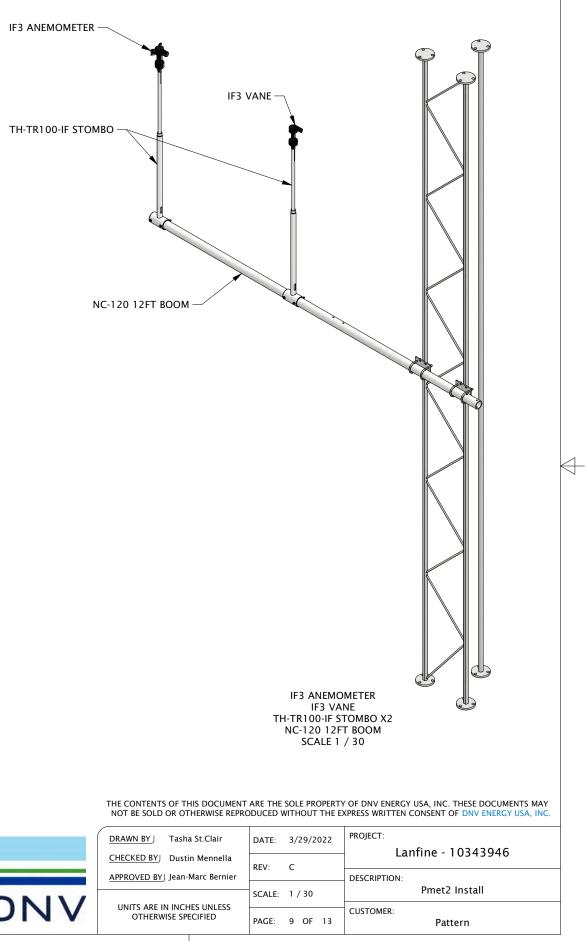
3. If (2) Stombos on one boom, ensure that Stombos are also plumb to one another

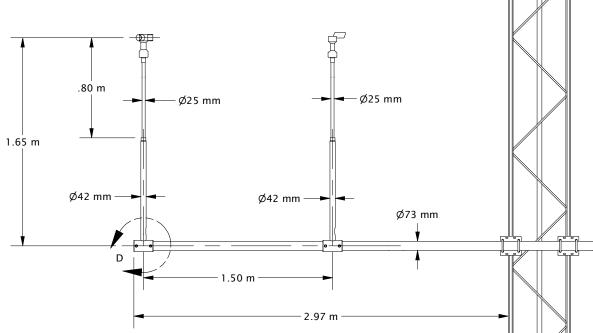
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- 4. Tighten the Stombo set screw
- 5. With the set screw tight, torque the through-bolts to 25 ft-lbs, or
- until the collar squeezes to the boom pipe
- 6. Secure the sensor to the top of the mast.
- 7. If the cable routes externally to the mast, secure the cable to the DOWNWIND side of the mast
- 8. Tape the cable hole closed, if present

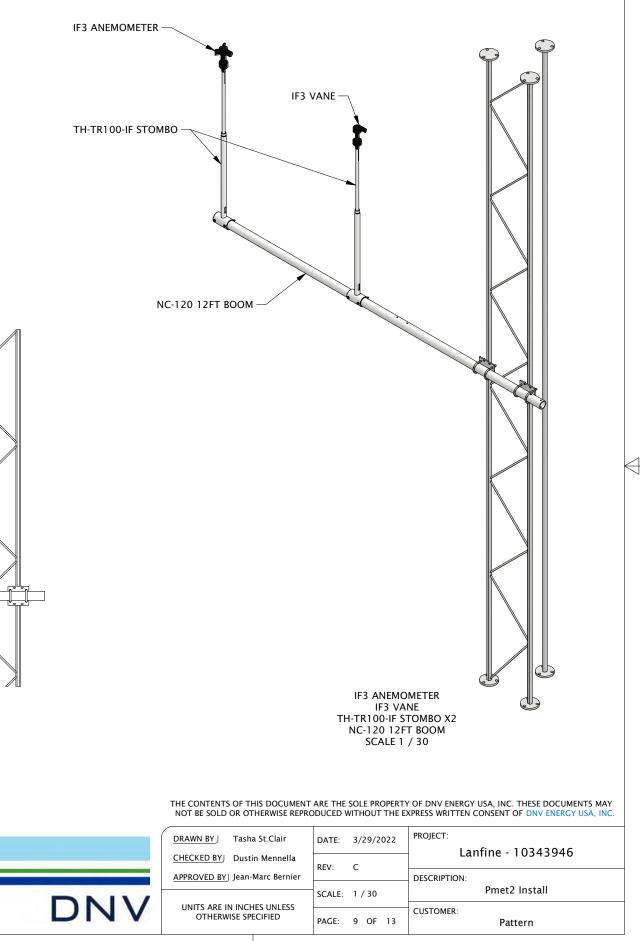


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DOCUMENT NAME: IF3 Vane_Ano_Stombo_12ft Boom 111621.iam

Stombo installation details:

1. Loosely install (2) through-bolts through the Stombo collar and boom.

2. Plumb the stub mast relative to the boom handles (sidemount) or relative to the crossarm level (guyed) 3. If (2) Stombos on one boom, ensure that Stombos are also plumb to one another

4. Tighten the Stombo set screw

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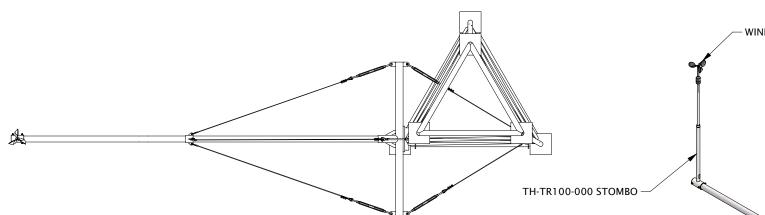
5. With the set screw tight, torque the through-bolts to 25

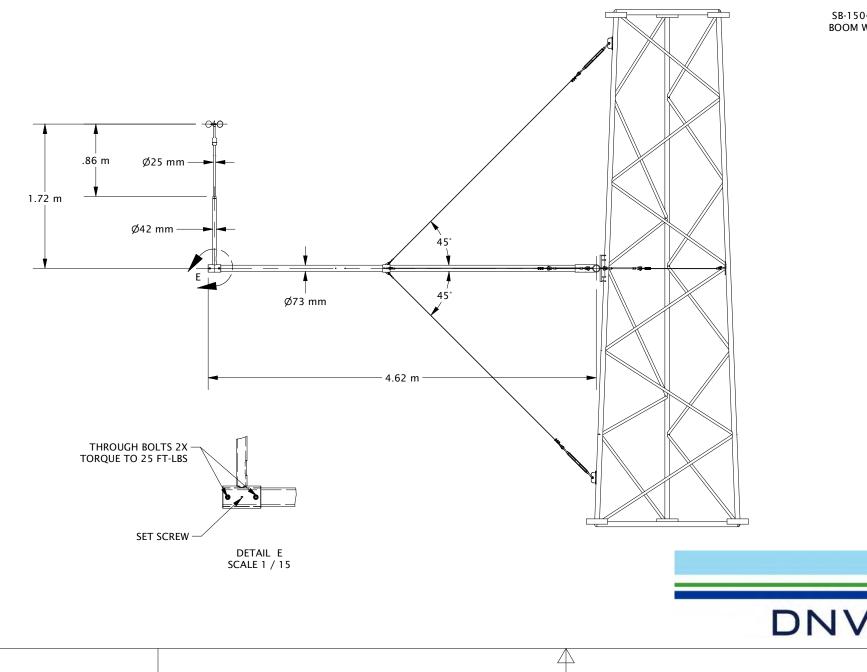
ft-lbs, or until the collar squeezes to the boom pipe

6. Secure the sensor to the top of the mast.

7. If the cable routes externally to the mast, secure the cable to the DOWNWIND side of the mast

8. Tape the cable hole closed, if present

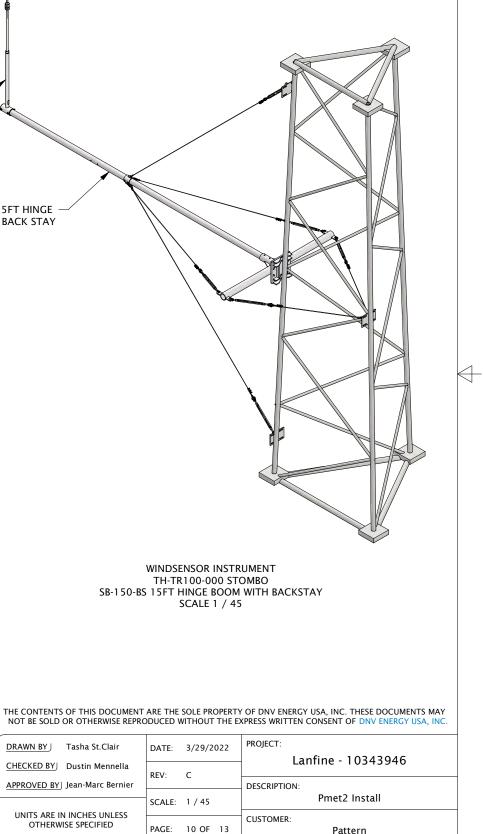




SB-150-BS 15FT HINGE BOOM WITH BACK STAY

OTHERWISE SPECIFIED

WINDSENSOR INSTRUMENT



DOCUMENT NAME: Windsensor_15ft Hinge Boom 032922.iam

Pattern

Stombo installation details:

1. Loosely install (2) through-bolts through the Stombo collar and boom.

2. Plumb the stub mast relative to the boom handles (sidemount) or relative to the crossarm level (guyed) 3. If (2) Stombos on one boom, ensure that Stombos are also plumb to one another

4. Tighten the Stombo set screw

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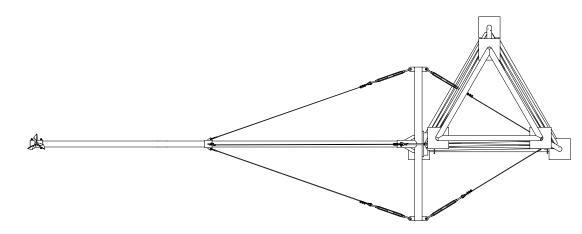
5. With the set screw tight, torque the through-bolts to 25

ft-lbs, or until the collar squeezes to the boom pipe

6. Secure the sensor to the top of the mast.

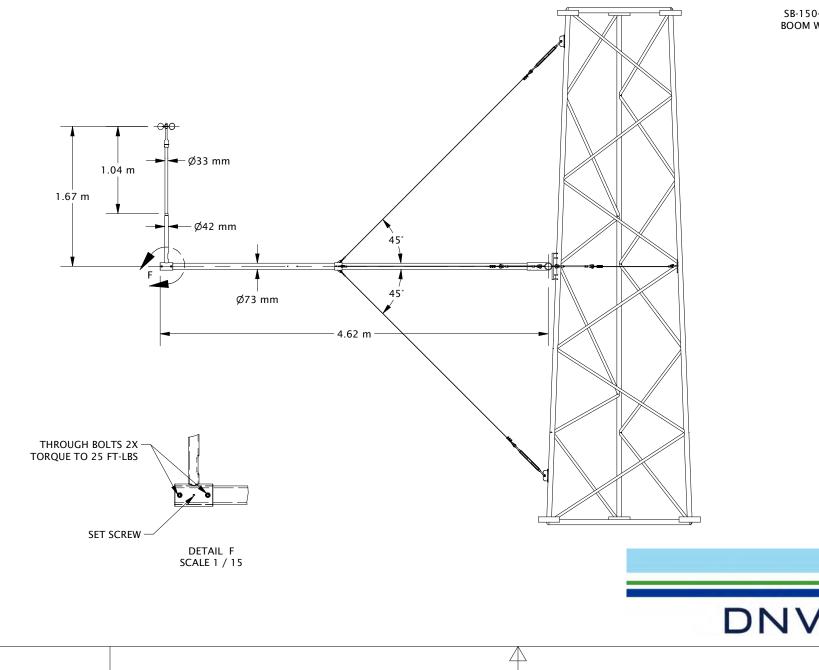
7. If the cable routes externally to the mast, secure the cable to the DOWNWIND side of the mast

8. Tape the cable hole closed, if present



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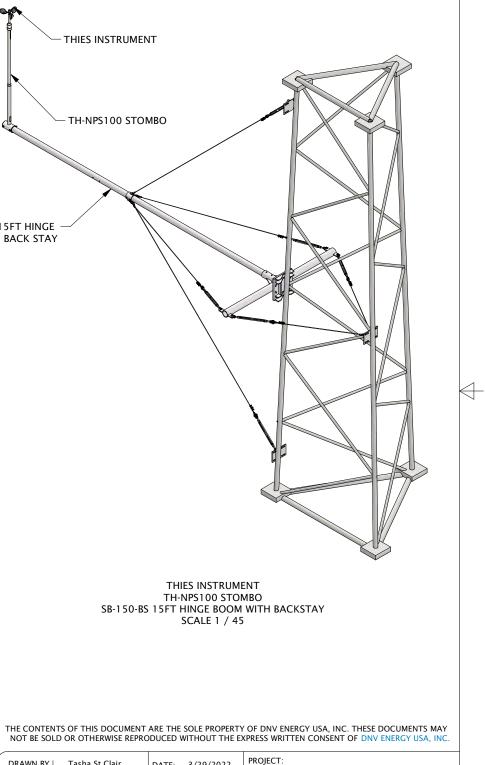
SB-150-BS 15FT HINGE -BOOM WITH BACK STAY



DRAWN BY J

CHECKED BY APPROVED BY

UNITS ARE I OTHERW



Dustin Mennella Lanfine - 10343946	
Y Jean-Marc Bernier DESCRIPTION:	
SCALE: 1/45 Pmet2 Install	
IN INCHES UNLESS WISE SPECIFIED PAGE: 11 OF 13 Pattern	

DOCUMENT NAME: Thies_Stombo_15ft Hinge Boom 111621.iam

Stombo installation details:

1. Loosely install (2) through-bolts through the Stombo collar and boom.

2. Plumb the stub mast relative to the boom handles (sidemount) or relative to the crossarm level (guyed) 3. If (2) Stombos on one boom, ensure that Stombos are also plumb to one another

4. Tighten the Stombo set screw

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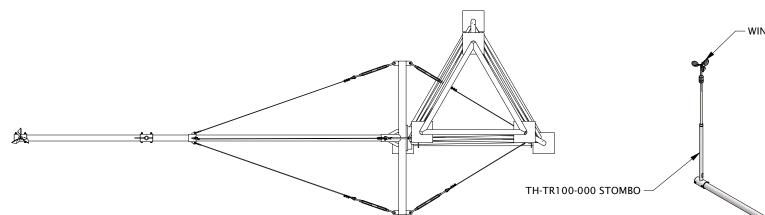
5. With the set screw tight, torque the through-bolts to 25

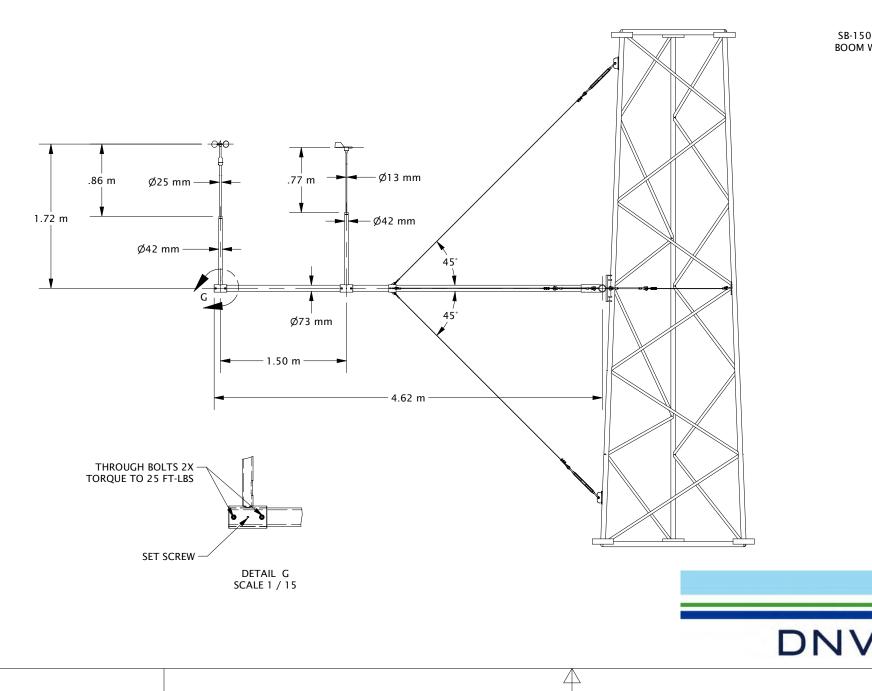
ft-lbs, or until the collar squeezes to the boom pipe

6. Secure the sensor to the top of the mast.

7. If the cable routes externally to the mast, secure the cable to the *DOWNWIND* side of the mast

8. Tape the cable hole closed, if present

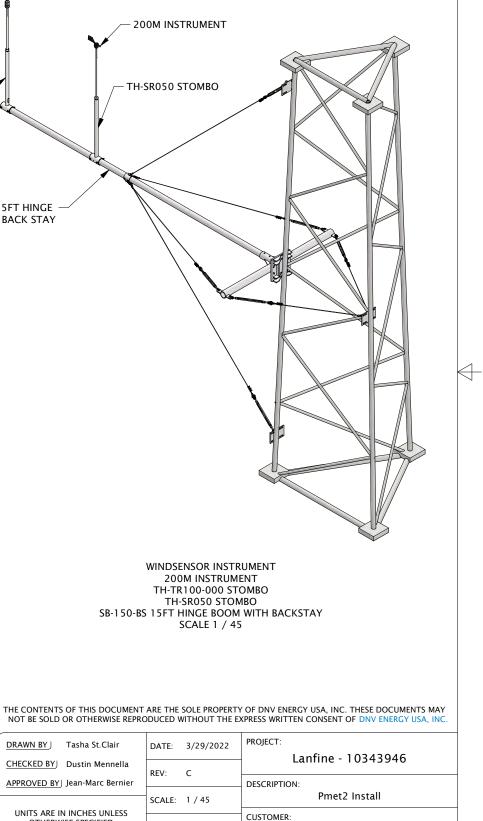




SB-150-BS 15FT HINGE BOOM WITH BACK STAY

PAGE: 12 OF 13

OTHERWISE SPECIFIED



DOCUMENT NAME: Windsensor_200m_Stombo_15ft Hinge Boom 032422.iam

Pattern

Stombo installation details:

1. Loosely install (2) through-bolts through the Stombo collar and boom.

2. Plumb the stub mast relative to the boom handles (sidemount) or relative to the crossarm level (guyed) 3. If (2) Stombos on one boom, ensure that Stombos are also plumb to one another

4. Tighten the Stombo set screw

5. With the set screw tight, torque the through-bolts to 25

ft-lbs, or until the collar squeezes to the boom pipe

6. Secure the sensor to the top of the mast.

7. If the cable routes externally to the mast, secure the cable to the *DOWNWIND* side of the mast

8. Tape the cable hole closed, if present

th drilling

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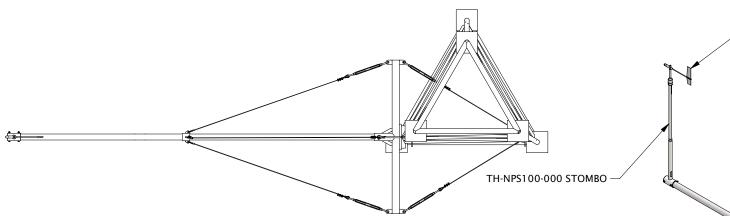
Thies wind vane alignment details:

1. Install the Stombo with the stub mast alignment hole oriented towards the tower

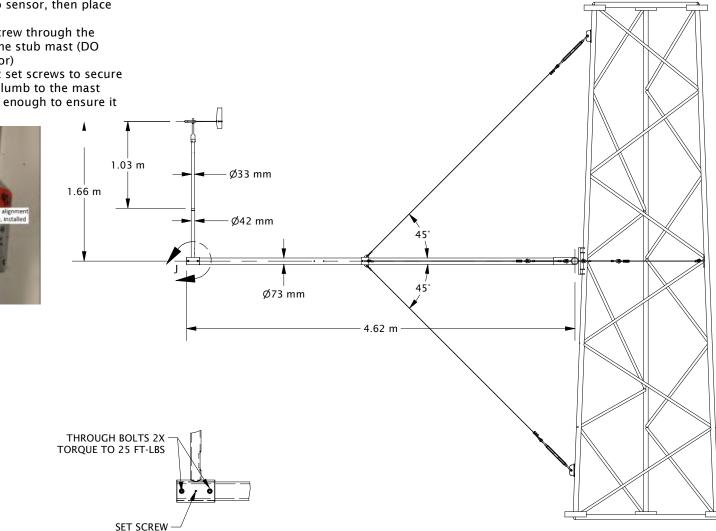
2. Thread the cable up the mast, secure to sensor, then place sensor loosely on the end of the Stombo

3. **Loosely** install the $\frac{1}{2}$ " 10-32 machine screw through the sensor alignment hole and thread it into the stub mast (DO NOT tighten this screw to secure the sensor) 4. Gradually tighten the two sensor socket set screws to secure the sensor, ensuring the sensor remains plumb to the mast

5. Tighten the 10-32 alignment screw just enough to ensure it will not fall out



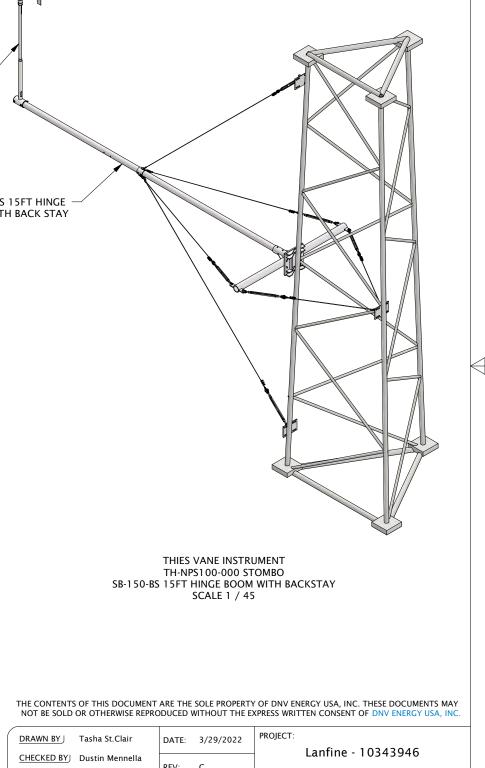
4



DETAIL J

SCALE 1 / 15

SB-150-BS 15FT HINGE -BOOM WITH BACK STAY



APPROVED BY

UNITS ARE I OTHERW

DNV



	REV:	C		
() Jean-Marc Bernier		<u> </u>		DESCRIPTION:
	SCALE:	1 / 45		Pmet2 Install
IN INCHES UNLESS WISE SPECIFIED				CUSTOMER:
WISE SPECIFIED	PAGE:	13 OF	13	Pattern

DOCUMENT NAME: ThiesVane_Stombo_15ft Hinge Boom 032922.iam







SETBACK TABLE

Heritage Prairie Wind - Livingston County SUP Application

Proposed Turbine Layout	Local Road Ordinance Required 702 feet (1.1x)	Overhead Distribution Line Ordinance Required 702 feet (1.1x)	Non-Participating Residence Ordinance Required 1,340 feet (2.1x)	Non-Participating Property Lines Ordinance Required 702 feet (1.1x)	Participating Residence Ordinance Required 702 feet (1.1x)	Community Building Ordinance Required 1,340 feet (1.1x)	IDNR: 300-foot Perennial Stream	IDNR: 1,000-foot Forested Area (>5ac), Forested Riparian
urbine Number	Project Setback	Project Setback	Project Setback	Project Setback	Project Setback	Project Setback	Project Setback	Project Setback
L2	1,732 1,709	1,683	2,212	1,764	5,607	20,011	9,238	10,5
L4 L5	1,709	1,715 1,631	1,913 2,522	848 1,048	1,765	13,718 20,577	9,563 6,925	12,48
L6	1,014	1,427	1,880		4,442	19,091	7,307	9,46
L9	715	1,099	1,833	751	4,214	11,713	10,199	9,7
L11	1,907	1,860	2,198	718	3,413	12,337	7,544	9,1
L13 L16	771	723 2.188	2,105	1,728	1,722	12,803 14,018	6,213 3.705	9,1
L17	1,324	1,853	1,896	723	2,557	16,041	5,219	10,1
L18	1,376	4,751	2,168	1,241	2,787	18,868	935	2,9
L20	1,492	1,445	2,017	706	4,682	16,759	2,620	8,7
L21 L24	<u>928</u> 711	1.801 722	<u>1,836</u> 1,819	897 761	7,390 4,304	20,196 18,152	1,063 3,388	<u>10,0</u> 9,2
L26	723	2,718	2,582	734	1,786	16,530	3,678	4,6
L27	764	774	1,473	1,216	3,264	19,023	4,998	6,4
L28	724	1,479	2,968	750	3,221	20,152	2,499	5,0
L29 L30	719 974	781	2,102	750	4,617	16,423 18,880	3,800 2.675	7,5
L30 L31	769	724	2,087	1,035	1,425	20,990	6,276	8,1
L32	1,936	1,938	2,138	817	2,552	20,688	6,229	6,7
L33	1,901	1,857	2,740	714	2,565	20,824	3,630	3,9
L34 L35	2,212 754	1,248 711	2,296	737	4,090 2,083	12,193 21,874	1,896 2,203	3,7 2,8
L37	943	946	2,040		1,864	21,492	4,851	4,8
L38	765	720	3,280	796	3,483	14,910	2,617	8,8
L39	737	719	1,787	765	3,541	19,393	1,935	5,
L40 L42	758	756	2,289	786	2,102	20,653 16,309	910 401	4,
L42 L43	746	1,411	3,429	779	1,695	23,238	1,545	1,5
L46	777	2,059	3,097	808	6,002	15,174	1,120	8,8
L47	1,253	1,204	1,888	720	2,763	24,747	4,391	4,4
L50 L56	756	763	4,529 2,407	753	5,048 2,601	13,478 23,321	568 316	7,9
L58	725	721	2,407	719	2,001	22,260	1,612	2,1
L60	728	727	2,805	753	6,133	14,558	1,315	5,
L61	768	717	2,626	804	4,571	3,692	4,203	3,4
L62 L63	1,900 1,090	1,971 1,048	2,344	719	3,157 1,303	8,227 20,294	2,719	3,
L64	1,551	2,513	3,115	1,129	3,198	3,627	4,889	4,
L65	1,725	1,687	2,312	910	2,331	19,801	3,401	4,6
L66	754	756	2,756	2,169	3,456	4,048	2,996	2,3
L68 L69	1,866 1,611	973 1,570	2,089 2,303	760 2,123	3,499 3,308	17,075	1,877 2,223	4,
L70	1,150	1,100	1,833	732	3,483	17,704	1,366	2,4
L71	1,606	1,616	2,340	1,086	1,972	8,008	986	2,4
L73	738	1,064	1,668	776	5,223	5,205	340	1,0
L74 L76	717	728	1,621 2,131	748	5,483 2,835	15,861 9,012	612 2,601	3.4
L77	1,542	1,492	1,417	997	4,329	13,318	2,621	2,5
L79	1,955	2,258	2,020	715	4,293	6,728	1,696	2,
L80	718	2,905	4,030	1,239	6,646	4,715	1,080	1,0
L81 L82	1,463 725	1,651 726	1,870	727	6,456 6,982	15,976 13,754	4,478 4.061	4,
L82 L86	725	3,230	3,239	758	3,838	7,725	3,742	3,
L87	719	3,665	3,508	720	7,705	5,217	1,478	1,4
L89	1,539	3,291	3,418	712	4,539	9,315	5,602	3,
L91 L95	1,829 749	3,512 708	3,300 1,362	736	8,178 1,664	7,643	3,524 6,314	3,
L95 L97	816	2,036	1,924	715	2,076	10,243	4,831	7,
L98	1,972	1,843	3,074	717	1,987	15,322	6,184	8,
L99	716	1,587	1,953	746	1,652	17,954	5,127	6,
L104 L105	2,002	1,874 1,401	1,832	721	2,389	20,126 18,190	1,477 1.445	2
L105 L106	1,447 1,095	1,401 1,371	2,458 1,831	1,423	4,032	18,190 20,342	2,193	4.
L107	764	1,949	1,840	722	8,711	11,064	2,269	2
L109	1,143	1,745	1,861	805	9,365	23,977	7,270	7
L110	707	985	2,528	737	5,317	18,240	2,689	10,
L111 L113	721 1,300	2,129 1,247	2,484	1,243 768	3,611 3,758	18,284 17,506	3,952 2,650	7,
L113 L120	1,300	1,247	2.110	1.037	3,758	17,506	2,650	12.
L121	978	1,454	1,521	1,149	3,042	17,424	9,765	12

GOOD NEIGHBOR AGREEMENT

WIND FARM NEIGHBOR EASEMENT AGREEMENT

This Wind Farm Neighbor Easement Agreement (this "<u>Easement Agreement</u>") is made, dated and effective as of _______, 20____ (the "<u>Effective Date</u>"), by and between ______ (together with their heirs, successors and assigns, collectively "<u>Owner</u>"), and Illinois Generation LLC, a Delaware limited liability company, its successors and assigns ("<u>Grantee</u>"). Owner and Grantee may hereafter be referred to herein individually as a "<u>Party</u>" and together as the "<u>Parties</u>."

RECITALS

A. Owner owns the real property legally described on **Exhibit A**, attached hereto and made a part hereof (the "<u>Owner's Property</u>").

B. Grantee has been developing an electric-generating wind power project in one or more phases (the "<u>Wind Farm</u>") in Livingston County (the "<u>County</u>"), Illinois (the "<u>Wind Farm</u>"). The Wind Farm may be built in one or more phases over a period of several years. Grantee expects that some of the wind turbine generators, including associated towers, foundations, and support structures (collectively the "<u>Generating Units</u>") and meteorological towers ("<u>Met Towers</u>") comprising one or more phases of the Wind Farm will be installed on land adjacent to or near the Owner's Property.

C. Although Grantee is taking commercially reasonable measures to minimize the side-effects of the operation and construction of the Wind Farm's Generating Units and other related facilities on property near or adjacent to the Wind Farm, including the Owner's Property, Owner understands and accepts that operation of Generating Units may have some impacts on the Wind Farm's neighbors, including the Owner's Property.

D. Grantee and Owner believe it is in their mutual best interest to enter into this Easement Agreement to document their expectations as to possible side effects of construction and operation of the Wind Farm. Also, although no Generating Units or other related facilities of the Wind Farm are planned for Owner's Property, Grantee wishes to obtain Effects, Sound and Shadow Easements (as hereinafter defined) from landowners who are neighbors of the Wind Farm for the benefit of the Wind Farm as an opportunity to provide Owner with certain economic benefits to accrue from operation of the Wind Farm.

Therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties, intending to be legally bound, hereby agree as follows:

AGREEMENT

1. <u>Effects, Sound and Non-Interference Easement</u>. Owner hereby grants to Grantee a non-exclusive easement over and across the Owner's Property and any adjacent property owned by Owner but not subject to this Agreement for any audio, visual, view, light, shadow, sound, flicker, vibration, air turbulence, wake, electromagnetic or other effect of any kind or nature whatsoever resulting, directly or indirectly, from the (a) construction, operations or activities of

any Wind Farm or (b) the facilities of any Wind Farm now or hereafter located on the Wind Farm Property (the "Effects, Sound and Shadow Easement"). Although Grantee is making commercially reasonable efforts in order to mitigate the effects of the Wind Farm on Owner's Property, Owner acknowledges, accepts, and waives any claims Owner may have on the basis of the Wind Farm (i) exceeding the sound limit levels effective as of the Effective Date of this Easement Agreement set by the Illinois Pollution Control Board by up to 2dB above such current limits (as shown on the Sound Level Limit Table included on **Exhibit C** attached hereto), and (ii) creating up to forty-five (45) hours per year of shadow flicker on any residence currently existing as of the Effective Date on Owner's Property. In the event that any governmental authority enacts any more restrictive law, statute, ordinance, or the like, related to either sound or shadow flicker (each, a "<u>Future Law</u>"), Owner and Grantee acknowledge and agree that Grantee shall be bound only by the terms of this Easement Agreement and that Owner waives, to the fullest extent possible, any claims Owner may have pursuant to such Future Law. Owner agrees to consult with and obtain Grantee's prior written approval, in Grantee's sole discretion, as to the location of all new structures greater than fortyfive (45) feet in height proposed for Owner's Property.

2. <u>Television Reception</u>. Owner hereby grants to Grantee the right to test television signal strength and reception at any residence existing as of the Effective Date hereof, on Owner's Property before and at reasonable intervals after Grantee builds the Wind Farm. In the unlikely event that the existence or operation of any Wind Farm significantly interferes with or degrades television signal reception at any existing residence on Owner's Property, Grantee shall, at its expense and with the full cooperation of Owner, promptly investigate and within a reasonable time correct any degradation of television signal reception actually caused by such Wind Farm. Correction measures may include, in Grantee's sole discretion, installation of television signal booster equipment on Owner's Property, installation of and payment for cable, dish TV or similar devices serving Owner's Property, or repair or replacement of television receivers.

3. <u>Construction Impact</u>. Grantee recognizes that Owner, due to the proximity of Owner's Property to gravel roads or construction areas, may be inconvenienced by construction sound and dust. Additionally, construction traffic in some areas may inconvenience Owner or require Owner to travel by unaccustomed routes to avoid construction traffic. Owner acknowledges Grantee has informed Owner of the potential impacts of construction and agrees the compensation provided in this Easement Agreement is adequate for the impacts described.

4. <u>Payment for Construction Impact and Easements</u>.

5. <u>Term</u>. The term of the Easements contained in this Easement Agreement ("<u>Term</u>") shall commence upon the Effective Date and shall end on the date that the Wind Farm is fully decommissioned, unless earlier terminated by the Grantee. Grantee shall have the right to terminate this Easement Agreement at any time and for any reason or no reason, by giving written notice of

termination to Owner. Upon termination of the Easements, Grantee shall file a termination of the Easements in the public records.

Participating Landowner. Owner affirms that, pursuant to entering into this 6. Easement Agreement, Owner is participating in the Project and Owner waives all setbacks that are able to be waived by participating and affected landowners pursuant to the Livingston County Ordinances effective as of the date that such Project receives its siting approval, including without limitation in Section 56-618(h) of the Livingston County Ordinances, which Livingston County Ordinances Owner has reviewed to the extent such ordinances relate to wind projects in the County. Owner acknowledges and agrees that Generating Units in the Wind Farm may be placed on property adjacent to Owner's Property up to One Thousand (1.000) feet away from Primary Structures existing on Owner's Property as of the Effective Date of this Easement Agreement, and up to Two Hundred Thirty (230) feet away from Owner's Property line. Further, Owner affirms that on behalf of itself and its officers, partners, members, directors, managers, employees, agents, successors and assigns, agrees that it will not in any way, directly or indirectly, oppose, or seek to hinder or delay and will not in any way, directly or indirectly, encourage, assist or provide cooperation to others who oppose or seek to hinder or delay: (i) the processing and issuance of entitlements, permits, approvals or other determinations for the development, use, and operation of the Wind Farm; (ii) ordinances, permits, approvals or determinations in any way related to the construction of public works, and/or offsite improvements related to the Wind Farm; (iii) financial or any other agreements with governing agencies; or (iv) any modification, renewal, extension, or amendment of any of the foregoing.

7. <u>Mortgages and Assignment</u>. Grantee may, without Owner's consent or approval, mortgage, collaterally assign, or otherwise encumber and grant security interests in all or any part of its interest in this Easement Agreement and/or the Easements which said security interests in all or a part of this Easement Agreement and/or the Easements are collectively referred to herein as "Mortgages" and the holders of the Mortgages, their designees and assigns are referred to herein as "Mortgagees." Grantee shall also have the right without Owner's consent to sell, convey, lease or assign all or any portion of the Easement Agreement and/or the Easements, separate easements, leases, licenses or similar rights, however denominated, (collectively, "<u>Assignments</u>") to one or more persons or entities (collectively, "<u>Assignees</u>"). Under no circumstances shall any Mortgagee or Assignee have any greater rights of ownership or use of the Easements than the rights granted to Grantee in this Easement Agreement. Any member or constituent owner of a Grantee shall have the right without Owner's consent to transfer any membership interest in Grantee to one or more persons or entities.

8. <u>Default</u>. If Grantee fails to perform its obligations hereunder (an "<u>Event of</u> <u>Default</u>"), then it shall not be in default hereunder unless it fails to cure such Event of Default within sixty (60) days after receiving written notice from Owner stating with particularity the nature and extent of such Event of Default and specifying the method of cure (a "<u>Notice of</u> <u>Default</u>"); provided, however, that if the nature or extent of the obligation or obligations is such that more than sixty (60) days are required, in the exercise of commercially reasonable diligence, for performance of such obligation(s), then Grantee shall not be in default if it commences such performance with such sixty (60) day period and thereafter pursues the same to completion with commercially reasonable diligence.

9. <u>Estoppel Certificates</u>. Owner shall execute estoppel certificates (certifying as to truthful matters, including without limitation that no default then exists under this Easement Agreement, if such be the case), consents to assignment and non-disturbance agreements as Grantee or any Mortgagee may reasonably request at any time and from time to time. Owner and Grantee shall cooperate in executing any documents which may reasonably be required by Grantee or a Mortgagee. Owner shall request any of Owner's lenders to execute an agreement of subordination or non-disturbance from any Mortgagee with respect to Grantee's interest in the Owner's Property.

10. <u>Overburdening</u>. Owner hereby agrees that (i) no use of or improvement to Owner's Property permitted by this Easement Agreement and (ii) no apportionment, Assignment or granting of a subeasement thereof shall, separately or in the aggregate, constitute an overburdening of the Easements.

11. <u>Covenants Running with the Land</u>. The Parties hereby agree that all of the covenants and agreements contained in this Easement Agreement touch and concern the real estate described in this Easement Agreement and are expressly intended to, and shall, be covenants running with the land and shall be binding and a burden upon Owner's Property and each Parties' present or future estate or interest herein and upon each of the Parties, their respective heirs, administrators, executors, legal representatives, successors and assigns as holders of an estate or interest in the Owner's Property (including without limitation, any Mortgagee, lender or other person acquiring title from any such person upon foreclosure or by deed in lieu of foreclosure), and shall benefit Grantee and its respective heirs, administrators, executors, legal representatives, successors and assigns and the Wind Farm Property.

12. <u>Further Acts and Assurances</u>. Each Party hereby agrees that it shall execute such additional documents or instruments and shall undertake such actions as are necessary and appropriate to effectuate the intent of this Easement Agreement, including in the case of Owner, such additional documents as may be reasonably required by any Mortgagees and Assignees.

13. <u>Entire Agreement</u>. This Easement Agreement constitutes the entire agreement between Owner and Grantee and no promises or representatives, express or implied, either written or oral, not herein set forth shall be binding upon or inure to the benefit of Owner and Grantee. This Easement Agreement shall not be modified by any oral agreement, either express or implied, and all modifications hereof shall be in writing and signed by both Owner and Grantee.

14. <u>Remedies</u>. If Grantee violates the terms or conditions of this Easement Agreement, Owner shall be entitled to any remedy available under applicable law or equity, subject to the default provisions contained herein; provided, however, that no such default shall result in a termination of the Easements granted by this Easement Agreement. The Easements shall not be terminable by Owner under any circumstances. If Owner violates the terms or conditions of this Easement Agreement, Grantee shall be entitled to any remedy available under applicable law or equity. Grantee shall have the right to terminate this Easement Agreement at any time, by giving written notice of termination to the Owner. TO THE FULLEST EXTENT PERMITTED BY LAW, AND NOTWITHSTANDING ANY OTHER PROVISIONS IN THIS AGREEMENT, NEITHER PARTY SHALL BE LIABLE TO THE OTHER PARTY OR ITS AFFILIATES, AND THE PARTIES HEREBY WAIVE AND RELEASE ALL CLAIMS, FOR ANY SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL, PUNITIVE OR EXEMPLARY DAMAGES, WHETHER OR NOT FORESEEABLE, ARISING OUT OF OR IN CONNECTION WITH THIS AGREEMENT, WHETHER BASED ON BREACH OF CONTRACT OR WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY), OR OTHER BASES OF LIABILITY, SUCH DAMAGES INCLUDE, WITHOUT LIMITATION, LOSS OF PROFITS, REVENUE, INTEREST, OPPORTUNITY, GOODWILL, USE OF PROPERTY CAPITAL, OR FINANCING COSTS.

15. <u>Severability and Parties Bound</u>. The enforceability, invalidity, or illegality of any provisions of this Easement Agreement shall not render the other provisions hereof unenforceable, invalid or illegal. This Easement Agreement shall be binding upon and inure to the benefit of the heirs, executors, administrators, successors and the assigns of the respective Parties hereto. This Easement Agreement shall be deemed an interest in and encumbrance upon the Owner's Property which shall run with the land and shall be binding upon the Owner's Property and Owner and its successors and assigns in interest to Owner's Property. Upon transfer of Owner's interest in Owner's Property, or the interest of Grantee in this Easement Agreement, the transferring party shall be deemed released from further obligation or liability hereunder as to matters first arising after such transfer.

16. <u>Notices</u>. Any notice to be given hereunder or which either Party wishes to give to the other shall be in writing and may be delivered either (i) personally to the other or (ii) given by mailing by depositing the same in the U.S. Mail, with all postage and certification charges thereon prepaid, with return receipt requested or (iii) via nationally recognized overnight courier (i.e., UPS, Federal Express), in a sealed envelope, addressed as follows:

If to Owner:

Attention:	
Telephone:	
Email:	

If to Grantee:

Illinois Generation LLC 1088 Sansome Street San Francisco, California 94111 Attention: General Counsel

With a copy, which shall not constitute notice, to: generalcounsel@patternenergy.com

or to such other address as either Party shall hereafter specify by written notice to the other. Any notice shall be deemed delivered three days after deposit in the mail in accordance with the foregoing provision.

17. <u>Municipal Officer Representation</u>. Owner represents and warrants that Owner is not a "Municipal Officer" of the municipality in which Owner's Property is located. "<u>Municipal Officer</u>" means any officer or employee of the municipality or county, whether paid or unpaid, and includes, without limitation, members of any office, board, body, advisory board, council, commission, agency, department, district, administration, division, bureau or committee of the municipality or county whose official duties involve discretionary decision-marking with respect to the Grantee's "Energy Development." "<u>Energy Development</u>" means any stage of present or future development or siting of energy developments, turbines, power and related facilities or energy projects, whether considered, planned, attempted or completed, including but not limited to permitting, licensing construction and energy production. "Municipal Officer" also includes any entity that is directly or indirectly controlled by, or is under common control with, such officer or employee.

However, "Municipal Officer" shall not include: (a) a judge, justice, officer or employee of the unified court system; (b) a volunteer firefighter or civil defense volunteer, except a fire chief or assistant fire chief; or (c) a member of an advisory board of the municipality or county if, but only if, the advisory board has no authority to implement its recommendations or to act on behalf of the municipality or county or to restrict authority of the municipality or county to act.

Owner further represents and warrants that Owner is not a "Relative" of a "Municipal Officer." "<u>Relative</u>" shall be defined as a spouse or domestic partner of the Municipal Officer, or a person claimed as a dependent on a Municipal Officer's latest individual state income tax return. Owner agrees to promptly notify Grantee in writing if at any time it becomes or any Relative becomes a "Municipal Officer." Owner agrees to indemnify Grantee against any loss, liability or damages, including attorneys' fees, directly or indirectly resulting from any misrepresentation by Owner or failure by Owner to notify Grantee as set forth above under this section.

18. <u>Waiver</u>. The waiver of any covenant, condition, or agreement contained herein shall not vitiate this Easement Agreement or any of the Easements, terms, covenants, conditions or provisions herein. The waiver of the time for performing any act shall not constitute a waiver of the time for performing any other act or any identical act required to be performed at a later time.

19. <u>Governing Law</u>. This Easement Agreement shall be governed by the law of the State of Illinois.

20. <u>Jury Trial Waiver</u>. Each Party knowingly, voluntarily and intentionally waives its right to a trial by jury with respect to any litigation based on, arising out of, under, relating to or in connection with this Easement Agreement.

21. <u>Counterparts</u>. This Easement Agreement may be executed in counterparts, each of which shall be deemed an original and all of which when taken together shall constitute one and the same document.

22. <u>Confidentiality</u>. Owner shall not disclose to others (except Owner's family, legal counsel, prospective Mortgagees and Assignees, and financial advisors who recognize and agree to preserve and maintain the confidentiality of such information) the terms of this Easement Agreement or any other confidential or proprietary information of Grantee provided to or ascertained by Owner.

23. <u>Memorandum</u>. The Parties agree Grantee may record the memorandum of this Easement Agreement attached as **Exhibit D** in the Official Public Records of Livingston County, Illinois and that this Easement Agreement shall not be recorded.

SIGNATURES TO FOLLOW ON NEXT PAGE

IN WITNESS WHEREOF, Owner and Grantee have caused this Easement Agreement to be executed and delivered effective as of the Effective Date.

OWNER:

GRANTEE:

a	,	Illinois Generation LLC, a Delaware limited liability company
By: Name: Title:		By: Name: Title:

[AND/OR]

[SPOUSE:

By:	
Name:	

Spouse is joining in the execution of this Easement Agreement for the sole purpose of waiving any rights he or she may have under or by virtue of the Homestead Exemption Laws of the State of Illinois pursuant to 735 ILCS 5/12-904.]

EXHIBIT A

LEGAL DESCRIPTION OF OWNER'S PROPERTY

PIN(s):

Commonly Known As:

EXHIBIT B

PAYMENT SCHEDULE

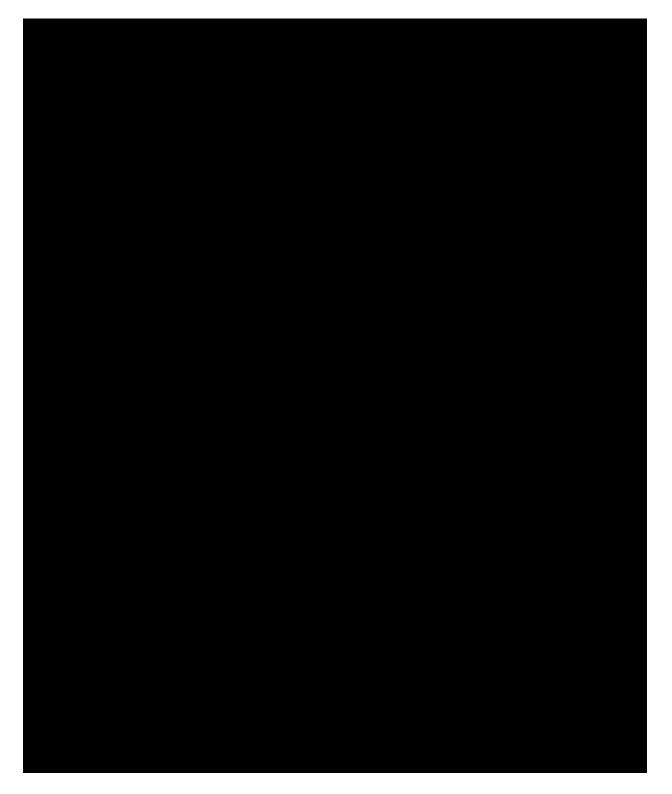


EXHIBIT C

PROJECT SOUND LEVEL LIMITS

Sound Level				S	ound P	ressure	Level (d	iB)		
Limit	Time	31.5	63	125	250	500	1000	2000	4000	8000
c1	Daytime	75	74	69	64	58	52	47	43	40
Class C to A	Nighttime	69	67	62	54	47	41	36	32	32

Table 3-1: IAC Title 35 Sound Level Limits

Source: Amended at 30 Ill. Reg.5533, effective March 10, 2006

*Daytime hours are defined as the period between 7:00 AM and 10:00 PM; nighttime hours are defined as the period between 10:00 PM and 7:00 AM.

Pursuant to <u>Section 1</u> of this Easement Agreement, and regardless of any Future Law, Owner acknowledges, accepts and waives any claims Owner may have on the basis of the Wind Farm exceeding the sound level limits set by the Illinois Pollution Control Board which are effective as of the Effective Date of this Easement Agreement, by up to 2dB above the relevant limits, as such limits are shown above.

EXHIBIT D

FORM OF MEMORANDUM OF WIND FARM NEIGHBOR EASEMENT AGREEMENT

RECORDING RETURN TO:	
Illinois Generation LLC 888 Westheimer Road, Suite 350 Houston, TX 77006 Attention: Real Estate Legal Department	

(For Recorder's Use Only)

MEMORANDUM OF WIND FARM NEIGHBOR EASEMENT AGREEMENT

(together with their heirs, successors and assigns, collectively "<u>Owner</u>"), and Illinois Generation LLC, a Delaware limited liability company, its successors and assigns ("<u>Grantee</u>"), have executed a Wind Farm Neighbor Easement Agreement ("<u>Easement Agreement</u>") and have agreed to record this memorandum ("<u>Memorandum</u>") solely to give notice of the existence of the Easement Agreement. This Memorandum does not amend, supplement or supersede the Easement Agreement, which will govern if any provision of this Memorandum conflicts with or is inconsistent with any provision of the Easement Agreement.

1. <u>Easements and Other Provisions.</u> The Easement Agreement includes a grant of Effects, Sound and Non-Interference Easements in connection with a commercial wind power project ("<u>Wind Farm</u>") affecting Owner's Property, which Property is described on the attached <u>Exhibit A</u>. The Easement Agreement also includes provisions regarding construction impacts and television reception.

2. <u>Term</u>. The Easements and other agreements contained in the Easement Agreement run with the land. The term of the Easement Agreement and the Easements ("<u>Term</u>") began on _______, 20____(the "<u>Effective Date</u>") and shall end on the date that the Wind Farm is fully decommissioned, unless earlier terminated by the Grantee. Grantee shall have the right to terminate the Easement Agreement at any time, and for any reason or no reason, by giving written notice of termination to Owner.

3. <u>Mortgages and Assignments</u>. Grantee may, upon notice to Owner, but without need to obtain Owner's consent or approval: (i) mortgage, collaterally assign, or otherwise encumber and grant security interests in all or any part of its interest in the Easement Agreement and the Easements; and (ii) assign or otherwise convey all or part of its interest in this Easement Agreement and the Easement to third parties. Owner may sell, mortgage, assign or convey away all or a part

of Owner's interest in Owner's Property without the consent of Grantee, but any conveyance shall be subject to the terms of the Easement Agreement.

4. <u>Notices</u>. All written notices and demands of any kind which either party may be required or may desire to serve upon the other party in connection with this Easement Agreement may be served by (i) personal service, (ii) registered or certified U.S. mail or (iii) next day overnight delivery service via a nationally recognized overnight courier such as UPS or Federal Express. Any such notice or demand shall be addressed to the other party at the mailing address(es) for such Party listed below. Service of any such written notice or demand shall be deemed complete (i) upon receipt in the event of personal service, (ii) on the second (2nd) business day after it is sent via registered or certified U.S. mail, and (iii) on the next business day if sent via an overnight delivery service. All such written notices and demands sent via registered or certified U.S. mail or overnight delivery service shall be sent postage, pre-paid by the sender in order for it to be considered in compliance with this <u>Section 4</u>.

To Owner:

Attention:	
Telephone:	
Email:	

To Grantee:

Illinois Generation LLC 1088 Sansome Street San Francisco, California 94111 Attention: General Counsel

With a copy which shall not constitute notice to: <u>generalcounsel@patternenergy.com</u>

Any party, by written notice to the other party, may change its mailing address(es), provided that the other party shall not be bound by any such different address(es) unless and until it receives same.

5. <u>Counterparts</u>. This Memorandum may be executed in multiple counterparts, each of which shall be deemed an original and all of which when taken together shall constitute one and the same document.

[Signature Pages Follow]

EXECUTED AND MADE EFFECTIVE as of the Effective Date.

OWNER:

		a		_,
		By: Name: Title:		
		[AND/OR]		
				_
STATE OF			-	
COUNTY OF				
This instrument was acknowledg	ged befor [as	re me on	_, 20	_ by _ _ of _
(Seal)		(Signature of Notary Public)		_
STATE OF				
COUNTY OF				
This instrument was acknowled	ged befor	re me on	<u>,</u> 20	_by_
].	[as			_ 01 _

[SPOUSE:

By: ______ Name: ______

Spouse is joining in the execution of this Memorandum for the sole purpose of waiving any rights he or she may have under or by virtue of the Homestead Exemption Laws of the State of Illinois pursuant to 735 ILCS 5/12-904.

STATE OF _____

COUNTY OF _____

------•

This instrument was acknowledged before me on _____, 20___ by ____

(Signature of Notary Public)

(Seal)]

<u>GRANTEE</u>:

Illinois Generation LLC, a Delaware limited liability company

By:	
Name:	
Title:	

STATE OF TEXAS

COUNTY OF

This instrument was acknowledged before me on _____, 20___ by ____

______, a _______, of Illinois Generation LLC on behalf of Illinois Generation LLC, a limited liability company.

Notary Public, State of Texas My commission expires:_____

EXHIBIT A

Property Description

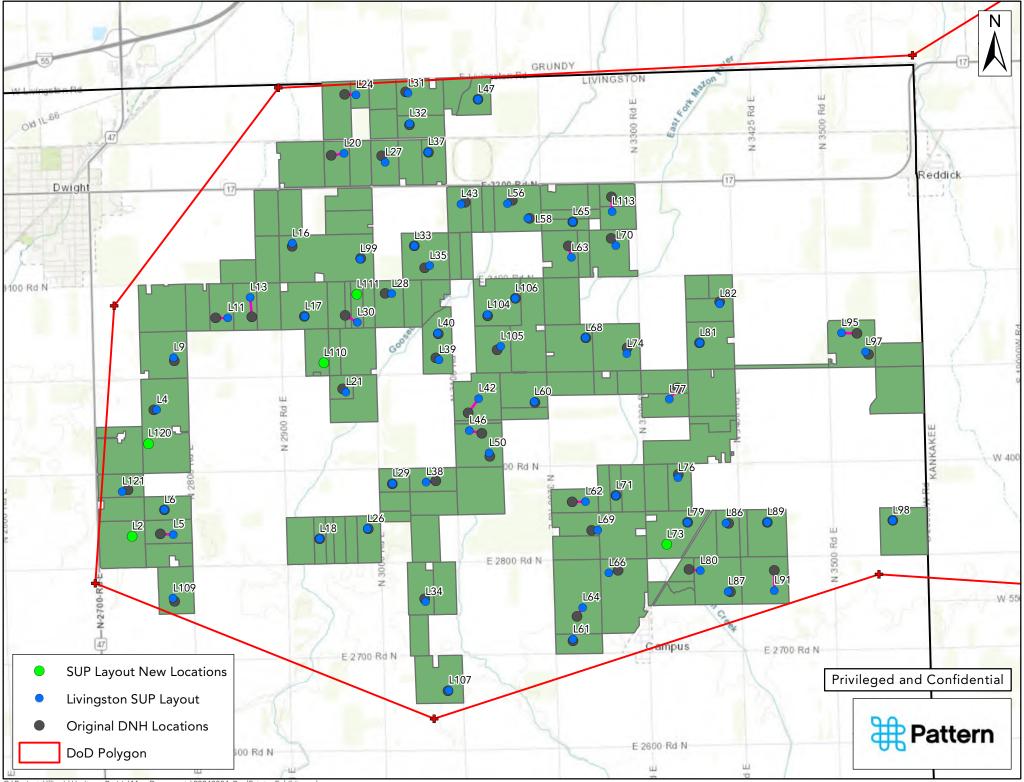
PIN(s):

Commonly Known As:

FAA COMPLIANCE

Heritage Prairie Wind - Livingston County SUP Application Determination of No Hazard - Turbines Submitted

Current ID	Latitude	Longitude	Prior ID
L2	41°02′27.24″N	88°24′41.46″W	NEW
L4	41°03′37.89″N	88°24′23.48″W	L4
L5	41°02′28.32″N	88°24′11.12″W	L5
L6	41°02′42.16″N	88°24′17.62″W	L6
L9	41°04′06.92″N	88°24′10.85″W	L9
L11	41°04'29.18"N	88°23'31.09"W	L11
L13	41°04′40.61″N	88°23′14.71″W	L13
L16	41°05′10.80″N	88°22′43.60″W	L16
L17	41°04′30.01″N	88°22′34.42″W	L17
L18	41°02′25.96″N	88°22′23.44″W	L18
L20	41°06′00.80″N	88°22′05.65″W	L20
L21	41°03′47.75″N	88°22′04.19″W	L21
L24	41°06′33.59″N	88°21′56.67″W	L24
L26 L27	41°02'31.56"N 41°05'55.88"N	88°21'48.36"W 88°21'35.20"W	L26 L27
L27	41°04′42.65″N	88°21'33.20 W	L27 L28
L28 L29	41°02′56.75″N	88°21′29.63″W	L28
L20	41°04′26.74″N	88°21′55.67″W	L23
L30	41°06′34.47″N	88°21′18.36″W	L31
L31	41°06′17.53″N	88°21′17.22″W	L32
L32	41°05′09.38″N	88°21′13.68″W	L32
L34	41°01′50.88″N	88°21′05.30″W	L34
L35	41°04′58.17″N	88°21′02.31″W	L35
L37	41°06′01.57″N	88°21′03.53″W	L37
L38	41°02′57.63″N	88°21′04.90″W	L38
L39	41°04′05.86″N	88°20′55.58″W	L39
L40	41°04′20.57″N	88°20′56.51″W	L40
L42	41°03′44.20″N	88°20′26.24″W	L42
L43	41°05′32.72″N	88°20'39.34"W	L43
L46	41°03′26.40″N	88°20'33.21"W	L46
L47	41°06′31.00″N	88°20′26.73″W	L47
L50	41°03′13.87″N	88°20′18.46″W	L50
L56	41°05′32.88″N	88°20′05.20″W	L56
L58	41°05′24.58″N	88°19′49.94″W	L58
L60	41°03′42.48″N	88°19′45.25″W	L60
L61	41°01′29.97″N	88°19′16.82″W	L61
L62 L63	41°02'46.78"N 41°05'02.82"N	88°19′07.55″W 88°19′17.87″W	L62 L63
L64	41°01′47.79″N	88°19'17.87 W	L63
L65	41°05′22.73″N	88°19'17.07"W	L65
L66	41°02′07.06″N	88°18′50.29″W	L73
L68	41°04′18.11″N	88°19′07.68″W	L68
L69	41°02′30.93″N	88°18′58.55″W	L69
L70	41°05′09.50″N	88°18′45.21″W	L70
L71	41°02′50.13″N	88°18′45.27″W	L71
L73	41°02′22.93″N	88°18′07.71″W	NEW
L74	41°04′09.17″N	88°18′37.12″W	L74
L76	41°03'00.05"N	88°17′59.42″W	L76
L77	41°03′43.76″N	88°18′05.74″W	L77
L79	41°02′35.13″N	88°17′52.41″W	L79
L80	41°02′08.26″N	88°17′43.04″W	L80
L81	41°04′15.19″N	88°17′43.38″W	L81
L82	41°04′37.01″N	88°17′28.89″W	L82
L86	41°02′34.83″N	88°17′24.20″W 88°17′22.61″W	L86
L87 L89	41°01′56.63″N 41°02′35.30″N	88°17'22.61"W 88°16'53.74"W	L87 L89
L89 L91	41 02 35.30 N 41°01′57.16″N	88 16 53.74 W 88°16'48.59"W	L89 L91
L91 L95	41°04′20.72″N	88°15′59.00″W	L91 L95
L97	41°04′10.22″N	88°15′41.26″W	L97
L98	41°02′36.19″N	88°15′21.41″W	L98
L99	41°05′01.94″N	88°21′53.54″W	Alt-L99
L104	41°04′30.87″N	88°20'20.00"W	Alt-L104
L105	41°04′13.24″N	88°20′10.05″W	Alt-L100
L106	41°04′40.12″N	88°19′59.34″W	L55
L107	41°01′01.56″N	88°20'48.09"W	L107
L109	41°01′52.87″N	88°24′11.30″W	L109
L110	41°04′04.21″N	88°22′20.50″W	NEW
1 1 4 4 4		00004/56 40/04/	NIE14/
L111	41°04′42.35″N	88°21′56.19″W	NEW
L113	41°05′28.37″N	88°18′47.91″W	L72
	41°05′28.37″N 41°03′19.03″N		



G:\Projects\Illinois\Heritage Prairie\Map Documents\20240304_RealEstate_Exhibit.mxd

Aeronautical Study No. 2022-WTE-3394-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L4
Location:	Dwight, IL
Latitude:	41-03-37.88N NAD 83
Longitude:	88-24-25.61W
Heights:	642 feet site elevation (SE)
	698 feet above ground level (AGL)
	1340 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X__ At least 60 days prior to start of construction (7460-2, Part 1) __X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

See attachment for additional condition(s) or information.

While the structure does not constitute a hazard to air navigation, it would be located within or near a military training area and/or route.

This determination expires on 09/16/2024 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is subject to review if an interested party files a petition that is received by the FAA on or before April 15, 2023. In the event an interested party files a petition for review, it must contain a full statement of the basis upon which the petition is made. Petitions can be submitted to the Manager of the Rules and Regulations Group via e-mail at OEPetitions@faa.gov, via mail to Federal Aviation Administration, Air Traffic Organization, Rules and Regulations Group, Room 425, 800 Independence Ave, SW, Washington, DC 20591, or via facsimile (202) 267-9328. FAA encourages the use of email to ensure timely processing.

This determination becomes final on April 25, 2023 unless a petition is timely filed. In which case, this determination will not become final pending disposition of the petition. Interested parties will be notified of the grant of any review. For any questions regarding your petition, please contact Rules and Regulations Group via telephone - 202-267-8783.

This determination is based, in part, on the foregoing description which includes specific coordinates and heights. This determination is valid for coordinates within one (1) second latitude/longitude and up to the approved AMSL height listed above. If a certified 1A or 2C accuracy survey was required to mitigate an adverse effect, any change in coordinates or increase in height will require a new certified accuracy survey and may require a new aeronautical study.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. All information from submission of Supplemental Notice (7460-2 Part 2) will be considered the final data (including heights) for this structure. Any future construction or alteration, including but not limited to changes in heights, requires separate notice to the FAA.

Obstruction marking and lighting recommendations for wind turbine farms are based on the scheme for the entire project. ANY change to the height, location or number of turbines within this project will require a reanalysis of the marking and lighting recommendation for the entire project. In particular, the removal of previously planned or built turbines/turbine locations from the project will often result in a change in the marking/lighting recommendation for other turbines within the project. It is the proponent's responsibility to contact the FAA to discuss the process for developing a revised obstruction marking and lighting plan should this occur.

In order to ensure proper conspicuity of turbines at night during construction, all turbines should be lit with temporary lighting once they reach a height of 200 feet or greater until such time the permanent lighting configuration is turned on. As the height of the structure continues to increase, the temporary lighting should be relocated to the uppermost part of the structure. The temporary lighting may be turned off for periods when they would interfere with construction personnel. If practical, permanent obstruction lights should be installed and operated at each level as construction progresses. An FAA Type L-810 steady red light fixture shall be used to light the structure during the construction phase. If power is not available, turbines shall be lit with self-contained, solar powered LED steady red light fixture that meets the photometric requirements of an FAA Type L-810 lighting system. The lights should be positioned to ensure that a pilot has an unobstructed view of at least one light at each level. The use of a NOTAM (D) to not light turbines within a project until the entire project has been completed is prohibited.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

This aeronautical study considered and analyzed the impact on existing and proposed arrival, departure, and en route procedures for aircraft operating under both visual flight rules and instrument flight rules; the impact on all existing and planned public-use airports, military airports and aeronautical facilities; and the cumulative impact resulting from the studied structure when combined with the impact of other existing or proposed structures. The study disclosed that the described structure would have no substantial adverse effect on air navigation.

An account of the study findings, aeronautical objections received by the FAA during the study (if any), and the basis for the FAA's decision in this matter can be found on the following page(s).

This determination cancels and supersedes prior determinations issued for this structure.

If we can be of further assistance, please contact Lan Norris, at (404) 305-6645, or Lan.norris@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-WTE-3394-OE.

Signature Control No: 546551119-576464721 Mike Helvey Manager, Obstruction Evaluation Group

Attachment(s) Additional Information Map(s) (DNH-WT)

Additional information for ASN 2022-WTE-3394-OE

All FAA determinations and circularized cases are public record and available at the FAA's public website; https://oeaaa.faa.gov. The distribution for proposals circularized for public comments includes all "known" aviation interested persons and those who do not have an aeronautical interest but may become involved with specific aeronautical studies. Notification includes both postcard mailers and email notifications to those with registered FAA accounts. The FAA does not have a database for all persons with an aeronautical and non-aeronautical interest. Therefore, the public is encouraged to re-distribute and forward notices of circularized cases to the maximum extent possible. Additionally, it is incumbent upon local state, county and city officials to share notice of circularized cases with their concerned citizens.

A list of commonly used acronyms and abbreviations is available at the end of this document. A full list is available at the FAA's public website at https://oeaaa.faa.gov/oeaaa/downloads/external/content/ FAA_Acronyms.pdf.

1. PROPOSAL DESCRIPTION

Proposed are 219 wind turbines for a wind farm project that would be located approximately 2.95 NM - 19.15 NM east-southeast of the Airport Reference Point (ARP) for Dwight Airport (DTG) Dwight, IL and approximately 4.50 NM - 22.70 NM west of the ARP for Greater Kankakee Airport (IKK) Kankakee, IL. For the sake of efficiency, all of the wind turbines in this project have similar impacts and are included in this narrative. The proposed wind turbines' described heights and locations are expressed in Above Ground Level (AGL) height, Above Mean Sea Level (AMSL) height and latitude / longitude.

ASN	/	AGL	/	AMSL	/	Latitude	/	Longitude
2022-WTE-3391-OE	/	698	/	1342	/	41-04-17.21N	/	88-24-47.10W
2022-WTE-3392-OE	/	698	/	1343	/	41-02-53.23N	/	88-24-44.63W
2022-WTE-3393-OE	/	698	/	1341	/	41-04-30.63N	/	88-24-43.89W
2022-WTE-3394-OE	/	698	/	1340	/	41-03-37.88N	/	88-24-25.61W
2022-WTE-3395-OE	/	698	/	1347	/	41-02-28.73N	/	88-24-20.74W
2022-WTE-3396-OE	/	698	/	1342	/	41-02-42.16N	/	88-24-17.61W
2022-WTE-3397-OE	/	698	/	1338	/	41-04-17.36N	/	88-24-17.67W
2022-WTE-3398-OE	/	698	/	1336	/	41-04-30.54N	/	88-24-14.59W
2022-WTE-3399-OE	/	698	/	1340	/	41-04-05.15N	/	88-24-10.55W
2022-WTE-3401-OE	/	698	/	1337	/	41-04-29.07N	/	88-23-40.10W
2022-WTE-3403-OE	/	698	/	1334	/	41-04-29.57N	/	88-23-13.44W
2022-WTE-3404-OE	/	698	/	1328	/	41-05-23.94N	/	88-23-01.85W
2022-WTE-3405-OE	/	698	/	1326	/	41-06-19.89N	/	88-23-02.07W
2022-WTE-3406-OE	/	698	/	1329	/	41-05-09.14N	/	88-22-43.83W
2022-WTE-3407-OE	/	698	/	1329	/	41-04-30.03N	/	88-22-34.76W
2022-WTE-3408-OE	/	698	/	1341	/	41-02-25.96N	/	88-22-23.45W
2022-WTE-3409-OE	/	698	/	1336	/	41-02-46.02N	/	88-22-23.30W
2022-WTE-3410-OE	/	698	/	1329	/	41-05-59.86N	/	88-22-15.07W
2022-WTE-3411-OE	/	698	/	1333	/	41-03-49.63N	/	88-22-06.56W
2022-WTE-3412-OE	/	698	/	1326	/	41-05-10.07N	/	88-22-07.28W
2022-WTE-3413-OE	/	698	/	1331	/	41-04-30.51N	/	88-22-04.53W
2022-WTE-3415-OE	/	698	/	1328	/	41-03-38.30N	/	88-21-56.39W

2022 WEE 2417 OF	,	(00	/	1225	,	41 OF FO 42N	,	00 01 07 (7)
2022-WTE-3417-OE	/	698 698	/	1325	/	41-05-59.43N	/	88-21-37.67W
2022-WTE-3418-OE	/		/	1329	/	41-04-42.83N	/	88-21-35.08W
2022-WTE-3419-OE	/	698	/	1338	/	41-02-56.75N	/	88-21-29.86W
2022-WTE-3420-OE	/	698	/	1328	/	41-04-31.16N	/	88-21-25.70W
2022-WTE-3422-OE	/	698	/	1319	/	41-06-16.95N	/	88-21-17.24W
2022-WTE-3423-OE	/	698	/	1325	/	41-05-09.36N	/	88-21-13.66W
2022-WTE-3424-OE	/	698	/	1349	/	41-01-52.55N	/	88-21-06.14W
2022-WTE-3425-OE	/	698	/	1324	/	41-04-56.99N	/	88-21-06.06W
2022-WTE-3426-OE	/	698	/	1342	/	41-02-42.34N	/	88-21-01.33W
2022-WTE-3427-OE	/	698	/	1315	/	41-06-01.60N	/	88-21-03.23W
2022-WTE-3428-OE	/	698	/	1338	/	41-02-58.40N	/	88-20-57.89W
2022-WTE-3429-OE	/	698	/	1329	/	41-04-06.80N	/	88-20-57.95W
2022-WTE-3430-OE	/	698	/	1325	/	41-04-20.40N	/	88-20-56.06W
2022-WTE-3431-OE	/	698	/	1321	/	41-05-20.67N	/	88-20-39.54W
2022-WTE-3432-OE	/	698	/	1326	/	41-03-36.12N	/	88-20-34.18W
2022-WTE-3433-OE	/	698	/	1320	/	41-05-33.54N	/	88-20-36.22W
2022-WTE-3434-OE	/	698	/	1348	/	41-01-04.02N	/	88-20-30.00W
2022-WTE-3435-OE	/	698	/	1343	/	41-01-41.69N	/	88-20-23.04W
2022-WTE-3436-OE	/	698	/	1328	/	41-03-24.90N	/	88-20-23.95W
2022-WTE-3437-OE	/	698	/	1314	/	41-06-31.00N	/	88-20-26.72W
2022-WTE-3438-OE	/	698	/	1342	/	41-01-55.38N	/	88-20-19.90W
2022-WTE-3439-OE	/	698	/	1335	/	41-02-47.18N	/	88-20-17.54W
2022-WTE-3440-OE	/	698	/	1332	/	41-03-12.01N	/	88-20-17.99W
2022-WTE-3441-OE	/	698	/	1343	/	41-01-15.45N	/	88-20-14.87W
2022-WTE-3442-OE	/	698	/	1347	/	41-01-30.09N	/	88-20-13.51W
2022-WTE-3443-OE	/	698	/	1325	/	41-04-20.55N	/	88-20-14.57W
2022-WTE-3444-OE	/	698	/	1324	/	41-04-08.15N	/	88-20-07.06W
2022-WTE-3445-OE	/	698	/	1321	/	41-04-40.09N	/	88-19-59.17W
2022-WTE-3446-OE	/	698	/	1317	/	41-05-34.68N	/	88-20-01.64W
2022-WTE-3447-OE	/	698	/	1347	/	41-01-55.53N	/	88-19-48.99W
2022-WTE-3448-OE	/	698	/	1320	/	41-05-24.61N	/	88-19-48.75W
2022-WTE-3449-OE	/	698	/	1348	/	41-01-38.91N	/	88-19-43.32W
2022-WTE-3450-OE	/	698	/	1325	/	41-03-42.28N	/	88-19-44.79W
2022-WTE-3451-OE	/	698	/	1347	/	41-01-29.14N		88-19-16.74W
2022-WTE-3452-OE	/	698	/	1332	/	41-02-46.68N	/	88-19-17.40W
2022-WTE-3453-OE	/	698	/	1319	/	41-05-09.27N	/	88-19-20.23W
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2022-WTE-3455-OE	/	698	/	1317	/	41-05-22.71N	/	88-19-17.05W
2022-WTE-3456-OE	/	698	/	1346	/	41-01-56.13N	/	88-19-10.66W
2022-WTE-3457-OE	/	698	/	1329	/	41-03-16.14N	/	88-19-07.46W
2022-WTE-3458-OE	/	698	/	132)	/	41-04-18.10N	/	88-19-07.40W
2022-WTE-3459-OE	/	698	/	1321	/	41-02-30.93N	/	88-19-03.09W
2022-WTE-3450-OE	/	698	/	1316	/	41-02-30.55N	/	88-18-48.78W
2022-WTE-3460-OE 2022-WTE-3461-OE	/	698	/	1310	/	41-02-50.14N	/	88-18-45.28W
2022-WTE-3461-OE 2022-WTE-3462-OE	/	698	/	1330	,	41-02-30.14N 41-05-36.81N	/	88-18-48.48W
2022-WTE-3462-OE 2022-WTE-3463-OE	/	698 698		1314 1346	/	41-02-08.36N		88-18-43.57W
		698 698	/		/		/	
2022-WTE-3464-OE	/		/	1320	/	41-04-12.53N	/	88-18-36.92W
2022-WTE-3465-OE	/	698	/	1326	/	41-03-13.64N	/	88-18-08.86W
2022-WTE-3466-OE	/	698	/	1330	/	41-03-01.89N	/	88-17-59.23W

2022 WTE 2467 OF	/	609	,	1201	/	41 02 50 07N	/	00 10 00 0 0W
2022-WTE-3467-OE 2022-WTE-3468-OE	/	698 698	/	1321 1342	/	41-03-50.07N	/	88-18-00.02W 88-17-51.24W
	/		/	-	· .	41-01-53.74N	<i>'</i> .	
2022-WTE-3469-OE	/	698	/	1334	/	41-02-35.12N	/	88-17-52.43W
2022-WTE-3470-OE	/	698	/	1340	/	41-02-09.09N	/	88-17-51.58W
2022-WTE-3471-OE	/	698	/	1320	/	41-04-15.18N	/	88-17-43.76W
2022-WTE-3472-OE	/	698	/	1317	/	41-04-38.02N	/	88-17-28.76W
2022-WTE-3473-OE	/	698	/	1340	/	41-02-09.93N	/	88-17-25.02W
2022-WTE-3474-OE	/	698	/	1315	/	41-05-12.30N	/	88-17-28.40W
2022-WTE-3475-OE	/	698	/	1309	/	41-06-02.70N	/	88-17-27.84W
2022-WTE-3476-OE	/	698	/	1337	/	41-02-34.85N	/	88-17-22.25W
2022-WTE-3477-OE	/	698	/	1344	/	41-01-56.67N	/	88-17-20.85W
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2022-WTE-3480-OE	/	698	/	1338	/	41-02-22.14N	/	88-16-49.03W
2022-WTE-3481-OE	/	698	/	1342	/	41-02-08.47N	/	88-16-48.62W
2022-WTE-3482-OE	/	698	/	1305	/	41-06-21.75N	/	88-16-36.55W
2022-WTE-3483-OE	/	698	/	1304	/	41-06-40.96N	/	88-16-36.40W
2022-WTE-3484-OE	/	698	/	1303	/	41-06-44.31N	/	88-16-06.67W
2022-WTE-3485-OE	/	698	/	1319	/	41-04-20.44N	/	88-15-47.58W
2022-WTE-3486-OE	/	698	/	1305	/	41-06-03.86N	/	88-15-45.23W
2022-WTE-3487-OE	/	698	/	1318	/	41-04-08.87N	/	88-15-39.10W
2022-WTE-3488-OE	/	698	/	1337	/	41-02-36.20N	/	88-15-21.41W
2022-WTE-3489-OE	/	698	/	1323	/	41-05-02.55N	/	88-21-53.35W
2022-WTE-3490-OE	/	698	/	1325	/	41-04-11.56N	/	88-20-12.63W
2022-WTE-3491-OE	/	698	/	1322	/	41-04-33.72N	/	88-20-05.84W
2022-WTE-3492-OE	/	698	/	1321	/	41-04-05.33N	/	88-19-58.49W
2022-WTE-3493-OE	/	698	/	1326	/	41-04-21.79N	/	88-20-19.61W
2022-WTE-3494-OE	/	698	/	1323	/	41-04-30.45N	/	88-20-19.61W
2022-WTE-3495-OE	/	698	/	1324	/	41-04-18.65N	/	88-20-10.24W
2022-WTE-3496-OE	/	698	/	1322	/	41-04-40.14N	/	88-19-51.87W
2022-WTE-3498-OE	/	698	/	1336	/	41-05-02.13N	/	88-24-16.40W
2022-WTE-3500-OE	/	698	/	1320	/	41-04-17.98N	/	88-14-50.03W
2022-WTE-3501-OE	/	698	/	1329	/	41-03-02.98N	/	88-14-48.27W
2022-WTE-3502-OE	/	698	/	1310	/	41-05-08.14N		88-14-48.30W
2022-WTE-3503-OE	/	698	/	1334	/	41-02-48.38N	/	88-14-42.46W
2022-WTE-3504-OE	/	698	/	1340	/	41-02-33.90N	/	88-14-36.74W
2022-WTE-3505-OE	/	698	/	1325	/	41-03-21.20N	/	88-14-31.26W
2022-WTE-3506-OE	/	698	/	1330	,	41-03-02.60N	/	88-14-15.24W
2022-WTE-3507-OE	/	698	/	1302	/	41-06-42.22N	/	88-14-14.97W
2022-WTE-3508-OE	/	698	/	1334	/	41-02-47.98N	/	88-14-09.37W
2022-WTE-3508-OE 2022-WTE-3509-OE	/	698	/	1316	/	41-04-21.53N	/	88-14-09.96W
2022-WTE-3500-OE 2022-WTE-3510-OE	/	698	/	1304	/	41-06-26.66N	/	88-14-12.23W
2022-WTE-3510-OE 2022-WTE-3511-OE	/	698	/	1310	/	41-05-13.73N	/	88-14-03.56W
2022-WTE-3511-OE 2022-WTE-3512-OE	/	698	/	1303	/	41-06-03.01N	/	88-14-00.76W
2022-WTE-3512-OE 2022-WTE-3513-OE	/	698	/	1305	/	41-02-11.60N	/	88-13-55.09W
2022-WTE-3513-OE 2022-WTE-3514-OE	/	698 698		1345 1339		41-02-11.60N 41-02-26.76N	,	88-13-55.12W
		698 698	/		/		/	
2022-WTE-3515-OE	/		/	1334	/	41-02-48.01N	/	88-13-37.53W
2022-WTE-3516-OE	/	698	/	1345	/	41-02-26.94N	/	88-13-18.75W
2022-WTE-3517-OE	/	698	/	1334	/	41-03-32.16N	/	88-12-59.37W

2022 WTE 2519 OF	/	600	,	1205	/	41 07 22 02N	/	99 19 57 56W
2022-WTE-3518-OE 2022-WTE-3519-OE	/	698 698	/	1295	/	41-07-22.92N	/	88-12-57.56W 88-12-51.36W
	/		/	1345	· .	41-02-41.16N	/	
2022-WTE-3520-OE	/	698	/	1324	/	41-03-52.39N	/	88-12-47.41W
2022-WTE-3521-OE	/	698	/	1316	/	41-04-42.43N	/	88-12-29.61W
2022-WTE-3522-OE	/	698	/	1298	/	41-07-12.66N	/	88-12-19.14W
2022-WTE-3523-OE	/	698	/	1309	/	41-06-10.29N	/	88-12-17.83W
2022-WTE-3524-OE	/	698	/	1310	/	41-05-38.55N	/	88-12-14.71W
2022-WTE-3525-OE	/	698	/	1345	/	41-03-04.74N	/	88-11-54.13W
2022-WTE-3526-OE	/	698	/	1321	/	41-04-20.63N	/	88-11-43.62W
2022-WTE-3527-OE	/	698	/	1298	/	41-07-27.89N	/	88-11-47.36W
2022-WTE-3528-OE	/	698	/	1296	/	41-08-08.85N	/	88-11-28.37W
2022-WTE-3529-OE	/	698	/	1316	/	41-05-19.87N	/	88-11-06.27W
2022-WTE-3530-OE	/	698	/	1324	/	41-04-27.82N	/	88-10-50.84W
2022-WTE-3531-OE	/	698	/	1304	/	41-07-14.61N	/	88-10-50.64W
2022-WTE-3533-OE	/	698	/	1306	/	41-07-14.93N	/	88-10-16.52W
2022-WTE-3534-OE	/	698	/	1327	/	41-04-43.67N	/	88-10-11.46W
2022-WTE-3535-OE	/	698	/	1318	/	41-05-21.69N	/	88-09-58.30W
2022-WTE-3536-OE	/	698	/	1307	/	41-07-16.20N	/	88-09-42.68W
2022-WTE-3537-OE	/	698	/	1327	/	41-04-40.91N	/	88-09-38.44W
2022-WTE-3538-OE	/	698	/	1344	/	41-03-09.50N	/	88-09-35.61W
2022-WTE-3539-OE	/	698	/	1341	/	41-03-39.78N	/	88-09-35.39W
2022-WTE-3540-OE	/	698	/	1350	/	41-02-45.29N	/	88-09-31.43W
2022-WTE-3541-OE	/	698	/	1311	/	41-07-17.13N	/	88-09-03.77W
2022-WTE-3542-OE	/	698	/	1363	/	41-02-01.75N	/	88-08-57.79W
2022-WTE-3543-OE	/	698	/	1320	/	41-05-25.19N	/	88-09-00.77W
2022-WTE-3544-OE	/	698	/	1336	/	41-04-22.81N	/	88-08-59.31W
2022-WTE-3545-OE	/	698	/	1337	/	41-04-05.90N	/	88-08-37.27W
2022-WTE-3546-OE	/	698	/	1337	/	41-03-52.85N	/	88-08-26.89W
2022-WTE-3547-OE	/	698	/	1357	/	41-01-55.29N	/	88-08-24.70W
2022-WTE-3548-OE	/	698	/	1342	/	41-03-11.06N	/	88-08-24.12W
2022-WTE-3549-OE	/	698	/	1325	/	41-05-24.37N	/	88-08-26.15W
2022-WTE-3550-OE	/	698	/	1355	/	41-02-10.08N	/	88-08-21.19W
2022-WTE-3551-OE	/	698	/	1349	/	41-02-35.18N	/	88-08-20.95W
2022-WTE-3552-OE	/	698	/	1335	/	41-04-01.41N	/	88-07-38.12W
2022-WTE-3553-OE	/	698	/	1357	/	41-01-56.94N	/	88-07-30.18W
2022-WTE-3554-OE	/	698	/	1316	/	41-06-19.86N	/	88-07-08.49W
2022-WTE-3555-OE	/	698	/	1327	/	41-05-25.40N	/	88-06-46.50W
2022-WTE-3556-OE	/	698	/	1324	/	41-05-44.95N	/	88-06-25.79W
2022-WTE-3557-OE	/	698	/	1315	/	41-07-20.05N	/	88-06-03.21W
2022-WTE-3558-OE	/	698	/	1301	/	41-08-11.81N	/	88-05-50.35W
2022-WTE-3559-OE	/	698	/	1329	/	41-05-19.18N	/	88-05-32.91W
2022-WTE-3560-OE	/	698	/	1320	/	41-06-21.63N	/	88-05-18.56W
2022-WTE-3561-OE	/	698		1333		41-05-19.67N	/	88-05-02.69W
2022-WTE-3562-OE	/	698	/	1329	/	41-05-46.94N	/	88-04-45.07W
2022 WTE-3563-OE	/	698	/	1320	/	41-06-22.49N	/	88-04-23.34W
2022-WTE-3564-OE	/	698	/	1320	/	41-03-08.29N	/	88-04-13.21W
2022-WTE-3565-OE	/	698	/	1323	/	41-06-49.16N	/	88-03-50.54W
2022-WTE-3566-OE	/	698	/	1323	/	41-03-11.44N	/	88-03-41.33W
2022-WTE-3567-OE	/	698	/	1354	/	41-04-53.85N	/	88-03-16.03W
2022 12 3307 OL	,	070	,	1557	/	11 01 55.051	/	00 05 10.05 W

2022 WTE 2569 OF	,	(00	/	1222	,	41 OC 22 40N	,	00 00 47 40W
2022-WTE-3568-OE	/	698	/	1332	/	41-06-23.49N	/	88-02-47.42W 88-02-42.88W
2022-WTE-3570-OE	/	698	/	1364	/	41-04-54.51N	/	
2022-WTE-3571-OE	/	698	/	1328	/	41-06-42.72N	/	88-02-26.34W
2022-WTE-3572-OE	/	698	/	1362	/	41-03-20.22N	/	88-01-48.74W
2022-WTE-3573-OE	/	698	/	1368	/	41-03-49.57N	/	88-01-47.97W
2022-WTE-3574-OE	/	698	/	1335	/	41-06-41.69N	/	88-01-50.60W
2022-WTE-3575-OE	/	698	/	1334	/	41-06-28.07N	/	88-01-37.48W
2022-WTE-3576-OE	/	698	/	1356	/	41-05-08.73N	/	88-01-34.56W
2022-WTE-3577-OE	/	698	/	1367	/	41-04-11.09N	/	88-01-31.43W
2022-WTE-3578-OE	/	698	/	1359	/	41-04-54.56N	/	88-01-28.29W
2022-WTE-3579-OE	/	698	/	1360	/	41-04-39.59N	/	88-01-27.26W
2022-WTE-3580-OE	/	698	/	1351	/	41-04-59.30N	/	88-00-55.84W
2022-WTE-3581-OE	/	698	/	1334	/	41-02-51.77N	/	88-14-46.92W
2022-WTE-3582-OE	/	698	/	1337	/	41-02-35.93N	/	88-14-44.32W
2022-WTE-3583-OE	/	698	/	1337	/	41-02-31.92N	/	88-14-09.41W
2022-WTE-3585-OE	/	698	/	1336	/	41-02-40.18N	/	88-13-35.85W
2022-WTE-3586-OE	/	698	/	1339	/	41-02-27.02N	/	88-13-23.89W
2022-WTE-3587-OE	/	698	/	1335	/	41-03-33.43N	/	88-12-59.28W
2022-WTE-3588-OE	/	698	/	1296	/	41-07-25.08N	/	88-12-54.64W
2022-WTE-3589-OE	/	698	/	1323	/	41-04-21.05N	/	88-11-52.65W
2022-WTE-3590-OE	/	698	/	1325	/	41-04-51.06N	/	88-10-11.31W
2022-WTE-3592-OE	/	698	/	1305	/	41-07-16.18N	/	88-09-29.61W
2022-WTE-3593-OE	/	698	/	1321	/	41-05-25.55N	/	88-08-59.02W
2022-WTE-3594-OE	/	698	/	1327	/	41-05-23.77N	/	88-08-25.24W
2022-WTE-3595-OE	/	698	/	1355	/	41-02-09.27N	/	88-08-20.78W
2022-WTE-3596-OE	/	698	/	1323	/	41-05-44.94N	/	88-06-18.07W
2022-WTE-3597-OE	/	698	/	1327	/	41-05-34.08N	/	88-05-03.18W
2022-WTE-3598-OE	/	698	/	1332	/	41-06-25.14N	/	88-02-44.08W
2022-WTE-3599-OE	/	698	/	1367	/	41-04-55.15N	/	88-02-37.25W
2022-WTE-3600-OE	/	698	/	1360	/	41-04-39.41N	/	88-01-26.16W
2022-WTE-3601-OE	/	698	/	1355	/	41-04-55.27N	/	88-01-22.34W
2022-WTE-3602-OE	/	698	/	1330	/	41-06-25.64N	/	88-01-55.51W
2022-WTE-3603-OE	/	698	/	1356	/	41-04-43.81N	/	88-00-50.41W
2022-WTE-3604-OE	/	698	/	1357	/	41-05-07.59N		88-01-33.30W
2022-WTE-3605-OE	/	698	/	1312	/	41-04-36.82N	/	88-14-08.41W
2022-WTE-3606-OE	/	698	/	1336		41-04-34.71N	/	88-08-58.00W
2022-WTE-3607-OE	/	698	/	1299	,	41-07-29.89N	/	88-11-24.14W
2022-WTE-3608-OE	/	698	/	1339	,	41-03-51.25N	/	88-09-37.30W
2022-WTE-3609-OE	/	698	/	1341	/	41-03-28.24N	/	88-09-34.27W
2022-WTE-4750-OE	/	698	/	1337	/	41-03-49.61N	/	88-10-28.85W
2022-WTE-4750-OE 2022-WTE-4751-OE	/	698	/	1372	/	41-03-46.85N	/	88-02-40.80W
2022-WTE-4751-OE 2022-WTE-4752-OE	/	698	/	1372	/	41-02-09.49N	/	88-14-10.79W
2022-WTE-4752-OE 2022-WTE-4753-OE	/	698	/	1342	/	41-02-05.45N	/	88-09-29.79W
2022-WTE-4753-OE 2022-WTE-4754-OE	/	698	/	1333	/	41-02-45.45N 41-05-07.12N	/	88-23-55.64W
2022-WTE-4754-OE 2022-WTE-4755-OE	/	698	/	1353	· ,	41-01-01.27N	/	88-20-48.98W
2022-WTE-4755-OE 2022-WTE-4756-OE	/	698 698	· ,	1355	/	41-01-01.27N 41-01-51.14N	•	88-20-48.98W 88-24-10.20W
		698 698	/	1333	/		/	
2022-WTE-4757-OE	/		/		/	41-04-54.55N	/	88-23-19.88W
2022-WTE-4758-OE	/	698	/	1320	/	41-06-33.92N	/	88-22-05.23W
2022-WTE-4759-OE	/	698	/	1345	/	41-02-31.54N	/	88-21-47.66W

2022-WTE-4760-OE / 698 / 1317 / 41-06-35.17N / 88-21-20.07W

2. TITLE 14 CFR PART 77 - OBSTRUCTION STANDARDS EXCEEDED

a. Section 77.17(a)(1); exceeds a height of 499 feet AGL at the site of the object. The proposals would exceed this standard by 199 feet.

b. Section 77.17(a)(3); a height within a terminal obstacle clearance area, including an initial approach segment, a departure area, and a circling approach area, which would result in the vertical distance between any point on the object and an established minimum instrument flight altitude within that area or segment to be less than the required obstacle clearance.

Greater Kankakee Airport (IKK); the following proposals would increase the Minimum Safe Altitude (MSA) for the ILS of LOC RWY 04 from 2300 feet to 2400 feet.

2022-WTE-3391-OE 2022-WTE-3392-OE 2022-WTE-3393-OE 2022-WTE-3394-OE 2022-WTE-3395-OE 2022-WTE-3396-OE 2022-WTE-3397-OE 2022-WTE-3398-OE 2022-WTE-3399-OE 2022-WTE-3401-OE 2022-WTE-3403-OE 2022-WTE-3404-OE 2022-WTE-3405-OE 2022-WTE-3406-OE 2022-WTE-3407-OE 2022-WTE-3408-OE 2022-WTE-3409-OE 2022-WTE-3410-OE 2022-WTE-3411-OE 2022-WTE-3412-OE 2022-WTE-3413-OE 2022-WTE-3415-OE 2022-WTE-3417-OE 2022-WTE-3418-OE 2022-WTE-3419-OE 2022-WTE-3420-OE 2022-WTE-3422-OE 2022-WTE-3423-OE 2022-WTE-3424-OE 2022-WTE-3425-OE 2022-WTE-3426-OE 2022-WTE-3427-OE 2022-WTE-3428-OE 2022-WTE-3429-OE

2022-WTE-3430-OE 2022-WTE-3431-OE 2022-WTE-3432-OE 2022-WTE-3433-OE 2022-WTE-3434-OE 2022-WTE-3435-OE 2022-WTE-3436-OE 2022-WTE-3437-OE 2022-WTE-3438-OE 2022-WTE-3439-OE 2022-WTE-3440-OE 2022-WTE-3441-OE 2022-WTE-3442-OE 2022-WTE-3443-OE 2022-WTE-3444-OE 2022-WTE-3445-OE 2022-WTE-3446-OE 2022-WTE-3447-OE 2022-WTE-3448-OE 2022-WTE-3449-OE 2022-WTE-3450-OE 2022-WTE-3451-OE 2022-WTE-3452-OE 2022-WTE-3453-OE 2022-WTE-3454-OE 2022-WTE-3455-OE 2022-WTE-3456-OE 2022-WTE-3457-OE 2022-WTE-3458-OE 2022-WTE-3459-OE 2022-WTE-3460-OE 2022-WTE-3461-OE 2022-WTE-3462-OE 2022-WTE-3463-OE 2022-WTE-3464-OE 2022-WTE-3465-OE 2022-WTE-3466-OE 2022-WTE-3467-OE 2022-WTE-3468-OE 2022-WTE-3469-OE 2022-WTE-3470-OE 2022-WTE-3471-OE 2022-WTE-3472-OE 2022-WTE-3473-OE 2022-WTE-3474-OE 2022-WTE-3475-OE 2022-WTE-3476-OE 2022-WTE-3477-OE 2022-WTE-3478-OE

2022-WTE-3479-OE 2022-WTE-3480-OE 2022-WTE-3481-OE 2022-WTE-3482-OE 2022-WTE-3483-OE 2022-WTE-3484-OE 2022-WTE-3485-OE 2022-WTE-3486-OE 2022-WTE-3487-OE 2022-WTE-3488-OE 2022-WTE-3489-OE 2022-WTE-3490-OE 2022-WTE-3491-OE 2022-WTE-3492-OE 2022-WTE-3493-OE 2022-WTE-3494-OE 2022-WTE-3495-OE 2022-WTE-3496-OE 2022-WTE-3498-OE 2022-WTE-3500-OE 2022-WTE-3501-OE 2022-WTE-3502-OE 2022-WTE-3503-OE 2022-WTE-3504-OE 2022-WTE-3505-OE 2022-WTE-3506-OE 2022-WTE-3507-OE 2022-WTE-3508-OE 2022-WTE-3509-OE 2022-WTE-3510-OE 2022-WTE-3511-OE 2022-WTE-3512-OE 2022-WTE-3513-OE 2022-WTE-3514-OE 2022-WTE-3515-OE 2022-WTE-3516-OE 2022-WTE-3517-OE 2022-WTE-3519-OE 2022-WTE-3520-OE 2022-WTE-3521-OE 2022-WTE-3523-OE 2022-WTE-3524-OE 2022-WTE-3525-OE 2022-WTE-3526-OE 2022-WTE-3529-OE 2022-WTE-3530-OE 2022-WTE-3531-OE 2022-WTE-3533-OE 2022-WTE-3534-OE

2022-WTE-3535-OE 2022-WTE-3536-OE 2022-WTE-3537-OE 2022-WTE-3538-OE 2022-WTE-3539-OE 2022-WTE-3540-OE 2022-WTE-3541-OE 2022-WTE-3542-OE 2022-WTE-3543-OE 2022-WTE-3544-OE 2022-WTE-3545-OE 2022-WTE-3546-OE 2022-WTE-3547-OE 2022-WTE-3548-OE 2022-WTE-3549-OE 2022-WTE-3550-OE 2022-WTE-3551-OE 2022-WTE-3552-OE 2022-WTE-3553-OE 2022-WTE-3554-OE 2022-WTE-3555-OE 2022-WTE-3556-OE 2022-WTE-3557-OE 2022-WTE-3558-OE 2022-WTE-3559-OE 2022-WTE-3560-OE 2022-WTE-3561-OE 2022-WTE-3562-OE 2022-WTE-3563-OE 2022-WTE-3564-OE 2022-WTE-3565-OE 2022-WTE-3566-OE 2022-WTE-3567-OE 2022-WTE-3568-OE 2022-WTE-3570-OE 2022-WTE-3571-OE 2022-WTE-3572-OE 2022-WTE-3573-OE 2022-WTE-3574-OE 2022-WTE-3575-OE 2022-WTE-3576-OE 2022-WTE-3577-OE 2022-WTE-3578-OE 2022-WTE-3579-OE 2022-WTE-3580-OE 2022-WTE-3581-OE 2022-WTE-3582-OE 2022-WTE-3583-OE 2022-WTE-3585-OE

2022-WTE-3586-OE 2022-WTE-3587-OE 2022-WTE-3589-OE 2022-WTE-3590-OE 2022-WTE-3592-OE 2022-WTE-3593-OE 2022-WTE-3594-OE 2022-WTE-3595-OE 2022-WTE-3596-OE 2022-WTE-3597-OE 2022-WTE-3598-OE 2022-WTE-3599-OE 2022-WTE-3600-OE 2022-WTE-3601-OE 2022-WTE-3602-OE 2022-WTE-3603-OE 2022-WTE-3604-OE 2022-WTE-3605-OE 2022-WTE-3606-OE 2022-WTE-3608-OE 2022-WTE-3609-OE 2022-WTE-4750-OE 2022-WTE-4751-OE 2022-WTE-4752-OE 2022-WTE-4753-OE 2022-WTE-4754-OE 2022-WTE-4755-OE 2022-WTE-4756-OE 2022-WTE-4757-OE 2022-WTE-4758-OE 2022-WTE-4759-OE 2022-WTE-4760-OE

Morris Municipal Airport-James R. Washburn Field (C09); the following would increase the RNAV (GPS) RWY 18, missed approach minimum holding at DIBBL and the RNAV (GPS) RWY 36, hold-in-lieu of procedure turn at DIBBL from 2200 feet to 2400 feet.

2022-WTE-3404-OE 2022-WTE-3405-OE 2022-WTE-3406-OE 2022-WTE-3407-OE 2022-WTE-3410-OE 2022-WTE-3412-OE 2022-WTE-3417-OE 2022-WTE-3422-OE 2022-WTE-3423-OE 2022-WTE-3425-OE 2022-WTE-3427-OE 2022-WTE-3431-OE 2022-WTE-3433-OE 2022-WTE-3437-OE 2022-WTE-3446-OE 2022-WTE-3489-OE 2022-WTE-3498-OE 2022-WTE-4754-OE 2022-WTE-4757-OE 2022-WTE-4758-OE 2022-WTE-4760-OE

Pontiac Municipal (PNT); the following would increase the VOR RWY 24, procedure turn altitude from 2300 feet to 2400 feet.

2022-WTE-3391-OE 2022-WTE-3392-OE 2022-WTE-3393-OE 2022-WTE-3394-OE 2022-WTE-3395-OE 2022-WTE-3396-OE 2022-WTE-3397-OE 2022-WTE-3398-OE 2022-WTE-3399-OE 2022-WTE-3401-OE 2022-WTE-3403-OE 2022-WTE-3404-OE 2022-WTE-3405-OE 2022-WTE-3406-OE 2022-WTE-3407-OE 2022-WTE-3408-OE 2022-WTE-3409-OE 2022-WTE-3410-OE 2022-WTE-3411-OE 2022-WTE-3412-OE 2022-WTE-3413-OE 2022-WTE-3415-OE 2022-WTE-3417-OE 2022-WTE-3418-OE 2022-WTE-3419-OE 2022-WTE-3420-OE 2022-WTE-3422-OE 2022-WTE-3423-OE 2022-WTE-3424-OE 2022-WTE-3425-OE 2022-WTE-3426-OE 2022-WTE-3427-OE 2022-WTE-3428-OE 2022-WTE-3429-OE 2022-WTE-3430-OE 2022-WTE-3431-OE 2022-WTE-3432-OE 2022-WTE-3433-OE 2022-WTE-3436-OE 2022-WTE-3437-OE 2022-WTE-3439-OE 2022-WTE-3440-OE 2022-WTE-3443-OE 2022-WTE-3444-OE 2022-WTE-3445-OE 2022-WTE-3446-OE 2022-WTE-3447-OE 2022-WTE-3448-OE 2022-WTE-3449-OE 2022-WTE-3450-OE 2022-WTE-3453-OE 2022-WTE-3455-OE 2022-WTE-3458-OE 2022-WTE-3460-OE 2022-WTE-3462-OE 2022-WTE-3489-OE 2022-WTE-3490-OE 2022-WTE-3491-OE 2022-WTE-3492-OE 2022-WTE-3493-OE 2022-WTE-3494-OE 2022-WTE-3495-OE 2022-WTE-3496-OE 2022-WTE-3498-OE 2022-WTE-4754-OE 2022-WTE-4757-OE 2022-WTE-4758-OE 2022-WTE-4759-OE 2022-WTE-4760-OE

ADELL SIX DEPARTURE (RNAV); the following would increase the Minimum Obstruction Clearance Altitude (MOCA), ADELL to AKMIE from 2300 feet to 2400 feet. (Procedure serves: KGYY, KARR, KDPA, KLOT)

2022-WTE-3391-OE 2022-WTE-3392-OE 2022-WTE-3393-OE 2022-WTE-3394-OE 2022-WTE-3395-OE 2022-WTE-3396-OE 2022-WTE-3397-OE 2022-WTE-3398-OE 2022-WTE-3399-OE 2022-WTE-3401-OE 2022-WTE-3403-OE

2022-WTE-3404-OE 2022-WTE-3405-OE 2022-WTE-3406-OE 2022-WTE-3407-OE 2022-WTE-3408-OE 2022-WTE-3409-OE 2022-WTE-3410-OE 2022-WTE-3411-OE 2022-WTE-3412-OE 2022-WTE-3413-OE 2022-WTE-3415-OE 2022-WTE-3417-OE 2022-WTE-3418-OE 2022-WTE-3419-OE 2022-WTE-3420-OE 2022-WTE-3422-OE 2022-WTE-3423-OE 2022-WTE-3424-OE 2022-WTE-3425-OE 2022-WTE-3426-OE 2022-WTE-3427-OE 2022-WTE-3428-OE 2022-WTE-3429-OE 2022-WTE-3430-OE 2022-WTE-3431-OE 2022-WTE-3432-OE 2022-WTE-3433-OE 2022-WTE-3434-OE 2022-WTE-3435-OE 2022-WTE-3436-OE 2022-WTE-3437-OE 2022-WTE-3438-OE 2022-WTE-3439-OE 2022-WTE-3440-OE 2022-WTE-3441-OE 2022-WTE-3442-OE 2022-WTE-3443-OE 2022-WTE-3444-OE 2022-WTE-3445-OE 2022-WTE-3446-OE 2022-WTE-3447-OE 2022-WTE-3448-OE 2022-WTE-3449-OE 2022-WTE-3450-OE 2022-WTE-3451-OE 2022-WTE-3452-OE 2022-WTE-3453-OE 2022-WTE-3454-OE 2022-WTE-3455-OE

2022-WTE-3456-OE 2022-WTE-3457-OE 2022-WTE-3458-OE 2022-WTE-3459-OE 2022-WTE-3460-OE 2022-WTE-3461-OE 2022-WTE-3462-OE 2022-WTE-3463-OE 2022-WTE-3464-OE 2022-WTE-3465-OE 2022-WTE-3466-OE 2022-WTE-3467-OE 2022-WTE-3468-OE 2022-WTE-3469-OE 2022-WTE-3470-OE 2022-WTE-3471-OE 2022-WTE-3472-OE 2022-WTE-3473-OE 2022-WTE-3474-OE 2022-WTE-3475-OE 2022-WTE-3476-OE 2022-WTE-3477-OE 2022-WTE-3478-OE 2022-WTE-3479-OE 2022-WTE-3480-OE 2022-WTE-3481-OE 2022-WTE-3482-OE 2022-WTE-3483-OE 2022-WTE-3484-OE 2022-WTE-3485-OE 2022-WTE-3486-OE 2022-WTE-3487-OE 2022-WTE-3488-OE 2022-WTE-3489-OE 2022-WTE-3490-OE 2022-WTE-3491-OE 2022-WTE-3492-OE 2022-WTE-3493-OE 2022-WTE-3494-OE 2022-WTE-3495-OE 2022-WTE-3496-OE 2022-WTE-3498-OE 2022-WTE-3500-OE 2022-WTE-3501-OE 2022-WTE-3502-OE 2022-WTE-3503-OE 2022-WTE-3507-OE 2022-WTE-3510-OE 2022-WTE-3511-OE

2022-WTE-3512-OE 2022-WTE-4756-OE 2022-WTE-4759-OE

- Chicago TRACON (C90); the following would increase the Minimum Vectoring Altitude (MVA) for C90_MVA_FUS3_2022 and C90_MVA_FUS5_2022, Sector G from 2300 feet to 2400 feet.

2022-WTE-3540-OE 2022-WTE-3542-OE 2022-WTE-3547-OE 2022-WTE-3550-OE 2022-WTE-3553-OE 2022-WTE-3564-OE 2022-WTE-3566-OE 2022-WTE-3567-OE 2022-WTE-3570-OE 2022-WTE-3572-OE 2022-WTE-3573-OE 2022-WTE-3576-OE 2022-WTE-3577-OE 2022-WTE-3578-OE 2022-WTE-3579-OE 2022-WTE-3580-OE 2022-WTE-3595-OE 2022-WTE-3599-OE 2022-WTE-3600-OE 2022-WTE-3601-OE 2022-WTE-3603-OE 2022-WTE-3604-OE 2022-WTE-4751-OE 2022-WTE-4753-OE 2022-WTE-4755-OE 2022-WTE-4756-OE

c. Section 77.17(a)(4); a height within an en route obstacle clearance area, including turn and termination areas, of a Federal Airway or approved off-airway route, that would increase the minimum obstacle clearance altitude.

V-191; The following would increase the Minimum Obstruction Clearance Altitude (MOCA) from Roberts (RBS) VOR/DME, 006 Radial, between NEWTT and JESOG from 2200 feet to 2400 feet.

2022-WTE-3537-OE 2022-WTE-3538-OE 2022-WTE-3539-OE 2022-WTE-3540-OE 2022-WTE-3541-OE 2022-WTE-3542-OE 2022-WTE-3542-OE 2022-WTE-3543-OE 2022-WTE-3544-OE

2022-WTE-3545-OE 2022-WTE-3546-OE 2022-WTE-3547-OE 2022-WTE-3548-OE 2022-WTE-3549-OE 2022-WTE-3550-OE 2022-WTE-3551-OE 2022-WTE-3552-OE 2022-WTE-3553-OE 2022-WTE-3554-OE 2022-WTE-3555-OE 2022-WTE-3556-OE 2022-WTE-3557-OE 2022-WTE-3558-OE 2022-WTE-3559-OE 2022-WTE-3560-OE 2022-WTE-3561-OE 2022-WTE-3562-OE 2022-WTE-3563-OE 2022-WTE-3564-OE 2022-WTE-3565-OE 2022-WTE-3566-OE 2022-WTE-3567-OE 2022-WTE-3568-OE 2022-WTE-3570-OE 2022-WTE-3571-OE 2022-WTE-3572-OE 2022-WTE-3573-OE 2022-WTE-3574-OE 2022-WTE-3575-OE 2022-WTE-3576-OE 2022-WTE-3577-OE 2022-WTE-3578-OE 2022-WTE-3579-OE 2022-WTE-3580-OE 2022-WTE-3593-OE 2022-WTE-3594-OE 2022-WTE-3595-OE 2022-WTE-3596-OE 2022-WTE-3597-OE 2022-WTE-3598-OE 2022-WTE-3599-OE 2022-WTE-3600-OE 2022-WTE-3601-OE 2022-WTE-3602-OE 2022-WTE-3603-OE 2022-WTE-3604-OE 2022-WTE-3606-OE 2022-WTE-3608-OE

2022-WTE-3609-OE 2022-WTE-4751-OE 2022-WTE-4753-OE 2022-WTE-4755-OE

3. TITLE 14 CFR PART 77 - EFFECT ON AERONAUTICAL OPERATIONS

a. Section 77.29 (a)(1); the impact on arrival, departure, and en route procedures for aircraft operating under visual flight rules.

At a height greater than 499 feet AGL, the proposed wind farm would extend into airspace normally used for VFR en route flight and located within 2 statute miles (SM) of a potential VFR Route as defined by FAA Order 7400.2, Section 6-3-8. The turbines within 2 SM of a VFR route would have an adverse effect upon VFR air navigation. Further study was required to determine whether the structures would affect a significant volume of VFR aircraft resulting in a substantial adverse effect on VFR en route traffic.

b. Section 77.29 (a)(3); impact on existing and planned public use airports. The following proposals would exceed the Dwight Airport (DTG) Traffic Pattern Airspace (TPA) for the runway (RWY) 09/27 and/or RWY 18/36, climb and/or descent areas as applied to Category (CAT) C and/or D aircraft by up to 560 feet.

CAT C 2022-WTE-3405-OE

CAT D

2022-WTE-3391-OE 2022-WTE-3393-OE 2022-WTE-3397-OE 2022-WTE-3398-OE 2022-WTE-3399-OE 2022-WTE-3401-OE 2022-WTE-3403-OE 2022-WTE-3404-OE 2022-WTE-3405-OE 2022-WTE-3406-OE 2022-WTE-3407-OE 2022-WTE-3410-OE 2022-WTE-3412-OE 2022-WTE-3413-OE 2022-WTE-3417-OE 2022-WTE-3422-OE 2022-WTE-3423-OE 2022-WTE-3489-OE 2022-WTE-3498-OE 2022-WTE-4754-OE 2022-WTE-4757-OE 2022-WTE-4758-OE 2022-WTE-4760-OE c. Section 77.29(a)(6); effect on ATC radar, direction finders, ATC tower line-of-sight visibility, and physical or electromagnetic effects on air navigation, communication facilities, and other surveillance systems.

The wind turbines be located within Radar Line of Sight (RLOS) of the Elwood (Joliet) CARSR (JOL), Oak Forest (Chicago) ASR-9 (QXM) and the DuPage (West Chicago) ASR-9 (DPA) radar facilities. The wind turbines may affect the quality and/or availability of the primary radar signals in the area of the proposed wind farm.

4. TITLE 14 CFR PART 77 - FURTHER STUDY AND PUBLIC COMMENTS

In order to facilitate the public comment process, all 219 studies were circularized under ASN 2022-WTE-3521-OE on 02/02/2023, to all known aviation interests and to non-aeronautical interests that may be affected by the proposal. There were no comment received as a result of the circularization concluding on 03/11/2023.

5. BASIS FOR DETERMINATION

a. IFR Effects - The aeronautical study identified an IFR effects for IKK, C09, PNT, C90, V-191 and the departure procedure serving KGYY, KARR, KDPA, KLOT.

Minimum Safe Altitudes (MSA) are the minimum obstacle clearance altitudes within a specified distance from the navigation facilities upon which procedures are predicated. MSA altitudes are designed for emergency use only and are not routinely used by pilots or by air traffic control. Consequently, MSAs are not circulated for public comment as they are not considered a factor in determining the extent of adverse effect.

The increase to the RNAV (GPS) RWY 18 missed approach holding for C09 and the VOR RWY 24, procedure turn altitude for PNT are not considered excessive. Increasing the minimum altitudes would ensure the required obstacle clearances are maintained and would not have a significant impact on a pilot's ability to safely execute the procedures. Therefore, the proposed wind farm would not have a substantial adverse effect on IFR operations for C09 or PNT.

Minimum Obstruction Clearance Altitudes (MOCA) assure obstacle clearance over the entire route segment to which they apply and assure navigational signal coverage within 22 NM of the associated VOR navigational facility. For that portion of the route segment beyond 22 NM from the VOR, where the MOCA is lower than the MEA and there are no plans to lower the MEA to the MOCA, a structure that affects only the MOCA would not be considered to have substantial adverse effect. A review by the controlling ATC facilities determined that increasing the MOCAs for the ADELL SIX DEPARTURE (RNAV) and along V-191 would ensure the required obstacle clearances are maintained and would not have a substantial adverse effect on IFR operations for KGYY, KARR, KDPA, KLOT or V-191.

Minimum Vectoring Altitudes (MVA) are solely used by ATC, not published for public use and therefore are not circulated for public comment. A review by the controlling facility determined that increasing the altitude in the sector would ensure the required obstacle clearance is maintained and therefore would not have a substantial adverse effect on IFR operations for C90.

The proposed structures would have no effect on any other existing or proposed arrival, departure, or en route IFR operations or procedures.

b. VFR Effects - The aeronautical study identified no effect on any existing or proposed VFR arrival or departure operations. The proposals would be located within the traffic pattern airspace for DTG as applied to CAT C and D aircraft. Airport records indicate that DTG does not support regular and continuous CAT C and D operations. Additionally, available annual IFR traffic data for DTG identified no CAT B, C or D operations. Therefore the proposal would be located beyond normal traffic pattern airspace and would not have an adverse effect on VFR operations for DTG, or any other known public use or military airports.

At 698 feet AGL, the structures would be located within the altitudes commonly used for en route VFR flight. In coordination with ATC, an analysis of potential VFR Routes and available traffic data indicated that an average of less than one VFR aircraft per day may be affected by the proposed wind farm. In accordance with FAA Order 7400.2, the proposed wind farm would not affect a significant volume of aircraft and therefore, it is determined they will not have a substantial adverse effect on en route VFR flight operations.

The proposed structures would be charted on VFR sectional aeronautical charts and appropriately obstruction marked/lighted to make them more conspicuous to airmen should circumnavigation be necessary.

c. NAVAIDs/Radar Effects - The aeronautical study identified the proposed turbines as being within the RLOS of the JOL, QXM and DPA radar facilities as described above. Impacts to radar only require a review by the responsible ATC facility and military services. Further study determined the structures would have no substantial adverse effect on military or air traffic operations at this time.

d. Cumulative Effect - The cumulative impact of the proposed structures, when combined with other proposed and existing structures, is not considered to be significant. Study did not disclose any substantial adverse effect on existing or proposed public-use or military airports or navigational facilities, nor would the proposals affect the capacity of any known existing or planned public-use or military airport.

e. Military Airspace - The aeronautical study included a review by the Army, Navy, Air Force, Department of Defense (DOD) and Department of Homeland Security (DHS). In accordance with JO 7400.2, Par. 6-3-6-f., military personnel are responsible for evaluating the effect on airspace and routes used by the military. The Air Force and DOD identified the proposed structures as being located within the confines or near a military training route or military training area. All structures are within the terms of the Mitigation Agreement on file with the Military Aviation and Installation Assurance Siting Clearinghouse.

6. DETERMINATION

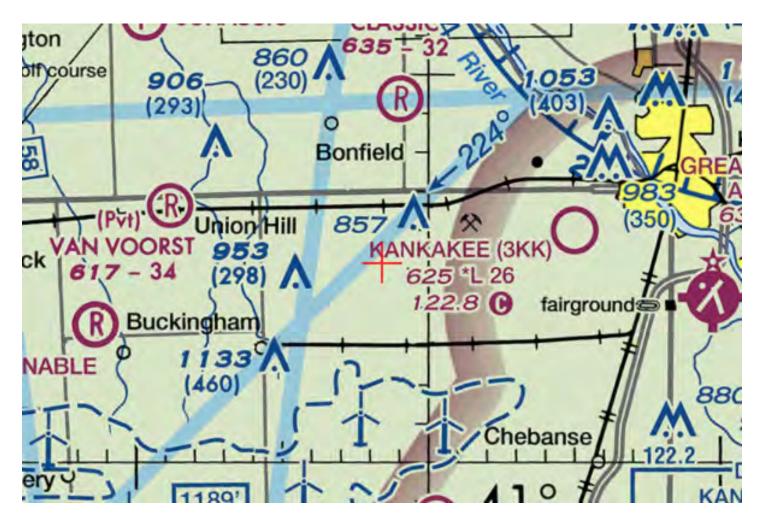
It is determined that the proposed construction would not have a substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on any air navigation facility and would not be a hazard to air navigation providing the conditions set forth in this determination are met.

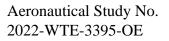
ACRONYMS & ABBREVIATIONS

AGL, Above Ground Level AMSL, Above Mean Sea Level ARP, Airport Reference Point

ARSR, Air Route Surveillance Radar ARTCC, Air Route Traffic Control Center ASN, Aeronautical Study Number ASR, Airport Surveillance Radar ATC, Air Traffic Control ATCT, Air Traffic Control Tower CARSR, Common Air Route Surveillance Radar CAT, Category CFR, Code of Federal Regulations CG, Climb Gradient DA, Decision Altitude DME, Distance Measuring Equipment FAA, Federal Aviation Administration FUS, Fusion GPS, Global Positioning System IAF, Initial Approach Fix IAP, Instrument Approach Procedure ICA, Initial Climb Area IFR, Instrument Flight Rules **INT**, Intersection LAT, Latitude LNAV, Lateral Navigation LOC, Localizer LONG, Longitude LP, Localizer Performance LPV, Localizer Performance with Vertical Guidance MDA, Minimum Descent Altitude MEA, Minimum En route Altitude MET, Meteorological Evaluation Tower MIA, Minimum IFR Altitude Min, Minimum MOCA, Minimum Obstruction Clearance Altitude MSA, Minimum Safe Altitude MSL, Mean Sea Level MVA, Minimum Vectoring Altitude NA, Not Authorized NAS, National Airspace System NAVAID, Navigational Aid NDB, Non-Directional Radio Beacon NEH, No Effect Height NM, Nautical Mile NOTAM, Notice to Airmen NPF, Notice of Preliminary Findings OCS, Obstacle Clearance Surface OE, Obstruction Evaluation OEG, Obstruction Evaluation Group Part 77 - Title 14 Code of Federal Regulations (CFR) Part 77, Safe, Efficient Use and Preservation of the Navigable Airspace. P-NOTAM. Permanent Notice to Airmen

RLOS, Radar Line of Sight RNAV, Area Navigation RNP, Required Navigation Performance RWY, Runway S-, Straight-in SE, Site Elevation S-LOC, Straight-in Localizer SM, Statute Miles Std., Standard TAA, Terminal Arrival Area TACAN, Tactical Air Navigation System TERPS, Terminal Instrument Procedures TPA, Traffic Pattern Airspace TRACON, Terminal Radar Approach Control V, Victor Airway VFR, Visual Flight Rules VHF, Very High Frequency VOR, VHF Omnidirectional Radio Range System VORTAC, VOR/TACAN System WTE, Wind Turbine East WTW, Wind Turbine West







Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L5
Location:	Dwight, IL
Latitude:	41-02-28.73N NAD 83
Longitude:	88-24-20.74W
Heights:	649 feet site elevation (SE)
	698 feet above ground level (AGL)
	1347 feet above mean sea level (AMSL)

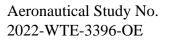
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L6
Location:	Dwight, IL
Latitude:	41-02-42.16N NAD 83
Longitude:	88-24-17.61W
Heights:	644 feet site elevation (SE)
	698 feet above ground level (AGL)
	1342 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3399-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L9
Location:	Dwight, IL
Latitude:	41-04-05.15N NAD 83
Longitude:	88-24-10.55W
Heights:	642 feet site elevation (SE)
	698 feet above ground level (AGL)
	1340 feet above mean sea level (AMSL)

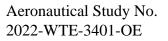
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L11
Location:	Dwight, IL
Latitude:	41-04-29.07N NAD 83
Longitude:	88-23-40.10W
Heights:	639 feet site elevation (SE)
	698 feet above ground level (AGL)
	1337 feet above mean sea level (AMSL)

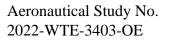
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L13
Location:	Dwight, IL
Latitude:	41-04-29.57N NAD 83
Longitude:	88-23-13.44W
Heights:	636 feet site elevation (SE)
	698 feet above ground level (AGL)
	1334 feet above mean sea level (AMSL)

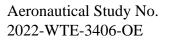
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L16
Location:	Dwight, IL
Latitude:	41-05-09.14N NAD 83
Longitude:	88-22-43.83W
Heights:	631 feet site elevation (SE)
	698 feet above ground level (AGL)
	1329 feet above mean sea level (AMSL)

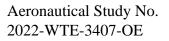
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L17
Location:	Dwight, IL
Latitude:	41-04-30.03N NAD 83
Longitude:	88-22-34.76W
Heights:	631 feet site elevation (SE)
	698 feet above ground level (AGL)
	1329 feet above mean sea level (AMSL)

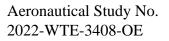
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L18
Location:	Dwight, IL
Latitude:	41-02-25.96N NAD 83
Longitude:	88-22-23.45W
Heights:	643 feet site elevation (SE)
	698 feet above ground level (AGL)
	1341 feet above mean sea level (AMSL)

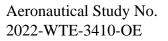
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L20
Location:	Dwight, IL
Latitude:	41-05-59.86N NAD 83
Longitude:	88-22-15.07W
Heights:	631 feet site elevation (SE)
	698 feet above ground level (AGL)
	1329 feet above mean sea level (AMSL)

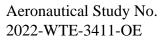
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L21
Location:	Dwight, IL
Latitude:	41-03-49.63N NAD 83
Longitude:	88-22-06.56W
Heights:	635 feet site elevation (SE)
	698 feet above ground level (AGL)
	1333 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)



Aeronautical Study No. 2022-WTE-4758-OE Prior Study No. 2022-WTE-3414-OE

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L24
Location:	Dwight, IL
Latitude:	41-06-33.92N NAD 83
Longitude:	88-22-05.23W
Heights:	622 feet site elevation (SE)
	698 feet above ground level (AGL)
	1320 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)



Aeronautical Study No. 2022-WTE-4759-OE Prior Study No. 2022-WTE-3416-OE

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L26
Location:	Dwight, IL
Latitude:	41-02-31.54N NAD 83
Longitude:	88-21-47.66W
Heights:	647 feet site elevation (SE)
	698 feet above ground level (AGL)
	1345 feet above mean sea level (AMSL)

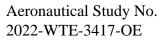
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L27
Location:	Dwight, IL
Latitude:	41-05-59.43N NAD 83
Longitude:	88-21-37.67W
Heights:	627 feet site elevation (SE)
	698 feet above ground level (AGL)
	1325 feet above mean sea level (AMSL)

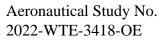
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L28
Location:	Dwight, IL
Latitude:	41-04-42.83N NAD 83
Longitude:	88-21-35.08W
Heights:	631 feet site elevation (SE)
	698 feet above ground level (AGL)
	1329 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3419-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L29
Location:	Dwight, IL
Latitude:	41-02-56.75N NAD 83
Longitude:	88-21-29.86W
Heights:	640 feet site elevation (SE)
	698 feet above ground level (AGL)
	1338 feet above mean sea level (AMSL)

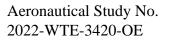
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L30
Location:	Dwight, IL
Latitude:	41-04-31.16N NAD 83
Longitude:	88-21-25.70W
Heights:	630 feet site elevation (SE)
	698 feet above ground level (AGL)
	1328 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)



Aeronautical Study No. 2022-WTE-4760-OE Prior Study No. 2022-WTE-3421-OE

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L31
Location:	Dwight, IL
Latitude:	41-06-35.17N NAD 83
Longitude:	88-21-20.07W
Heights:	619 feet site elevation (SE)
	698 feet above ground level (AGL)
	1317 feet above mean sea level (AMSL)

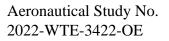
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L32
Location:	Dwight, IL
Latitude:	41-06-16.95N NAD 83
Longitude:	88-21-17.24W
Heights:	621 feet site elevation (SE)
	698 feet above ground level (AGL)
	1319 feet above mean sea level (AMSL)

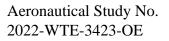
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L33
Location:	Dwight, IL
Latitude:	41-05-09.36N NAD 83
Longitude:	88-21-13.66W
Heights:	627 feet site elevation (SE)
	698 feet above ground level (AGL)
	1325 feet above mean sea level (AMSL)

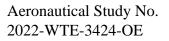
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L34
Location:	Dwight, IL
Latitude:	41-01-52.55N NAD 83
Longitude:	88-21-06.14W
Heights:	651 feet site elevation (SE)
	698 feet above ground level (AGL)
	1349 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3425-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L35
Location:	Dwight, IL
Latitude:	41-04-56.99N NAD 83
Longitude:	88-21-06.06W
Heights:	626 feet site elevation (SE)
	698 feet above ground level (AGL)
	1324 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3427-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L37
Location:	Dwight, IL
Latitude:	41-06-01.60N NAD 83
Longitude:	88-21-03.23W
Heights:	617 feet site elevation (SE)
	698 feet above ground level (AGL)
	1315 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3428-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L38
Location:	Dwight, IL
Latitude:	41-02-58.40N NAD 83
Longitude:	88-20-57.89W
Heights:	640 feet site elevation (SE)
	698 feet above ground level (AGL)
	1338 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3429-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L39
Location:	Dwight, IL
Latitude:	41-04-06.80N NAD 83
Longitude:	88-20-57.95W
Heights:	631 feet site elevation (SE)
	698 feet above ground level (AGL)
	1329 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3430-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L40
Location:	Dwight, IL
Latitude:	41-04-20.40N NAD 83
Longitude:	88-20-56.06W
Heights:	627 feet site elevation (SE)
	698 feet above ground level (AGL)
	1325 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3432-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L42
Location:	Dwight, IL
Latitude:	41-03-36.12N NAD 83
Longitude:	88-20-34.18W
Heights:	628 feet site elevation (SE)
	698 feet above ground level (AGL)
	1326 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3433-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L43
Location:	Dwight, IL
Latitude:	41-05-33.54N NAD 83
Longitude:	88-20-36.22W
Heights:	622 feet site elevation (SE)
	698 feet above ground level (AGL)
	1320 feet above mean sea level (AMSL)

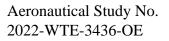
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X__ At least 60 days prior to start of construction (7460-2, Part 1) __X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L46
Location:	Dwight, IL
Latitude:	41-03-24.90N NAD 83
Longitude:	88-20-23.95W
Heights:	630 feet site elevation (SE)
	698 feet above ground level (AGL)
	1328 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3437-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L47
Location:	Dwight, IL
Latitude:	41-06-31.00N NAD 83
Longitude:	88-20-26.72W
Heights:	616 feet site elevation (SE)
	698 feet above ground level (AGL)
	1314 feet above mean sea level (AMSL)

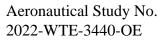
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L50
Location:	Dwight, IL
Latitude:	41-03-12.01N NAD 83
Longitude:	88-20-17.99W
Heights:	634 feet site elevation (SE)
	698 feet above ground level (AGL)
	1332 feet above mean sea level (AMSL)

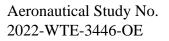
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L56
Location:	Dwight, IL
Latitude:	41-05-34.68N NAD 83
Longitude:	88-20-01.64W
Heights:	619 feet site elevation (SE)
	698 feet above ground level (AGL)
	1317 feet above mean sea level (AMSL)

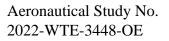
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L58
Location:	Dwight, IL
Latitude:	41-05-24.61N NAD 83
Longitude:	88-19-48.75W
Heights:	622 feet site elevation (SE)
	698 feet above ground level (AGL)
	1320 feet above mean sea level (AMSL)

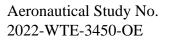
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L60
Location:	Dwight, IL
Latitude:	41-03-42.28N NAD 83
Longitude:	88-19-44.79W
Heights:	627 feet site elevation (SE)
	698 feet above ground level (AGL)
	1325 feet above mean sea level (AMSL)

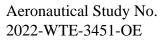
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X__ At least 60 days prior to start of construction (7460-2, Part 1) __X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L61
Location:	Dwight, IL
Latitude:	41-01-29.14N NAD 83
Longitude:	88-19-16.74W
Heights:	649 feet site elevation (SE)
	698 feet above ground level (AGL)
	1347 feet above mean sea level (AMSL)

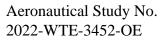
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X__ At least 60 days prior to start of construction (7460-2, Part 1) __X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L62
Location:	Dwight, IL
Latitude:	41-02-46.68N NAD 83
Longitude:	88-19-17.40W
Heights:	634 feet site elevation (SE)
	698 feet above ground level (AGL)
	1332 feet above mean sea level (AMSL)

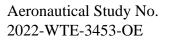
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X__ At least 60 days prior to start of construction (7460-2, Part 1) __X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L63
Location:	Dwight, IL
Latitude:	41-05-09.27N NAD 83
Longitude:	88-19-20.23W
Heights:	621 feet site elevation (SE)
	698 feet above ground level (AGL)
	1319 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X__ At least 60 days prior to start of construction (7460-2, Part 1) __X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3454-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L64
Location:	Dwight, IL
Latitude:	41-01-42.67N NAD 83
Longitude:	88-19-13.88W
Heights:	648 feet site elevation (SE)
	698 feet above ground level (AGL)
	1346 feet above mean sea level (AMSL)

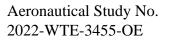
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L65
Location:	Dwight, IL
Latitude:	41-05-22.71N NAD 83
Longitude:	88-19-17.05W
Heights:	619 feet site elevation (SE)
	698 feet above ground level (AGL)
	1317 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X__ At least 60 days prior to start of construction (7460-2, Part 1) __X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3463-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L73 Updated Structure Name: Wind Turbine L66
Location:	Dwight, IL
Latitude:	41-02-08.36N NAD 83
Longitude:	88-18-43.57W
Heights:	648 feet site elevation (SE)
	698 feet above ground level (AGL)
	1346 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3458-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L68
Location:	Dwight, IL
Latitude:	41-04-18.10N NAD 83
Longitude:	88-19-07.40W
Heights:	623 feet site elevation (SE)
	698 feet above ground level (AGL)
	1321 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X__ At least 60 days prior to start of construction (7460-2, Part 1) __X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3459-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L69
Location:	Dwight, IL
Latitude:	41-02-30.93N NAD 83
Longitude:	88-19-03.09W
Heights:	641 feet site elevation (SE)
	698 feet above ground level (AGL)
	1339 feet above mean sea level (AMSL)

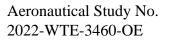
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X__ At least 60 days prior to start of construction (7460-2, Part 1) __X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L70
Location:	Dwight, IL
Latitude:	41-05-13.58N NAD 83
Longitude:	88-18-48.78W
Heights:	618 feet site elevation (SE)
	698 feet above ground level (AGL)
	1316 feet above mean sea level (AMSL)

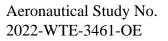
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L71
Location:	Dwight, IL
Latitude:	41-02-50.14N NAD 83
Longitude:	88-18-45.28W
Heights:	632 feet site elevation (SE)
	698 feet above ground level (AGL)
	1330 feet above mean sea level (AMSL)

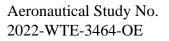
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X__ At least 60 days prior to start of construction (7460-2, Part 1) __X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L74
Location:	Dwight, IL
Latitude:	41-04-12.53N NAD 83
Longitude:	88-18-36.92W
Heights:	622 feet site elevation (SE)
	698 feet above ground level (AGL)
	1320 feet above mean sea level (AMSL)

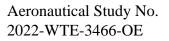
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L76
Location:	Dwight, IL
Latitude:	41-03-01.89N NAD 83
Longitude:	88-17-59.23W
Heights:	632 feet site elevation (SE)
	698 feet above ground level (AGL)
	1330 feet above mean sea level (AMSL)

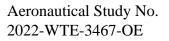
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L77
Location:	Dwight, IL
Latitude:	41-03-50.07N NAD 83
Longitude:	88-18-00.02W
Heights:	623 feet site elevation (SE)
	698 feet above ground level (AGL)
	1321 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X__ At least 60 days prior to start of construction (7460-2, Part 1) __X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3469-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L79
Location:	Dwight, IL
Latitude:	41-02-35.12N NAD 83
Longitude:	88-17-52.43W
Heights:	636 feet site elevation (SE)
	698 feet above ground level (AGL)
	1334 feet above mean sea level (AMSL)

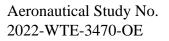
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L80
Location:	Dwight, IL
Latitude:	41-02-09.09N NAD 83
Longitude:	88-17-51.58W
Heights:	642 feet site elevation (SE)
	698 feet above ground level (AGL)
	1340 feet above mean sea level (AMSL)

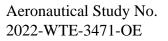
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X__ At least 60 days prior to start of construction (7460-2, Part 1) __X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L81
Location:	Dwight, IL
Latitude:	41-04-15.18N NAD 83
Longitude:	88-17-43.76W
Heights:	622 feet site elevation (SE)
	698 feet above ground level (AGL)
	1320 feet above mean sea level (AMSL)

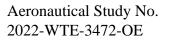
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X__ At least 60 days prior to start of construction (7460-2, Part 1) __X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L82
Location:	Dwight, IL
Latitude:	41-04-38.02N NAD 83
Longitude:	88-17-28.76W
Heights:	619 feet site elevation (SE)
	698 feet above ground level (AGL)
	1317 feet above mean sea level (AMSL)

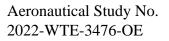
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X__ At least 60 days prior to start of construction (7460-2, Part 1) __X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L86
Location:	Dwight, IL
Latitude:	41-02-34.85N NAD 83
Longitude:	88-17-22.25W
Heights:	639 feet site elevation (SE)
	698 feet above ground level (AGL)
	1337 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3477-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L87
Location:	Dwight, IL
Latitude:	41-01-56.67N NAD 83
Longitude:	88-17-20.85W
Heights:	646 feet site elevation (SE)
	698 feet above ground level (AGL)
	1344 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X__ At least 60 days prior to start of construction (7460-2, Part 1) __X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3479-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L89
Location:	Dwight, IL
Latitude:	41-02-35.28N NAD 83
Longitude:	88-16-53.76W
Heights:	638 feet site elevation (SE)
	698 feet above ground level (AGL)
	1336 feet above mean sea level (AMSL)

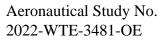
This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)





Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L91
Location:	Dwight, IL
Latitude:	41-02-08.47N NAD 83
Longitude:	88-16-48.62W
Heights:	644 feet site elevation (SE)
	698 feet above ground level (AGL)
	1342 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X__ At least 60 days prior to start of construction (7460-2, Part 1) __X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3485-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L95
Location:	Dwight, IL
Latitude:	41-04-20.44N NAD 83
Longitude:	88-15-47.58W
Heights:	621 feet site elevation (SE)
	698 feet above ground level (AGL)
	1319 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3487-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L97
Location:	Dwight, IL
Latitude:	41-04-08.87N NAD 83
Longitude:	88-15-39.10W
Heights:	620 feet site elevation (SE)
	698 feet above ground level (AGL)
	1318 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3488-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L98
Location:	Dwight, IL
Latitude:	41-02-36.20N NAD 83
Longitude:	88-15-21.41W
Heights:	639 feet site elevation (SE)
	698 feet above ground level (AGL)
	1337 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3489-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine Alt-L99 Updated Structure Name: Wind Turbine L99
Location:	Dwight, IL
Latitude:	41-05-02.55N NAD 83
Longitude:	88-21-53.35W
Heights:	625 feet site elevation (SE)
	698 feet above ground level (AGL)
	1323 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3494-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine Alt-L104 Updated Structure Name: Wind Turbine L104
Location:	Dwight, IL
Latitude:	41-04-30.45N NAD 83
Longitude:	88-20-19.61W
Heights:	625 feet site elevation (SE)
	698 feet above ground level (AGL)
	1323 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3490-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine Alt-L100 Updated Structure Name: Wind Turbine L105
Location:	Dwight, IL
Latitude:	41-04-11.56N NAD 83
Longitude:	88-20-12.63W
Heights:	627 feet site elevation (SE)
	698 feet above ground level (AGL)
	1325 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3445-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L55 Updated Structure Name: Wind Turbine L106
Location:	Dwight, IL
Latitude:	41-04-40.09N NAD 83
Longitude:	88-19-59.17W
Heights:	623 feet site elevation (SE)
	698 feet above ground level (AGL)
	1321 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)



Aeronautical Study No. 2022-WTE-4755-OE Prior Study No. 2022-WTE-3497-OE

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L107
Location:	Dwight, IL
Latitude:	41-01-01.27N NAD 83
Longitude:	88-20-48.98W
Heights:	655 feet site elevation (SE)
	698 feet above ground level (AGL)
	1353 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)



Aeronautical Study No. 2022-WTE-4756-OE Prior Study No. 2022-WTE-3499-OE

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L109
Location:	Dwight, IL
Latitude:	41-01-51.14N NAD 83
Longitude:	88-24-10.20W
Heights:	658 feet site elevation (SE)
	698 feet above ground level (AGL)
	1356 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3462-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L72 Updated Structure Name: Wind Turbine L113
Location:	Dwight, IL
Latitude:	41-05-36.81N NAD 83
Longitude:	88-18-48.48W
Heights:	616 feet site elevation (SE)
	698 feet above ground level (AGL)
	1314 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Aeronautical Study No. 2022-WTE-3392-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 03/16/2023

Allen Wynn Illinois Generation LLC - LC 1088 Sansome Street San Francisco, CA 94111

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Wind Turbine L2 Updated Structure Name: Wind Turbine L121
Location:	Dwight, IL
Latitude:	41-02-53.23N NAD 83
Longitude:	88-24-44.63W
Heights:	645 feet site elevation (SE)
	698 feet above ground level (AGL)
	1343 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, white paint/synchronized red lights-Chapters 4,13(Turbines),&15.

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It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

__X At least 60 days prior to start of construction (7460-2, Part 1)
 __X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

INTERFERENCE STUDY

Allen Wynn

From:	Allen Wynn
Sent:	Tuesday, March 26, 2024 2:29 PM
То:	jesse.king@vcom911.com
Subject:	Heritage Prairie Wind-Land Mobile and Emergency Services Report
Attachments:	Land Mobile and Emergency Services Report Heritage Prairie Wind Livingston County Feb 2024.pdf

Good Afternoon Jesse:

I hope you are enjoying your new position.

Attached you will find the Land Mobile and Emergency Service Report that was prepared for the Heritage Prairie wind project. As the report concludes, no interference is expected and all turbines are sited outside of FCC recommended setbacks.

Please let me know if you have any questions or would like to discuss. Also, could you please confirm receipt of this report?

Thank You.

Allen Wynn Senior Director, Environmental & Permitting

Direct: +1 713-308-4240 Mobile: +1 832-341-2592 <u>Allen.Wynn@patternenergy.com</u> - <u>patternenergy.com</u> 888 Westheimer Rd, Suite 350, Houston, TX 77006

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Allen Wynn

From:	Jesse King <jesse.king@vcom911.com></jesse.king@vcom911.com>
Sent:	Wednesday, March 27, 2024 6:50 AM
То:	Allen Wynn
Subject:	Re: Heritage Prairie Wind-Land Mobile and Emergency Services Report

This message came from outside of Pattern. Be careful with links and attachments.

Allen,

I have received your report.

Jesse King 911 Coordinator

Vermilion Valley Regional Emergency Communications Joint Authority



815-842-8084 844 W. Lincoln St. Suite B Pontiac, IL 61764

From: Allen Wynn <Allen.Wynn@patternenergy.com>
Sent: Tuesday, March 26, 2024 2:29 PM
To: Jesse King <jesse.king@vcom911.com>
Subject: Heritage Prairie Wind-Land Mobile and Emergency Services Report

Good Afternoon Jesse:

I hope you are enjoying your new position.

Attached you will find the Land Mobile and Emergency Service Report that was prepared for the Heritage Prairie wind project. As the report concludes, no interference is expected and all turbines are sited outside of FCC recommended setbacks.

Please let me know if you have any questions or would like to discuss. Also, could you please confirm receipt of this report?

Thank You.

Allen Wynn

....

Senior Director, Environmental & Permitting

Direct: +1 713-308-4240 Mobile: +1 832-341-2592 <u>Allen.Wynn@patternenergy.com</u> - <u>patternenergy.com</u> 888 Westheimer Rd, Suite 350, Houston, TX 77006

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UNITED STATES DEPARTMENT OF COMMERCE National Telecommunications and Information Administration Washington, D.C. 20230

January 22, 2024

Mr. Frank O'Brien COMSEARCH 19700 Janelia Farm Blvd. Ashburn, VA 20147

Re: Heritage Prairie Wind Energy Project (Livingston city): Kankakee, IL

Dear Mr. O'Brien:

In response to your request on January 25, 2023, the National Telecommunications and Information Administration provided to the federal agencies represented in the Interdepartment Radio Advisory Committee (IRAC) the plans for the Heritage Prairie Wind Energy Project (Kankakee city) located in Kankakee County, Illinois.

After a 45+ day period of review, no reviewing agencies, had concerning issues with turbine placement in this area.

The Department of Transportation (DOT) hereby withdraws its previous recommendation of a setback for this project. However, DOT continues to review and analyze the potential for harmful interference that might result from turbines placed within close proximity of rail, highway, and other transportation infrastructure, and reserves the right to make setback recommendations, or any other recommendation deemed necessary by the Department, on future projects. The POC information is: Wanda Covington-Ragsdale, DOT Spectrum Engineering Lead, U.S. Department of Transportation, Office of the Assistant Secretary for Research and Technology (OST-R), 1200 New Jersey Avenue, SE, Washington, DC 20590, phone: (202)-366-8422, w.covingtonragsdale@dot.gov.

Commerce has completed our review of the subject wind farm proposal and found the project area is over 59.0 km SSW of the Chicago, IL NEXRAD. Based upon distance and terrain this project appears to be radar neutral. No further contact with the developer is requested at this time.

While the IRAC agencies did not identify any concerns regarding radio frequency blockage, this does not eliminate the need for the wind energy facilities to meet any other requirements specified by law related to these agencies. For example, this review by the

IRAC does not eliminate any need that may exist to coordinate with the Federal Aviation

SUBJECT:Re:Heritage Prairie Wind Energy Project (Livingston city): Kankakee, ILDATE:January 22, 2024

Administration concerning flight obstruction.

Thank you for the opportunity to review these proposals.

Sincerely,

John R. McFall Deputy Chief, Spectrum Services Division Office of Spectrum Management

Wind Power GeoPlanner™

Land Mobile & Emergency Services Report

Heritage Prairie Wind



Prepared on Behalf of Illinois Generation LLC

February 20, 2024





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1. Introduction

An assessment of the emergency services in the Heritage Prairie Wind Project area was performed by Comsearch to identify potential impact from the planned turbines. We evaluated the registered frequencies for the following types of first responder entities: police, fire, emergency medical services, emergency management, hospitals, public works, transportation and other state, county, and municipal agencies. We also identified all industrial and business land mobile radio (LMR) systems and commercial E911 operators within the proposed wind energy facility boundaries. This information is useful in the planning stages of the wind energy facility because the data can be used in support of facility communications needs and to evaluate any potential impact on the emergency services provided in that region. An overview of the project area, which is located in Livingston County, Illinois, appears below in Figure 1.



Figure 1: Area of Interest (AOI)



2. Summary of Results

Our land mobile and emergency services incumbent data¹ was derived from the FCC's Universal Licensing System (ULS) and the FCC's Public Safety & Homeland Security bureau. We identified both site-based licenses as well as regional area-wide licenses designated for public safety use.

Site-Based Licenses

The site-based licenses were imported into GIS software and geographically mapped relative to the wind energy project area of interest as defined by the customer. Each site on the map was given an ID number and associated with site information in a data table. A depiction of the fixed-site licenses in the project area appears in Figure 2.

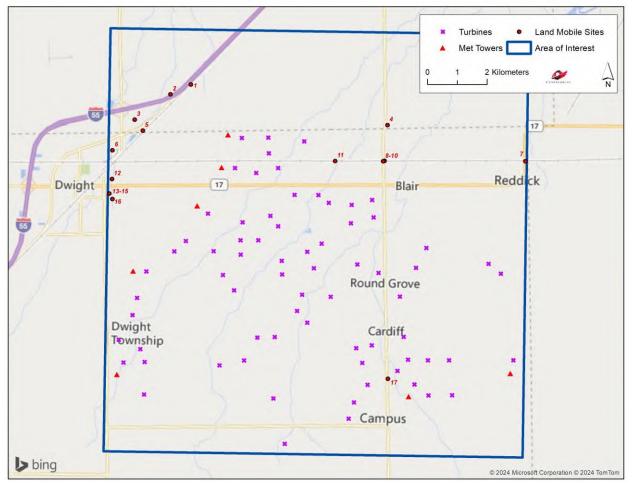


Figure 2: Land Mobile & Emergency Service Sites in Area of Interest

¹ Comsearch makes no warranty as to the accuracy of the data included in this report beyond the date of the report. The data presented in this report is derived from the land mobile station's FCC license and governed by Comsearch's data license notification and agreement located at http://www.comsearch.com/files/data_license.pdf



Figure 2 identifies seventeen site-based licenses in the Heritage Prairie Wind project area of interest. Specific information about these sites is provided in Table 1.

ID	Call Sign	Frequency Band (MHz)	Licensee	Antenna Height AGL (m)	Latitude (NAD83)	Longitude (NAD83)	Distance to Nearest Turbine (km)
1	WQKU939	150-174	Union Pacific Railroad Company	3.0	41.125278	-88.386389	2.48
2	WQKU939	150-174	Union Pacific Railroad Company	3.0	41.122222	-88.394444	2.80
3	WQTU833	450-470	Aldi Inc	13.4	41.114389	-88.408611	3.64
4	WQNS358	150-174	SEVERSON ENTERPRISES	23.0	41.113917	-88.307556	2.57
5	WQKU939	150-174	Union Pacific Railroad Company	3.0	41.111111	-88.405278	3.33
6	KBL646	150-174	RIBER CONSTRUCTION INC	27.0	41.105028	-88.417278	3.84
7	WQCN840	150-174	Norfolk Southern Railway Company	3.1	41.103639	-88.252250	3.66
8	WNYB406	150-174	Norfolk Southern Railway Company	3.1	41.103111	-88.308500	1.38
9	WQCB489	150-174	Norfolk Southern Railway Company	4.1	41.102972	-88.309056	1.35
10	WQHE218	150-174	Norfolk Southern Railway Company	4.1	41.102972	-88.309083	1.35
11	WQHE218	150-174	Norfolk Southern Railway Company	4.1	41.102833	-88.328278	1.23
12	WQOY493	450-470	AHW LLC	38.0	41.096333	-88.417278	3.20
13	WPFG523	450-470	Vermilion Valley Regional ETSB	30.5	41.091944	-88.418333	2.90
14	WPFG740	450-470	Vermilion Valley Regional ETSB	30.5	41.091944	-88.418333	2.90
15	WPGW541	450-470	Vermilion Valley Regional ETSB	45.7	41.091944	-88.418333	2.90
16	KVT268	450-470	ILLINOIS, STATE OF	14.0	41.090306	-88.417000	2.68
17	KNJP864	450-470	MASCHING, WILLIAM	58.0	41.037250	-88.305889	0.42

Table 1: Land Mobile & Emergency Service Sites in Area of Interest



Mobile Licenses

In addition to the fixed-site licenses above, 664 mobile licenses defined by center point and radius were found to intersect the Heritage Prairie Wind project area. Appendix A contains a tabular summary of these stations.

Area-Wide Licenses

The regional area-wide licenses were compiled from FCC data sources and identified for each county intersected by the wind energy project area. The Heritage Prairie Wind project is located in Livingston County, Illinois, part of Public Safety Region #13, which contains all the counties in Illinois, excluding the greater Chicago metropolitan area. The regional public safety operations are overseen by the entity listed below.

William J. Carter

Chairperson, Public Safety Region #13 Phone: 312-814-5208 Mobile: 312-793-7267 Email: wizard61@hotmail.com

The chairperson for Region #13 serves as the representative for all public safety entities in the area and is responsible for coordinating current and future public safety use in the wireless spectrum. In the bands licensed by the FCC for area-wide first responders, which include 220 MHz, 700 MHz, 800 MHz and 4.9 GHz, as well as the traditional Part 90 public safety pool of frequencies, fifty-two licenses were found for the State of Illinois and three for the County of Livingston (see Table 2). These area-wide licenses are designated for mobile use only.

ID	Licensee	Area of Operation	Frequency Band (MHz)
1	ADVANCED MEDICAL TRANSPORT OF CENTRAL ILLINOIS	Statewide: IL	150-174
2	ALEXIS NORTH HENDERSON AMBULANCE SERVICE	Statewide: IL	150-174
3	AMERICAN MEDICAL RESPONSE INC	Statewide: IL	150-174, 450-470
4	American National Red Cross	Statewide: IL	25-50
5	Beecher Fire Protection District	Statewide: IL	150-174
6	Buncombe Fire Department	Statewide: IL	150-174
7	BUNKER HILL, CITY OF	Statewide: IL	150-174
8	CARLINVILLE, CITY OF	Statewide: IL	150-174
9	CAVE EASTERN FIRE PROTECTION DISTRICT	Statewide: IL	150-174
10	CHARLESTON, CITY OF	Statewide: IL	150-174



ID	Licensee	Area of Operation	Frequency Band (MHz)
11	City of Chicago Heights Police Department	Statewide: IL	4940-4990
12	CLAY, COUNTY OF	Statewide: IL	150-174
13	Deaconess regional Healthcare Services Illinois, Inc	Statewide: IL	150-174
14	DOWNERS GROVE, VILLAGE OF	Statewide: IL	150-174, 450-470
15	EVERGREEN PARK, VILLAGE OF	Statewide: IL	150-174
16	Farina, Village of	Statewide: IL	150-174
17	GALESBURG HOSPITALS AMBULANCE SERVICE	Statewide: IL	150-174
18	GALVA, CITY OF	Statewide: IL	150-174
19	GLENDALE HEIGHTS, VILLAGE OF	Statewide: IL	150-174
20	Illinois Law Enforcement Alarm System	Statewide: IL	0-10
21	ILLINOIS LAW ENFORCEMENT ALARM SYSTEM (ILEAS)	Statewide: IL	25-50, 150-174, 450-470, 800/900
22	Illinois State Toll Highway Authority	Statewide: IL	0-10, 450-470, 800/900, 4940- 4990
23	Illinois, State of	Statewide: IL	0-10, 25-50, 150-174, 406-413, 421-430, 450-470, 769-775/799- 805, 800/900, 2450-2500
24	Illinois, State of Department of Transportation	Statewide: IL	0-10, 25-50, 150-174
25	JERSEY, COUNTY OF SHERIFF DEPARTMENT	Statewide: IL	150-174
26	JOHNSON COUNTY 9 1 1 ETSB	Statewide: IL	150-174
27	Lakeside EMS, LLC	Statewide: IL	150-174
28	LIVINGSTON COUNTY SHERIFF'S DEPT	Countywide: LIVINGSTON, IL	450-470, 800/900
29	Maine Township Emergency Management Agency	Statewide: IL	25-50, 150-174
30	MEDICONE MEDICAL RESPONSE	Statewide: IL	150-174
31	METAMORA, CITY OF	Statewide: IL	150-174
32	MIDLOTHIAN, VILLAGE OF	Statewide: IL	150-174
33	MORGAN COUNTY ESDA	Statewide: IL	150-174
34	MOUNT ZION FIRE PROTECTION DISTRICT	Statewide: IL	150-174



ID	Licensee	Area of Operation	Frequency Band (MHz)
35	MURPHYSBORO, CITY OF	Statewide: IL	150-174
36	MUTUAL AID BOX ALARM SYSTEM - IL	Statewide: IL	25-50, 150-174, 450-470
37	NATIONAL SKI PATROL SYSTEM INC	Statewide: IL	150-174
38	ONEIDA WATAGA FIRE PROTECTION DISTRICT	Statewide: IL	150-174
39	ORION FIRE PROTECTION DISTRICT	Statewide: IL	150-174
40	PARATECH AMBULANCE SERVICE INC	Statewide: IL	150-174
41	PATOKA FIRE PROTECTION DIST IL	Statewide: IL	150-174
42	RuralMed, LLC	Statewide: IL	150-174
43	Search And Rescue Mutual Aid (SARMA)	Statewide: IL	150-174
44	SOUTH EAST LIVINGSTON COUNTY AMBULANCE SERVICE, INC.	Countywide: LIVINGSTON, IL	150-174
45	SOUTH HOLLAND, VILLAGE OF	Statewide: IL	150-174
46	Stickney, Village of	Statewide: IL	150-174
47	Superior Air Ground Ambulance Inc.	Statewide: IL	150-174
48	TUSCARORA FIRE PROTECTION DISTRICT	Statewide: IL	150-174
49	United Life Care Ambulance Service Inc	Statewide: IL	150-174
50	United Medical Response, LLC	Statewide: IL	150-174
51	Vermilion Valley Regional ETSB	Countywide: LIVINGSTON, IL	150-174, 450-470
52	Village of University Park	Statewide: IL	150-174
53	WAYNE COUNTY AMBULANCE SERVICE	Statewide: IL	150-174
54	WEST CITY, VILLAGE OF	Statewide: IL	150-174
55	WILLIAMSFIELD FIRE PROTECTION DIST	Statewide: IL	150-174

Table 2: Regional Licenses



E911 Operators

Wireless operators are granted area-wide licenses from the FCC to deploy their cellular networks, which often include handsets with E911 capabilities. Since mobile phone market boundaries differ from service to service, we disaggregated the carriers' licensed areas down to the county level. We have identified the type of service for each carrier in Livingston County, Illinois, in Table 3.

Mobile Phone Carrier	Service ²
AT&T	700 MHz, AWS, Cellular, PCS, WCS
DISH Network	700 MHz, AWS
MTCO Communications	Cellular
T-Mobile	700 MHz, AWS, PCS
US Cellular	700 MHz
Verizon	700 MHz, AWS, PCS

 Table 3: Mobile Phone Carriers in Area of Interest with E911 Service

3. Impact Assessment

The first responder, industrial/business land mobile sites, area-wide public safety, and commercial E-911 communications as described in this report are typically unaffected by the presence of wind turbines, and we do not anticipate any significant harmful effect to these services in the Heritage Prairie Wind project area. Although each of these services operates in different frequency ranges and provides different types of service including voice, video and data applications, there is commonality among these different networks with regard to the impact of wind turbines on their service. Each of these networks is designed to operate reliably in a non-line-of-sight (NLOS) environment. Many land mobile systems are designed with multiple base transmitter stations covering a large geographic area with overlap between adjacent transmitter sites in order to provide handoff between cells. Therefore, any signal blockage caused by the wind turbines does not materially degrade the reception because the end user is likely receiving signals from multiple transmitter locations. Additionally, the frequencies of operation for these services have characteristics that allow the signal to

CELL: Cellular Service at 800 MHz

² AWS: Advanced Wireless Service at 1.7/2.1 GHz

PCS: Personal Communication Service at 1.9 GHz

WCS: Wireless Communications Service at 2.3 GHz

⁷⁰⁰ MHz: Lower 700 MHz Service



propagate through wind turbines. As a result, very little, if any, change in their coverage should occur when the wind turbines are installed.

When planning the wind energy turbine locations in the area of interest, a conservative approach would dictate not locating any turbines within 77.5 meters of land mobile fixed-base stations to avoid any possible impact to the communications services provided by these stations. This distance is based on FCC interference emissions from electrical devices in the land mobile frequency bands. As long as the turbines are located more than 77.5 meters from the land mobile stations, they will meet the setback distance criteria for FCC interference emissions in the land mobile bands.

4. Recommendations

In the event that a public safety entity believes its coverage has been compromised by the presence of the wind energy facility, it has many options to improve its signal coverage to the area through optimization of a nearby base station or even adding a repeater site. Utility towers, meteorological towers or even the turbine towers within the wind project area can serve as the platform for a base station or repeater site.

5. Contact

For questions or information regarding the Land Mobile & Emergency Services Report, please contact:

Contact person: Title: Company: Address: Telephone: Fax: Email:	David Meyer Senior Manager Comsearch 21515 Ridgetop Circle, Suite 300, Sterling, VA 20166 703-726-5656 703-726-5595 David.Meyer@CommScope.com
Web site:	www.comsearch.com



Appendix A

ID	Call Sign	Frequency Band (MHz)	Licensee	Mobile Area Radius (km)	Latitude (NAD83)	Longitude (NAD83)
1	WNWK609	450-470	2-WAY ELECTRONICS COMMUNICATIONS	120.0	41.542528	-87.037528
2	WRKP470	800/900	A BEEP LLC	88.0	41.565833	-88.062222
3	WPKU637	470-512	A BEEP, LLC	48.0	41.496417	-88.298944
4	WPMR376	450-470	A BEEP, LLC	32.0	41.122778	-87.893056
5	WPVQ487	450-470	A BEEP, LLC	32.0	41.318083	-88.634806
6	WPWW500	470-512	A BEEP, LLC	48.0	41.496417	-88.298944
7	WPYT234	150-174	A BEEP, LLC	40.0	41.496417	-88.298944
8	WQE1309	470-512	A BEEP, LLC	48.0	41.473056	-88.049694
9	WQHF981	470-512	A BEEP, LLC	48.0	41.304167	-88.175833
10	WQHJ429	450-470	A BEEP, LLC	32.0	41.304167	-88.175833
11	WQIH430	450-470	A Beep, LLC	32.0	41.304167	-88.175833
12	WQJD698	450-470	A BEEP, LLC	32.0	41.122778	-87.893056
13	WQKI908	470-512	A BEEP, LLC	48.0	41.496417	-88.298944
14	WRKP473	800/900	A BEEP, LLC	113.0	42.020000	-88.483611
15	WRKP743	800/900	A BEEP, LLC	88.0	41.565861	-88.062222
16	WRMF907	470-512	A BEEP, LLC	48.0	41.473056	-88.049694
17	WRXJ532	150-174	ABILITY TRANSPORTATION INC	64.0	41.445722	-88.206167
18	WRZH646	150-174	Abry, Jim	40.0	41.020000	-88.563611
19	WRBM329	800/900	ADDISON FIRE PROTECTION DISTRICT	113.0	41.914972	-88.002722
20	WRAT773	800/900	Addison, Village of	113.0	41.987667	-88.016583
21	WRAT773	800/900	Addison, Village of	113.0	41.913833	-88.014861
22	WRAT773	800/900	Addison, Village of	113.0	41.821361	-87.972667
23	WRAT773	800/900	Addison, Village of	113.0	41.730278	-87.969278



ID	Call Sign	Frequency Band (MHz)	Licensee	Mobile Area Radius (km)	Latitude (NAD83)	Longitude (NAD83)
24	WQXQ636	450-470	AEROPRES CORPORATION	48.0	41.387833	-88.300139
25	WQXQ636	450-470	AEROPRES CORPORATION	48.0	41.415111	-87.983361
26	WPAJ404	450-470	AFFILIATED CUSTOMER SERVICE	121.0	41.797528	-87.954778
27	WQNP347	450-470	AHW LLC	32.0	41.093694	-88.460944
28	WQOX297	450-470	AHW LLC	32.0	41.158194	-88.652028
29	WQOX540	450-470	AHW LLC	32.0	41.142694	-88.275556
30	WQOX540	450-470	AHW LLC	32.0	41.104583	-88.004111
31	WQOY493	450-470	AHW LLC	32.0	41.374528	-88.612000
32	WQOY493	450-470	AHW LLC	32.0	41.096333	-88.417278
33	WQOY493	450-470	AHW LLC	32.0	41.106778	-88.147583
34	WRUJ587	450-470	Air Products & Chemicals, Inc	32.0	41.413056	-88.328889
35	KB70306	450-470	ALARM DETECTION SYSTEMS	113.0	41.779750	-88.295917
36	KCX586	25-50	ALARM DETECTION SYSTEMS	113.0	41.779750	-88.296194
37	WNCG283	450-470	ALARM DETECTION SYSTEMS, INC.	112.0	41.779750	-88.296194
38	WPKN431	450-470	ALARM DETECTION SYSTEMS, INC.	120.0	41.780306	-88.296750
39	WPXK705	450-470	Alarm Detection Systems, Inc.	120.0	41.625361	-87.728417
40	WQTU833	450-470	Aldi Inc	13.0	41.114389	-88.408611
41	WPKT892	150-174	ALLEN TOWNSHIP FIRE PROTECTION DISTRICT	24.0	41.158361	-88.651444
42	WPPA619	450-470	ALLIANCE PIPELINE L P	32.0	41.411139	-88.298111
43	WQSE530	450-470	ALLIANCE SPECIALTY TRADES	80.0	41.672333	-88.074694
44	WPED653	450-470	ALPHA PRIME WIRELESS COMMUNICATIONS	113.0	41.530306	-87.805056
45	WPIX671	800/900	Ameren Services Company	113.0	40.791972	-89.619806
46	WPLY438	800/900	Ameren Services Company	113.0	41.063083	-89.585639
47	WPMP607	800/900	Ameren Services Company	113.0	40.794194	-89.198417



ID	Call Sign	Frequency Band (MHz)	Licensee	Mobile Area Radius (km)	Latitude (NAD83)	Longitude (NAD83)
48	WNXH406	450-470	American National Red Cross	80.0	41.307500	-88.146111
49	WPFZ494	150-174	AMITY, TOWNSHIP OF	32.0	40.988917	-88.740333
50	WQLV439	450-470	Andy Wurm Tire & Wheel Co Inc	320.0	38.740667	-90.304083
51	WNMQ237	450-470	AQUA LAND COMMUNICATIONS	120.7	41.614361	-87.188528
52	WNMQ237	450-470	AQUA LAND COMMUNICATIONS	120.7	41.522778	-87.024444
53	KD23109	150-174	Archer Daniels Midland Company	121.0	41.357250	-88.421167
54	WPPX534	150-174	Archer Daniels Midland Company	113.0	41.313361	-89.198139
55	WRJH392	150-174	B&B Ag. Products, Inc.	40.0	40.856667	-88.806667
56	WQRC450	150-174	BCS LLC	40.0	40.744222	-88.623139
57	WPMZ946	450-470	BEARDSLEY, CRAIG L	250.0	41.694194	-87.687556
58	WQYG630	150-174	BERG FARMS	80.0	41.501111	-88.386667
59	WQXF713	450-470	BERGLUND CONSTRUCTION COMPANY	120.0	41.844694	-87.957639
60	WQFB702	25-50, 150- 174, 450- 470, 470- 512, 800/900	B-K ELECTRIC INC	300.0	39.713278	-90.722639
61	KBB386	150-174	BNSF RAILWAY CO.	40.0	41.278361	-88.290139
62	KNCT660	150-174	BNSF Railway Co.	40.0	41.157167	-88.657833
63	WPWJ813	150-174	BNSF Railway Co.	32.0	41.399944	-88.147278
64	WPWJ813	150-174	BNSF Railway Co.	40.0	41.388417	-88.146167
65	WQOW598	150-174	BNSF Railway Co.	40.0	41.401694	-88.150306
66	WQOW598	150-174	BNSF Railway Co.	40.0	41.399583	-88.147028
67	WQLB828	150-174	BOUCHER, MATTHEW	40.0	41.118056	-88.500000
68	WRCH516	150-174	BOURBONNAIS ELEMENTARY SCHOOL DIST 53	40.0	41.179806	-87.891972
69	WNHE649	450-470	BOURBONNAIS, TOWNSHIP OF	32.0	41.122250	-87.950056
70	WQLC444	800/900	BP Products North America Inc.	113.0	41.650611	-87.506861



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71	WQLC444	800/900	BP Products North America Inc.	113.0	41.658389	-87.491611
72	WQLC444	800/900	BP Products North America Inc.	113.0	41.677583	-87.483306
73	WQAY427	150-174	BRACEVILLE VOLUNTEER FIRE DEPARTMENT	40.0	41.224194	-88.264222
74	WPEY520	150-174	BRADLE, ROGER	72.0	40.729194	-89.135083
75	WPPV420	150-174	BRAIDWOOD FIRE DEPARTMENT INC	16.0	41.264472	-88.230611
76	WPPV420	150-174	BRAIDWOOD FIRE DEPARTMENT INC	32.0	41.404361	-88.117583
77	WNNM518	150-174	BRAIDWOOD, CITY OF	19.0	41.264472	-88.230611
78	WPRI457	150-174	BRAIDWOOD, CITY OF	25.0	41.264194	-88.227000
79	WQUP972	150-174	BRESSNER, JEFF	45.0	40.877250	-88.772556
80	WPEM984	150-174	Bressner, Roger	40.0	40.886139	-88.672833
81	KB91386	450-470	BRINK'S INCORPORATED	121.0	41.874472	-87.639500
82	KD24524	450-470	BRINK'S INCORPORATED	121.0	41.950028	-88.066750
83	KD28608	450-470	BRINK'S INCORPORATED	121.0	40.695028	-89.592611
84	KD28612	450-470	BRINK'S INCORPORATED	121.0	41.783361	-89.191750
85	KD28613	450-470	BRINK'S INCORPORATED	121.0	40.783361	-88.250056
86	KD28616	450-470	BRINK'S INCORPORATED	121.0	41.566694	-87.500028
87	WQPC633	150-174	BROUGHTON, TOWNSHIP OF	15.0	40.958333	-88.358056
88	KNIA629	150-174	BROWN, GARY DBA G & J FARMS INC	32.0	40.820306	-88.383944
89	KZZ283	150-174	BUCKLEY FIRE PROTECTION DISTRICT	64.0	40.600028	-88.038917
90	KNDS826	150-174	CABERY AREA FIRE PROTECTION DISTRICT	32.0	40.995583	-88.206722
91	WPAW276	450-470	CAILTEUX, KENNETH	80.0	40.375306	-87.875306
92	WPEC498	450-470	CAILTEUX, KENNETH	80.0	40.930306	-87.932250
93	WPLD691	450-470	CAILTEUX, KENNETH J	32.0	41.016972	-87.904750
94	WQLP696	450-470	Cargill, Incorporated	32.0	41.354861	-88.425778
95	WQLP696	150-174	Cargill, Incorporated	40.0	41.354861	-88.425778



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96	WQLP696	450-470	Cargill, Incorporated	32.0	41.390528	-88.145222
97	WQLP696	150-174	Cargill, Incorporated	40.0	41.390528	-88.145222
98	WQNN319	150-174, 450-470, 470-512	CBS BROADCASTING INC.	100.0	41.883694	-87.629306
99	WPPZ694	150-174	CENTRAL UNIT 4 SCHOOL DISTRICT	32.0	41.016972	-87.904750
100	WRXE455	450-470	CERENITI DATASENSE NETWORKS	5.0	41.101250	-88.423639
101	KST435	150-174	CHEBANSE AG SERVICE INC	48.0	40.998917	-87.909750
102	WQWA212	450-470	CHELLINO CRANE	120.0	41.875722	-87.645500
103	KSI382	150-174	CHENOA COMMUNITY FIRE PROTECTION DISTRICT	40.0	40.741111	-88.710000
104	KUI731	150-174	CHENOA, CITY OF	40.0	40.743083	-88.715333
105	KZV881	150-174, 450-470	CHENOA, CITY OF	40.0	40.741111	-88.710000
106	WQTY827	450-470	CHEXX SYSTEMS	80.0	41.608583	-88.457306
107	WNAJ329	800/900	CHICAGO, CITY OF	113.0	41.977306	-87.904139
108	WQNZ370	150-174	CHIEF REDI-MIX, INC.	40.0	40.882778	-88.619444
109	WNWK651	150-174	Christensen, Ron D	121.0	41.082250	-86.856417
110	WQVD946	800/900	CITY COLLEGES OF CHICAGO	113.0	41.878000	-87.673639
111	WQVD946	800/900	CITY COLLEGES OF CHICAGO	113.0	41.780250	-87.643861
112	WNDW413	800/900	City of Chicago - Office of Public Safety Administration	113.0	41.885556	-87.620833
113	WNDV931	800/900	City of Naperville	121.0	41.878917	-87.636167
114	WNNL334	800/900	City of Naperville	121.0	41.878917	-87.636167
115	WQWP711	150-174	CL FARMS	40.0	41.320417	-88.773194
116	WQVA715	450-470	CLARK, BRENT A	32.0	40.960944	-88.601417
117	WQCV973	450-470	COAL CITY CUSD #1	32.0	41.288000	-88.300000
118	WNUF574	150-174	COAL CITY, VILLAGE OF	48.0	41.281694	-88.284222
119	WRE646	150-174, 450-470	COAL CITY, VILLAGE OF	24.0	41.281694	-88.285056



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120	WRKW464	450-470	Code Red Safety & Rental, LLC	32.0	41.414556	-88.184750
121	WPGE359	450-470	COLLEGE OF DU PAGE	121.0	41.843361	-88.083389
122	WRMP283	800/900	Commonwealth Edison Company	113.0	41.919722	-88.429500
123	WRMP283	800/900	Commonwealth Edison Company	113.0	41.981667	-88.242778
124	WRMP752	800/900	Commonwealth Edison Company	113.0	41.687250	-88.477556
125	WRMP752	800/900	Commonwealth Edison Company	113.0	42.051139	-87.754500
126	WRMP758	800/900	Commonwealth Edison Company	113.0	41.880556	-88.751389
127	WRMP758	800/900	Commonwealth Edison Company	113.0	41.388333	-88.281111
128	WRMP758	800/900	Commonwealth Edison Company	113.0	41.624167	-87.932222
129	WRMP758	800/900	Commonwealth Edison Company	113.0	41.208889	-87.913333
130	WRMP758	800/900	Commonwealth Edison Company	113.0	41.985278	-87.655556
131	WRMT870	800/900	Commonwealth Edison Company	113.0	41.041667	-88.765000
132	WRMT870	800/900	Commonwealth Edison Company	113.0	41.894722	-88.045556
133	WRMZ768	800/900	Commonwealth Edison Company	113.0	41.719444	-89.067222
134	WRMZ768	800/900	Commonwealth Edison Company	113.0	41.008056	-88.265833
135	WRMZ768	800/900	Commonwealth Edison Company	113.0	41.761972	-87.767250
136	WRMZ768	800/900	Commonwealth Edison Company	113.0	41.881583	-87.630583
137	WRMZ768	800/900	Commonwealth Edison Company	113.0	41.429167	-87.592222
138	WRMZ768	800/900	Commonwealth Edison Company	113.0	41.716139	-87.543917
139	WQWZ925	450-470	CONSOLIDATED DISTRIBUTION CORPORATION	24.0	41.340139	-88.210528
140	WQWZ925	450-470	CONSOLIDATED DISTRIBUTION CORPORATION	24.0	41.340139	-88.210500
141	WQOC703	450-470	Consolidated Grain & Barge	32.0	41.093694	-88.461000
142	WNCL915	216-220	Constellation Energy Generation, LLC	121.0	41.298361	-88.434778
143	WNCL915	216-220	Constellation Energy Generation, LLC	121.0	41.981417	-88.243139
144	WNPK678	800/900	Constellation Energy Generation, LLC	113.0	41.389750	-88.270333



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145	WNWY533	150-174, 450-470	Constellation Energy Generation, LLC	20.0	41.242528	-88.229500
146	WQCH324	150-174	Constellation Energy Generation, LLC	40.0	41.298889	-88.419722
147	WQHI515	450-470	Constellation Energy Generation, LLC	32.0	41.242528	-88.229500
148	WNNS514	800/900	COOK DUPAGE TRANSPORTATION COMPANY INC	113.0	41.937222	-88.124722
149	WNNS514	800/900	COOK DUPAGE TRANSPORTATION COMPANY INC	113.0	41.966139	-87.943889
150	WNNS514	800/900	COOK DUPAGE TRANSPORTATION COMPANY INC	113.0	41.878917	-87.636167
151	WNNS514	800/900	COOK DUPAGE TRANSPORTATION COMPANY INC	113.0	41.895861	-87.622556
152	WNNS514	800/900	COOK DUPAGE TRANSPORTATION COMPANY INC	113.0	41.553889	-87.371111
153	WQEL763	800/900	COOK DUPAGE TRANSPORTATION INC	113.0	41.512500	-88.255556
154	WQEL763	800/900	COOK DUPAGE TRANSPORTATION INC	113.0	41.708611	-87.783889
155	WQEL763	800/900	COOK DUPAGE TRANSPORTATION INC	113.0	41.620833	-87.681944
156	WQEL763	800/900	COOK DUPAGE TRANSPORTATION INC	113.0	41.878917	-87.636167
157	WPFV399	150-174	COOLEY, H MICHAEL	97.0	40.738917	-87.311972
158	KTE868	150-174	CORN BELT ENERGY CORPORATION	80.0	40.417667	-88.906500
159	WRAD322	450-470	Costco Wholesale	32.0	41.389917	-88.437417
160	WQZR562	450-470	Costco Wholesale Corporation	32.0	41.393556	-88.423861
161	WQSK637	150-174	CSX Transportation Inc	40.0	41.319667	-88.610278
162	WQSK637	150-174	CSX Transportation Inc	40.0	41.417444	-88.319806
163	KW8774	150-174	CULLOM FIRE PROTECTION DISTRICT	48.0	40.878917	-88.255333
164	KXH634	150-174	CULLOM FIRE PROTECTION DISTRICT	32.0	40.878917	-88.255333
165	WRCQ810	150-174	Custer Fire Protection District	32.0	41.248667	-88.135194
166	WPGQ917	450-470	D & I ELECTRONICS, INC.	121.0	41.564750	-88.219778
167	KVM538	150-174	DANFORTH, TOWNSHIP OF	64.0	40.824472	-87.976972



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168	WPNV723	150-174	DE PATIS, DARIN	40.0	40.916972	-87.806972
169	WPDT431	450-470	DEFENBAUGH, ANN	64.0	41.088917	-88.688389
170	WQSB645	150-174	DIEMER, DALE D	40.0	40.945556	-88.453333
171	WQGX719	450-470	DMC SECURITY SERVICES, INC.	80.0	41.625361	-87.728417
172	WPES847	25-50	DU PAGE, COUNTY OF	105.0	41.865861	-88.146472
173	WQTF323	150-174	DUFFY, STEVE	40.0	40.902472	-88.716833
174	WRAS761	450-470	Duffy-Baier-Snedecor Ambulance Service, LLC	32.0	40.881167	-88.628417
175	KNAB580	150-174	DUNELAND SCHOOL CORPORATION	121.0	41.581139	-87.045583
176	KSR490	800/900	DURHAM SCHOOL SERVICES	113.0	41.878917	-87.636167
177	WQWH629	450-470	DWIGHT TOWNSHIP HIGH SCHOOL DISTRICT 230	32.0	41.087167	-88.427111
178	KZZ342	150-174	DWIGHT, VILLAGE OF	16.0	41.092528	-88.429500
179	WPMN729	150-174	DWIGHT, VILLAGE OF	40.0	41.092528	-88.429500
180	WNKP742	150-174, 450-470	EASTERN ILLINI ELECTRIC COOPERATIVE	129.0	40.453083	-88.103111
181	KD42341	150-174	EASTERN MARSHALL COUNTY EMS	80.0	41.050028	-89.049250
182	WREQ921	450-470	EDF RENEWABLES	32.0	40.967278	-88.197361
183	WRFQ852	450-470	EDF Renewables Services, Inc.	32.0	40.967389	-88.171222
184	WRFR876	450-470	EDF Renewables Services, Inc.	32.0	41.014417	-88.031000
185	WQWN981	450-470	EDP RENEWABLES - TOP CROP WIND FARM	32.0	41.141917	-88.504111
186	KNIG682	150-174	Elliot, Randall	72.0	40.993083	-87.972278
187	KSG895	150-174	ELMHURST-CHICAGO STONE COMPANY	80.0	41.836139	-88.539250
188	KSG895	150-174	ELMHURST-CHICAGO STONE COMPANY	80.0	41.717250	-88.086167
189	WRJY591	150-174	ELWOOD FIRE PROTECTION DISTRICT	40.0	41.383556	-88.116750
190	WREM265	150-174	EMINGTON - CAMPUS FIRE PROTECTION DISTRICT	40.0	41.024889	-88.307944
191	KD3809	450-470	Enbridge Energy Company, Inc.	80.0	41.639444	-88.045278
192	KD3809	450-470	Enbridge Energy Company, Inc.	80.0	41.348889	-87.400556



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193	WQRD828	450-470	Enbridge Energy Company, Inc.	32.0	40.945111	-88.646000
194	WPHA781	800/900	ENERSTAR POWER COMPANY	113.0	41.301417	-88.953139
195	KC27732	450-470	ENTERCOM LICENSE, LLC	100.0	41.878917	-87.636167
196	WQUU475	450-470	ENTERCOM LICENSE, LLC	100.0	41.878889	-87.635917
197	KQT706	450-470	Equistar Chemicals, LP	32.0	41.413083	-88.331167
198	WNJF872	150-174, 450-470	Equistar Chemicals, LP	48.0	41.413083	-88.331167
199	WRVB270	150-174	Erschen, Frank	40.0	40.951667	-88.735278
200	WPIK959	450-470	ESP Wireless Technology Group, Inc	113.0	41.496417	-88.298944
201	WQRD737	150-174	ESSEX FIRE PROTECTION DIST	32.0	41.177278	-88.187083
202	WQQX430	25-50	ESSEX FIRE PROTECTION DISTRICT	16.0	41.169750	-88.186167
203	WQTG511	150-174	ESSEX, TOWNSHIP OF	32.0	41.173611	-88.195000
204	WPBE333	150-174, 450-470	ESSEX, VILLAGE OF	8.0	41.176417	-88.193944
205	WRKU312	800/900	Estate of Terry J Mack	113.0	41.610278	-88.439167
206	WQDX913	150-174	EXXON COMMUNICATIONS COMPANY	32.0	41.414194	-88.184778
207	WQVE754	450-470	FAIRBURY FIRE PROTECTION DISTRICT	32.0	40.747056	-88.518194
208	WRKP469	800/900	FBA Corporation	88.0	41.565833	-88.062222
209	WRKP469	800/900	FBA Corporation	113.0	41.878917	-87.636167
210	WRVH880	800/900	FBA Corporation	113.0	41.496417	-88.298944
211	WRVH880	800/900	FBA Corporation	113.0	41.565833	-88.062222
212	KB78213	450-470	FCA US LLC	120.7	41.874472	-87.639500
213	WQTN610	150-174	FEHR, DARREN	40.0	40.982194	-88.644861
214	KAN885	800/900	First Student Inc	113.0	41.895861	-87.622556
215	KNGL509	800/900	First Student Inc	98.0	41.863917	-88.113944
216	KSF842	150-174	FIRST STUDENT INC	40.0	41.238639	-88.830083
217	WNVE333	800/900	First Student Inc	113.0	41.922250	-88.751750



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218	WPXG762	150-174	First Student Inc	40.0	41.131194	-87.830333
219	WNZW397	150-174	FORD, COUNTY OF Ford 911	40.0	40.758361	-88.191694
220	WQNZ372	150-174	FORREST REDI- MIX, INC.	40.0	40.737500	-88.416667
221	WQPP891	150-174	FOX, BRODY	121.0	40.497167	-87.417083
222	WQTL950	150-174	FOX, RICH	40.0	40.991250	-88.412917
223	WPWY702	800/900	Francis Ms., Bini	113.0	40.180861	-88.317833
224	WRAM333	150-174	FREEDOM EMS LLC	64.0	41.310972	-88.138250
225	WNUF738	450-470	FROELICH, GENE:FROELICH, MARK E DBA F TROOP FARMS	32.0	40.807528	-88.155611
226	WPKL271	450-470	FSS Technologies, L.L.C.	120.0	41.755583	-87.956444
227	WPKL974	150-174	Gardner Fire Protection District	40.0	41.183361	-88.305889
228	WREN957	450-470	GARDNER SOUTH WILMINGTON HIGH SCHOOL DISTRICT 73	8.0	41.193722	-88.305972
229	WNKQ387	450-470	GARY DIETRICH FARMS	48.0	41.028361	-87.819750
230	WRAI201	450-470	Gavilon Fertilizer	32.0	41.315806	-88.657861
231	WRWS668	450-470	GCS SUPPLY, LLC.	80.0	41.701389	-88.008889
232	WNQT248	25-50	GODLEY PARK DISTRICT	32.0	41.233361	-88.246444
233	WNSK382	800/900	GRAINCO FS INC	48.0	41.496417	-88.298944
234	WPGH577	450-470	GRAINLAND COOPERATIVE	80.0	40.744472	-89.134806
235	WQZU398	150-174	GRAND RIDGE GRADE SCHOOL	40.0	41.237778	-88.835556
236	WQMI710	470-512	GRAY TELEVISION LICENSEE, LLC	270.0	41.528639	-90.573444
237	WRKX844	800/900	GREENPORT PROPERTIES, LLC	88.0	41.565833	-88.062222
238	WPZW710	150-174, 450-470	GREMLEY & BIEDERMANN	160.0	41.962500	-87.732500
239	KC25310	450-470	GRUNDY COUNTY BROADCASTERS, INC.	48.3	41.293083	-88.334500
240	WPMX444	150-174	Grundy County E T S B	30.0	41.307528	-88.414778
241	WPMH798	150-174, 450-470	GRUNDY COUNTY E.T.S.B.	40.0	41.307500	-88.414722
242	WPOY799	150-174	GRUNDY COUNTY E.T.S.B.	40.0	41.358639	-88.422556



ID	Call Sign	Frequency Band (MHz)	Licensee	Mobile Area Radius (km)	Latitude (NAD83)	Longitude (NAD83)
243	WPUI945	800/900	GRUNDY COUNTY E.T.S.B.	40.0	41.285861	-88.430333
244	WQBY987	800/900	GRUNDY COUNTY E.T.S.B.	40.0	41.285861	-88.430333
245	WNWF904	450-470	Grundy County ETSB	29.0	41.307500	-88.414722
246	WQJZ345	800/900	GRUNDY COUNTY ETSB	35.0	41.285861	-88.430333
247	KGL514	25-50	GRUNDY, COUNTY OF	32.0	41.371139	-88.432833
248	KGL583	25-50, 150- 174	GRUNDY, COUNTY OF	32.0	41.371139	-88.432833
249	WPEP959	25-50	GRUNDY, COUNTY OF	113.0	41.371139	-88.432833
250	WQRJ756	150-174	GTC SPECTRUM CORPORATION	40.0	41.395306	-88.297278
251	WPPD445	150-174	GUNDERSEN LUTHERAN MEDICAL CENTER	600.0	43.794417	-91.249583
252	WQUU959	150-174	HAAS, JEREMY	40.0	40.850000	-88.663889
253	WPBS287	450-470	Hagenbuch Hag, Henry	64.0	41.454194	-88.961750
254	WRMB900	150-174	HALEY BROTHERS FARMS LLC	40.0	40.919000	-88.091556
255	WPGV881	150-174	HAMSTRA, GARY	121.0	41.173639	-87.179194
256	KSU993	150-174	Haney, Daryl	56.0	40.755583	-88.691722
257	WNPY659	450-470	Haney, Daryl	56.0	40.734194	-88.789222
258	WNBS407	450-470	HANSEN, DONALD	56.0	40.576694	-88.243111
259	WPZZ858	450-470	Hardee's Food Systems, LLC	121.0	40.138556	-87.630333
260	WQZB989	450-470	HARFORD FARMS	30.0	41.241694	-88.425889
261	WRKR329	150-174	Harms, Paul E	40.0	40.803250	-88.439528
262	WPGX814	150-174	HARMS, RONALD J	48.0	41.023917	-88.894528
263	WRNS818	150-174	Harrison, David	40.0	40.704167	-88.658889
264	WQKZ728	150-174	HARTMAN, JOHN	48.0	40.686111	-88.484722
265	WQI355	150-174	HELENA AGRI-ENTERPRISES, LLC	121.0	41.002250	-89.132028
266	WPEY269	150-174	HERITAGE FS INC	121.0	40.572250	-88.247278
267	WPEY269	150-174	HERITAGE FS INC	121.0	40.569167	-88.247111



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268	WPEY269	150-174	HERITAGE FS INC	121.0	40.750583	-87.996694
269	WPEY269	150-174	HERITAGE FS INC	121.0	40.768917	-87.922528
270	WPEY269	150-174	HERITAGE FS INC	121.0	40.555306	-87.885306
271	WPEY269	150-174	HERITAGE FS INC	121.0	40.538361	-87.680861
272	WQTU608	150-174	HERITAGE FS INC	40.0	40.743611	-87.998333
273	WPGV644	150-174	Heritage FS, Inc.	40.0	40.818500	-88.289250
274	WPGV644	150-174	Heritage FS, Inc.	80.0	41.241694	-87.633361
275	WPWF314	450-470	HERSCHER COMMUNITY UNIT SCHOOL DIST. #2	32.0	41.049889	-88.096111
276	WNSP531	150-174	HITCHINGS, MELVIN	121.0	40.889472	-87.117250
277	KUL525	150-174	Hodel Brothers Farms	80.0	40.774194	-89.192861
278	WRKP330	450-470	Hoffman Transportation	32.0	41.261306	-88.276611
279	KC25111	450-470	HOLY FAMILY COMMUNICATIONS, INC	402.0	40.766167	-83.837167
280	WQYN709	450-470	Hoosier Energy Rural Electric Cooperative, Inc.	32.0	40.931500	-88.655472
281	WNFU757	150-174	HUSTEDT, CHRISTOPHER R	56.0	41.418083	-88.444500
282	WQHN319	150-174	IFFT, MATTHEW D	80.0	40.752778	-88.325000
283	KDM489	150-174	ILLINOIS CENTRAL RAILROAD COMPANY	40.0	41.130028	-87.858389
284	KGJ580	150-174	ILLINOIS CENTRAL RAILROAD COMPANY	40.0	40.787250	-87.988361
285	KQU228	150-174	ILLINOIS CENTRAL RAILROAD COMPANY	40.0	41.128639	-87.864500
286	WNHW924	150-174	ILLINOIS CENTRAL RAILROAD COMPANY	40.0	40.787250	-87.988361
287	WPKF630	150-174	ILLINOIS CENTRAL RAILROAD COMPANY	40.0	41.128639	-87.864500
288	WQWF257	450-470	ILLINOIS CENTRAL SCHOOL BUS	32.0	41.354722	-88.498611
289	WQWF517	450-470	ILLINOIS CENTRAL SCHOOL BUS	32.0	41.018611	-88.593889
290	WQWF517	450-470	ILLINOIS CENTRAL SCHOOL BUS	32.0	41.386583	-88.439944
291	WQCT757	800/900	Illinois Cooperative Association, Inc.	56.0	41.301389	-88.953056
292	KNET289	800/900	Illinois Cooperative dba Clear Talk	113.0	41.309750	-88.812306



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293	WNMO293	800/900	Illinois Cooperative dba Clear Talk	113.0	40.793639	-87.754750
294	WNWB448	800/900	Illinois Cooperative dba Clear Talk	113.0	41.151139	-87.855611
295	WPBZ996	800/900	Illinois Cooperative dba Clear Talk	113.0	41.106694	-87.888389
296	WPER444	800/900	Illinois Cooperative dba Clear Talk	113.0	40.126389	-88.290278
297	WPHA805	800/900	Illinois Cooperative dba Clear Talk	113.0	40.161417	-87.696417
298	WPHA808	800/900	Illinois Cooperative dba Clear Talk	113.0	40.891417	-88.445889
299	WPHN431	800/900	Illinois Cooperative dba Clear Talk	70.0	41.077528	-87.756139
300	WPJK853	800/900	Illinois Cooperative dba Clear Talk	113.0	40.645833	-89.179167
301	WPLY587	800/900	Illinois Cooperative dba Clear Talk	113.0	40.645833	-89.179167
302	WPLY617	800/900	Illinois Cooperative dba Clear Talk	90.0	41.301389	-88.953056
303	WPMD703	800/900	Illinois Cooperative dba Clear Talk	113.0	41.077528	-87.756139
304	WPMD731	800/900	Illinois Cooperative dba Clear Talk	113.0	40.891417	-88.445889
305	WPMF885	800/900	Illinois Cooperative dba Clear Talk	113.0	41.372222	-89.487778
306	WPPA251	800/900	Illinois Cooperative dba Clear Talk	113.0	41.336972	-88.763972
307	WPPA256	800/900	Illinois Cooperative dba Clear Talk	113.0	41.871111	-89.020833
308	WPRG706	800/900	Illinois Cooperative dba Clear Talk	113.0	40.884222	-88.742444
309	WPRG707	800/900	Illinois Cooperative dba Clear Talk	113.0	41.138889	-87.852194
310	WPRG708	800/900	Illinois Cooperative dba Clear Talk	113.0	40.793611	-87.754722
311	WPRH230	800/900	Illinois Cooperative dba Clear Talk	113.0	40.161528	-87.696444
312	WPSM625	800/900	Illinois Cooperative dba Clear Talk	113.0	40.508333	-88.987500
313	WPSM641	800/900	Illinois Cooperative dba Clear Talk	113.0	40.644722	-89.179722
314	WPST700	800/900	Illinois Cooperative dba Clear Talk	113.0	40.733056	-89.486111
315	WPSU481	800/900	Illinois Cooperative dba Clear Talk	113.0	40.508333	-88.987500
316	WPTF624	800/900	Illinois Cooperative dba Clear Talk	113.0	40.126389	-88.290278
317	WPTF927	800/900	Illinois Cooperative dba Clear Talk	112.0	40.126389	-88.290278



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318	WPUI397	800/900	Illinois Cooperative dba Clear Talk	113.0	40.161528	-87.696444
319	WNMF342	800/900	ILLINOIS PUBLIC SAFETY AGENCY NETWORK	113.0	41.918639	-88.235917
320	WNXS419	800/900	ILLINOIS PUBLIC SAFETY AGENCY NETWORK	112.7	40.729750	-89.554806
321	WPKG583	800/900	ILLINOIS PUBLIC SAFETY AGENCY NETWORK	80.0	41.583361	-88.083389
322	WPKI933	800/900	ILLINOIS PUBLIC SAFETY AGENCY NETWORK	97.0	41.864750	-87.887000
323	WPKI933	800/900	ILLINOIS PUBLIC SAFETY AGENCY NETWORK	55.0	41.156694	-87.871167
324	WRWP572	450-470	Illinois State Rifle Association	32.0	41.140278	-88.009722
325	WQTP507	150-174	Illinois Transport Inc	40.0	41.335889	-88.095139
326	KEO371	150-174	ILLINOIS, STATE OF	64.0	41.363056	-89.098611
327	KNFB428	450-470	ILLINOIS, STATE OF	64.0	41.579194	-88.083389
328	WPLH933	150-174	ILLINOIS, STATE OF	95.0	41.866694	-88.100056
329	WPNQ269	800/900	ILLINOIS, STATE OF	20.0	41.095306	-88.474778
330	WQAZ301	800/900	ILLINOIS, STATE OF	32.0	41.285861	-88.430333
331	WQCW207	800/900	ILLINOIS, STATE OF	32.0	40.869250	-88.641472
332	WQDC310	800/900	ILLINOIS, STATE OF	32.0	40.883361	-87.970583
333	WRNU712	450-470	Immke, Don	48.0	40.855000	-88.408333
334	WPXR836	450-470	IMTT-Illinois LLC	32.0	41.414194	-88.202000
335	WNVW879	800/900	INCOBRASA INDUSTRIES, LTD.	56.0	40.761694	-88.014750
336	WQKF981	150-174	INDIAN GROVE TOWNSHIP	40.0	40.741972	-88.514222
337	WRKP471	800/900	Infinite Inet, Inc	88.0	41.565833	-88.062222
338	WRFM568	150-174	INFRA METALS CORPORATION	32.0	41.318611	-88.682500
339	KXZ315	150-174	JAKOB, WILLARD	56.0	40.960583	-88.036722
340	WQBV416	150-174	Jehle Bros., Inc.	40.0	40.878083	-88.269444
341	WROD702	450-470	JGB SECURITY AND CONSULTING INC	64.0	41.531972	-87.873944
342	KDI634	150-174	JOHNSON, DAVID E	40.0	41.129750	-87.868111



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343	WRUG745	450-470	Johnson, Howard	32.0	41.266694	-88.600083
344	WPJT201	800/900	JOLIET, CITY OF	113.0	41.524194	-88.085056
345	WQZZ455	769- 775/799-805	JOLIET, CITY OF	40.0	41.285861	-88.430333
346	WRAQ941	769- 775/799-805	JOLIET, CITY OF	40.0	41.435389	-88.183333
347	WQBY340	150-174	JOYCE, MARTY	40.0	41.158361	-88.242556
348	WRWD568	450-470	K BROS LLC	32.0	41.008556	-88.731611
349	WQTA695	150-174	KAFER TILING & EXCAVATING, INC.	40.0	40.746139	-88.491806
350	WRFC799	150-174	KAMINKE, TOM	40.0	40.988056	-88.873056
351	KA92936	150-174	Kankakee County Sheriff's Department	51.0	41.117806	-87.860889
352	WNYU311	150-174	Kankakee County Sheriff's Department	40.0	41.119472	-87.860611
353	WRDZ975	150-174	KANKAKEE SCHOOL DISTRICT	40.0	41.114639	-87.832583
354	WNGD750	150-174	KANKAKEE, COUNTY OF	40.0	41.116972	-87.861722
355	WPBV982	150-174	KANKAKEE, COUNTY OF	40.0	41.117778	-87.860833
356	WQBU816	150-174	KANKAKEE, COUNTY OF	40.0	41.076139	-87.859472
357	WPUY811	450-470	Keltron Corporation	120.0	41.672222	-88.004167
358	WPYS418	450-470	Keltron Corporation	120.0	41.932222	-88.178611
359	WQKZ718	450-470	Keltron Corporation	80.0	41.750278	-88.003500
360	WQKZ719	450-470	Keltron Corporation	80.0	41.780722	-87.893361
361	WQKZ720	450-470	Keltron Corporation	80.0	41.766083	-88.059944
362	KBS718	150-174	KENDALL COUNTY CONCRETE	120.7	41.500028	-88.500083
363	WQVS245	450-470	Kensing, LLC	32.0	41.085556	-87.879722
364	WNLP353	150-174	KOELLER, JAN	56.0	40.898639	-88.872306
365	WRDG655	150-174	KURTZ AMBULANCE SERVICE	80.0	41.514972	-88.000972
366	KWK423	150-174	LANDER, WILLIAM A	40.0	41.125028	-88.838694
367	KWK423	150-174	LANDER, WILLIAM A	40.0	41.373361	-88.417000



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368	KWK423	150-174	LANDER, WILLIAM A	40.0	41.325583	-88.248111
369	KWK423	150-174	LANDER, WILLIAM A	40.0	41.339194	-88.195611
370	KWK423	150-174	LANDER, WILLIAM A	40.0	41.309750	-88.148111
371	WQOK773	450-470	LAZY H INC.	32.0	40.893306	-88.405889
372	WQOX691	450-470	LEWIS UNIVERSITY	80.0	41.602778	-88.080278
373	WPNP415	450-470	LIFE CARE RETIREMENT COMMUNITIES INC DBA BEACON HILL	80.0	41.840833	-88.026111
374	WPOY842	150-174	LIMESTONE FIRE PROTECTION DISTRICT	40.0	41.117528	-87.965333
375	WRAN408	150-174	LIMESTONE TOWNSHIP RD DISTRICT	40.0	41.117111	-87.964889
376	WQQV800	450-470	LIVINGSTON LANDFILL DIVISION OF REPUBLIC SERVICES	32.0	40.931889	-88.662250
377	WRDH542	450-470	LIVINGSTON STONE, INC.	32.0	40.795778	-88.619806
378	WNDG589	150-174	LOTTINVILLE FARMS INC	56.0	41.021972	-87.709194
379	WRXW773	450-470	LSC COMMUNICATIONS MCL	80.0	41.660944	-88.109889
380	WRDG977	150-174	Lucas Ambulance & Medi-Car Service, Inc.	161.0	41.760361	-87.860917
381	WRPY533	450-470	LUKOW BROS FARMS	40.0	41.015694	-87.904194
382	WNPZ490	150-174	LYONS, LAWRENCE	64.0	41.442806	-88.782861
383	WNWW223	150-174	MANTENO, CITY OF	80.0	41.251694	-87.833667
384	WQSD591	150-174	MARSEILLES AREA AMBULANCE SERVICE	40.0	41.328361	-88.700083
385	WRZL420	450-470	MARSEILLES SCHOOL DISTRICT	32.0	41.324306	-88.697278
386	KNJP864	450-470	MASCHING, WILLIAM	48.0	41.037250	-88.305889
387	WPHZ795	450-470	MATERIAL SERVICE CORPORATION	80.0	41.327806	-88.483389
388	KRB443	150-174	MAZON FIRE PROTECTION DISTRICT	32.0	41.238917	-88.423667
389	WQFQ273	150-174	MAZON VERONA KINSMAN AMBULANCE SQUAD	40.0	41.238917	-88.423667
390	KLK903	150-174	MC ILVAINE, CLIFFORD J	121.0	41.901972	-88.317861
391	WQZF281	450-470	McGreal, Tim	32.0	40.739444	-88.250000



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392	KAW751	150-174	MEYER JR, JOHN A	40.0	41.251139	-88.103111
393	WQPF208	150-174	MILKS GROVE TOWNSHIP	32.0	40.939500	-88.093528
394	WQTM803	450-470	MILLER AND COMPANY	32.0	41.308583	-88.598778
395	WPZP763	450-470	MILNER MEDIA PARTNERS, LLC	40.0	41.160833	-87.875000
396	WQJA559	150-174	Minooka High School District 111	40.0	41.417139	-88.256889
397	WQYJ761	150-174	MINOOKA SCHOOL DISTRICTS 111 & 201	40.0	41.433500	-88.268972
398	WRDZ289	800/900	Mobile Relay Associates, LLC	113.0	41.878917	-87.636167
399	WQNZ921	450-470	MORRIS COMMUNITY HIGH SCHOOL DISTRICT # 101	32.0	41.364861	-88.432917
400	WPYT671	450-470	MORRIS HOSPITAL & HEALTH CARE CENTERS	32.0	41.369389	-88.426556
401	KB75622	150-174	MORRIS, CITY OF	40.0	41.358639	-88.425333
402	WRMY753	150-174	Moser Holdings, Inc.	40.0	40.715000	-88.542778
403	WNRG952	800/900	MOTOROLA SOLUTIONS, INC.	113.0	42.065028	-88.048417
404	WNSN246	800/900	MOTOROLA SOLUTIONS, INC.	113.0	42.062528	-88.052306
405	WPIG593	150-174	NAFFZIGER, RONALD	121.0	40.665306	-89.463694
406	WQVL794	450-470	NAGEL FARMS	80.0	41.820250	-88.723750
407	WQCM665	450-470	NEWTOWN, TOWNSHIP OF	32.0	41.069472	-88.780639
408	WQVZ521	800/900	NEXGEN COMMUNICATIONS CORP.	113.0	41.415278	-88.271944
409	WRMU515	800/900	NEXGEN COMMUNICATIONS CORPORATION	113.0	41.885306	-87.621583
410	WNRO588	150-174	NILES, VIRGIL L	48.0	40.618639	-88.143944
411	WNPH280	150-174	Noe Farms	80.0	40.342528	-88.484500
412	KTE293	150-174	Norfolk Southern Railway Company	40.0	41.098417	-88.811528
413	KTE293	150-174	Norfolk Southern Railway Company	40.0	41.103806	-88.250944
414	KTE293	150-174	Norfolk Southern Railway Company	40.0	41.121778	-87.910250
415	WQCB489	150-174	Norfolk Southern Railway Company	16.0	41.102972	-88.309056
416	WQCB489	150-174	Norfolk Southern Railway Company	16.0	41.104750	-88.211639



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417	WQGV447	150-174	Norfolk Southern Railway Company	16.0	41.106000	-88.172806
418	WQGV447	150-174	Norfolk Southern Railway Company	16.0	41.106972	-88.146861
419	WQHE218	150-174	Norfolk Southern Railway Company	16.0	41.102833	-88.328278
420	WQHE218	150-174	Norfolk Southern Railway Company	16.0	41.102972	-88.309083
421	WQRQ302	150-174	Norfolk Southern Railway Company	8.0	41.103639	-88.252250
422	WQRZ209	150-174	Norfolk Southern Railway Company	8.0	41.103056	-88.308472
423	WNIY497	150-174	NORTHEAST ILLINOIS REGIONAL COMMUTER RAILROAD CORPORATION	80.0	41.655583	-87.676722
424	WNJS224	150-174	Northeast Illinois Regional Commuter Railroad Corporation	72.0	41.524167	-88.072500
425	WNAS534	800/900	NORTHERN INDIANA PUBLIC SERVICE COMPANY	113.0	41.216694	-87.022528
426	WNAS534	800/900	NORTHERN INDIANA PUBLIC SERVICE COMPANY	177.0	41.116167	-86.163889
427	WNVR293	800/900	Northern Indiana Public Service Company	177.0	41.116167	-86.163889
428	WPAH495	800/900	NORTHERN INDIANA PUBLIC SERVICE COMPANY	257.0	41.116167	-86.163889
429	WQSJ209	450-470	NORTHERN INDIANA PUBLIC SERVICE COMPANY	257.0	41.116167	-86.163889
430	KB64148	150-174	NORTHWEST HOMER FIRE PROTECTION DISTRICT	58.0	41.622250	-87.992000
431	KSK362	150-174	NORTON TOWNSHIP	40.0	41.050028	-88.181722
432	KNFR505	450-470	NOTTKE, ALAN R	56.0	40.925583	-87.922528
433	WPXW241	450-470	NUTRIEN AG SOLUTIONS INC	32.0	40.738889	-88.511111
434	WRKQ397	450-470	O CONNOR, MARK P	32.0	41.078528	-87.963583
435	WNFH351	150-174	OAKWOOD COMMUNITY UNIT 76	121.0	40.113639	-87.828083
436	WPML765	150-174	ODELL, TOWNSHIP OF	32.0	40.997528	-88.518667
437	WNQJ460	150-174	OGLESBY, CITY OF	103.0	41.297250	-89.061194
438	WRFQ501	450-470	OHIO SEMITRONICS OF CA, INC	80.0	41.588389	-88.161194
439	WRFQ502	450-470	OHIO SEMITRONICS OF CA, INC	80.0	41.649000	-87.823139
440	WRYT529	450-470	Ohio Semitronics of California, Inc.	80.0	40.961472	-88.544861



ID	Call Sign	Frequency Band (MHz)	Licensee	Mobile Area Radius (km)	Latitude (NAD83)	Longitude (NAD83)
441	KPH391	450-470	OLIVET NAZARENE UNIVERSITY	32.0	41.156694	-87.871167
442	WQMJ670	450-470	OLIVET NAZARENE UNIVERSITY	32.0	41.156667	-87.871111
443	WQIS472	450-470	OLSON, DONNA J	32.0	41.158278	-88.651500
444	WQTE615	450-470	ONEOK INC.	32.0	41.412194	-88.343583
445	WRXN259	450-470	Operating Engineers Local 150	32.0	41.339917	-88.084889
446	WPPY924	150-174	Orland Fire protection District	40.0	41.358639	-88.422556
447	WPPY924	150-174	Orland Fire protection District	40.0	41.083917	-87.878944
448	WNWC408	150-174	OSF Healthcare System, d/b/a OSF Heart of Mary Medical Center (Urbana)	121.0	40.117778	-88.227500
449	WRYG510	150-174	Ottawa Elementary School District #141	40.0	41.323806	-88.828000
450	WREC954	450-470	Otter Creek Wind, LLC	32.0	41.114000	-88.719083
451	WNVH434	800/900	P T FERRO CONSTRUCTION CO	64.0	41.565861	-88.062278
452	WPFF640	800/900	PACE SUBURBAN BUS SERVICE OF THE RTA	113.0	41.853361	-87.917833
453	WQML646	150-174	PACIFIC RAIL SERVICES	40.0	41.479111	-88.118083
454	WPKZ525	450-470	PANDUIT CORPORATION	120.0	41.590028	-88.020056
455	WPXF228	150-174	PARSEC, INC	40.0	41.388333	-88.146222
456	KNNW324	450-470	PAYNE, RON	32.0	41.237528	-87.895333
457	KNNK875	800/900	PDV Spectrum Holding Company, LLC	113.0	41.870000	-88.298333
458	KNNK875	800/900	PDV Spectrum Holding Company, LLC	113.0	41.301111	-87.826389
459	KNNK875	800/900	PDV Spectrum Holding Company, LLC	112.0	41.878917	-87.636167
460	WNIC991	800/900	PDV Spectrum Holding Company, LLC	113.0	41.878917	-87.636167
461	WNNR460	800/900	PDV Spectrum Holding Company, LLC	113.0	41.878917	-87.636167
462	WNNY752	800/900	PDV Spectrum Holding Company, LLC	113.0	41.878917	-87.636167
463	WNSK691	800/900	PDV Spectrum Holding Company, LLC	113.0	41.885583	-87.620889
464	WNVX274	800/900	PDV Spectrum Holding Company, LLC	113.0	41.878917	-87.636167



ID	Call Sign	Frequency Band (MHz)	Licensee	Mobile Area Radius (km)	Latitude (NAD83)	Longitude (NAD83)
465	WNXG468	800/900	PDV Spectrum Holding Company, LLC	113.0	41.870583	-88.295917
466	WNYR576	800/900	PDV Spectrum Holding Company, LLC	113.0	41.878917	-87.636167
467	WPCB780	800/900	PDV Spectrum Holding Company, LLC	113.0	41.878917	-87.636167
468	WPCF913	800/900	PDV Spectrum Holding Company, LLC	113.0	42.001417	-87.924222
469	WPCG770	800/900	PDV Spectrum Holding Company, LLC	113.0	41.878917	-87.636167
470	WPEM264	800/900	PDV Spectrum Holding Company, LLC	113.0	41.878917	-87.636167
471	WPEX511	800/900	PDV Spectrum Holding Company, LLC	112.0	41.878917	-87.636167
472	WPFK412	800/900	PDV Spectrum Holding Company, LLC	113.0	41.878917	-87.636167
473	WPKX425	800/900	PDV Spectrum Holding Company, LLC	113.0	41.870000	-88.298333
474	WPKX425	800/900	PDV Spectrum Holding Company, LLC	113.0	41.301111	-87.826389
475	WPKX425	800/900	PDV Spectrum Holding Company, LLC	113.0	41.878917	-87.636167
476	WPLP777	800/900	PDV Spectrum Holding Company, LLC	112.0	41.878917	-87.636167
477	WPML271	800/900	PDV Spectrum Holding Company, LLC	113.0	42.105583	-88.379528
478	WPML271	800/900	PDV Spectrum Holding Company, LLC	113.0	41.769444	-88.245556
479	WPML271	800/900	PDV Spectrum Holding Company, LLC	113.0	41.301111	-87.826389
480	WPML271	800/900	PDV Spectrum Holding Company, LLC	113.0	41.878917	-87.636167
481	WPMU599	800/900	PDV Spectrum Holding Company, LLC	113.0	41.878917	-87.636167
482	WPPZ283	800/900	PDV Spectrum Holding Company, LLC	112.0	41.885583	-87.620889
483	WPRM224	800/900	PDV Spectrum Holding Company, LLC	113.0	42.105583	-88.379528
484	WPRM224	800/900	PDV Spectrum Holding Company, LLC	112.0	41.878917	-87.636167
485	WPRS297	800/900	PDV Spectrum Holding Company, LLC	56.0	41.301111	-87.826389
486	WPSM466	800/900	PDV Spectrum Holding Company, LLC	113.0	41.878917	-87.636167
487	WPTD567	800/900	PDV Spectrum Holding Company, LLC	113.0	41.878917	-87.636167
488	WPTG711	800/900	PDV Spectrum Holding Company, LLC	113.0	41.870000	-88.298333
489	WPTG711	800/900	PDV Spectrum Holding Company, LLC	113.0	41.301111	-87.826389



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490	WPTG711	800/900	PDV Spectrum Holding Company, LLC	113.0	41.878917	-87.636167
491	WPTT850	800/900	PDV Spectrum Holding Company, LLC	112.0	41.898889	-87.623056
492	WPTU725	800/900	PDV Spectrum Holding Company, LLC	112.0	41.496417	-88.298944
493	WPUD749	800/900	PDV Spectrum Holding Company, LLC	113.0	41.878917	-87.636167
494	WPUV824	800/900	PDV Spectrum Holding Company, LLC	113.0	41.878917	-87.636167
495	WQBG748	800/900	PDV Spectrum Holding Company, LLC	113.0	41.524444	-87.018889
496	WQGN683	800/900	PDV Spectrum Holding Company, LLC	112.0	41.878917	-87.636167
497	WQGN888	800/900	PDV Spectrum Holding Company, LLC	113.0	41.878917	-87.636167
498	WQGN889	800/900	PDV Spectrum Holding Company, LLC	113.0	41.878917	-87.636167
499	WQGN891	800/900	PDV Spectrum Holding Company, LLC	113.0	41.870000	-88.298333
500	WQGS774	800/900	PDV Spectrum Holding Company, LLC	113.0	41.878917	-87.636167
501	WQHK844	800/900	PDV Spectrum Holding Company, LLC	56.0	41.301111	-87.826389
502	WQIF432	800/900	PDV Spectrum Holding Company, LLC	113.0	41.878917	-87.636167
503	WQII739	800/900	PDV Spectrum Holding Company, LLC	113.0	41.878917	-87.636167
504	WQSU784	800/900	PDV Spectrum Holding Company, LLC	113.0	42.058944	-88.020694
505	WQSU784	800/900	PDV Spectrum Holding Company, LLC	113.0	41.977222	-87.959722
506	KNIK497	150-174	PERKINS, JAMES	80.0	40.835722	-88.335833
507	WQCS655	150-174, 450-470	PETERSON RADIO INC	482.8	38.754806	-83.536111
508	WQDJ528	150-174	PHI AIR MEDICAL, LLC	120.0	40.749750	-86.871972
509	WQNT646	450-470	PILOT TOWNSHIP ROAD DISTRICT	24.0	41.049194	-88.097639
510	WNBM965	150-174	PIPER CITY FIRE PROTECTION DISTRICT	40.0	40.747250	-88.190333
511	WPXE238	450-470	POLYNT COMPOSITES USA, INC.	32.0	41.388361	-88.299778
512	WREM969	450-470	Pontiac Community Consolidated School Dist #429	32.0	40.882750	-88.616806
513	WQCJ535	450-470	PONTIAC SCHOOL DISTRICT 90	32.0	40.992500	-88.598056
514	WNWA393	150-174	PONTIAC, CITY OF	40.0	40.908917	-88.630333



ID	Call Sign	Frequency Band (MHz)	Licensee	Mobile Area Radius (km)	Latitude (NAD83)	Longitude (NAD83)
515	WSAG307	150-174	PONTIAC, CITY OF	40.0	40.881722	-88.630111
516	WNCY806	450-470	POPEJOY PLUMBING & HEATING	64.0	40.735583	-88.515333
517	WQEV221	450-470	PORTILLO'S HOT DOGS LLC	80.0	40.513556	-88.954056
518	WQEV221	450-470	PORTILLO'S HOT DOGS LLC	80.0	41.548694	-88.125111
519	WQEV221	450-470	PORTILLO'S HOT DOGS LLC	80.0	41.496167	-87.470250
520	WQLF337	150-174	PRAIRIE CENTRAL SCHOOL DISTRICT 8	40.0	40.745028	-88.507833
521	WRWK381	150-174	PRAIRIE CENTRAL SCHOOL DISTRICT 8	40.0	40.755028	-88.409222
522	WQPS937	450-470	Prairie State Tractor LLC	32.0	40.917222	-88.593056
523	WRPT775	450-470	Prairie State Tractor LLC	32.0	40.878667	-88.269028
524	WNRD584	450-470	Presence Care Transformation Corporation	40.0	41.106972	-87.865333
525	WQNF752	450-470	PROTECTION ASSOCIATES, INC	80.0	41.116944	-87.865972
526	WQVW909	450-470	PROTECTION ASSOCIATES, INC.	80.0	41.116944	-87.865972
527	WQIB772	450-470	PROTECTION PLUS SECURITY SYSTEMS, INC.	80.0	41.669222	-87.723333
528	WRNS833	450-470	Quality Alarm Systems Inc.	80.0	41.662778	-87.755556
529	WNUH257	450-470	R R DONNELLEY & SONS	32.0	41.105028	-88.419222
530	WNUH257	450-470	R R DONNELLEY & SONS	32.0	41.105000	-88.419167
531	WNZX556	450-470	RA COMM INC	120.0	41.008639	-86.883083
532	WPEW337	150-174	RABIDEAU GRAIN & LUMBER	56.0	40.935306	-87.937250
533	WNHD772	800/900	RAGAN COMMUNICATIONS INC	113.0	40.653056	-89.587333
534	WNHD772	800/900	RAGAN COMMUNICATIONS INC	113.0	40.697806	-89.471750
535	WNIC994	800/900	RAGAN COMMUNICATIONS INC	113.0	40.834306	-89.616667
536	WRBW200	450-470	RAINBOW COUNCIL BOY SCOUTS OF AMERICA	32.0	41.325083	-88.342417
537	WNNL226	450-470	RANSOM FERTILIZER SALES INC	56.0	41.157528	-88.655333
538	WQLD611	800/900	RCP Enterprises, Inc	113.0	41.937222	-88.124722
539	WQLD611	800/900	RCP Enterprises, Inc	113.0	41.540556	-88.035556



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540	WQLD611	800/900	RCP Enterprises, Inc	113.0	41.966139	-87.943889
541	WRYV825	450-470	READ, SUSAN L	32.0	40.758389	-88.188806
542	WRYV825	450-470	READ, SUSAN L	32.0	40.918833	-88.149583
543	KRV214	150-174	READING TOWNSHIP VOLUNTEER FIRE DEPT	48.0	41.105583	-88.832861
544	WRAK491	150-174	REDDICK, TOWN OF (IL)	40.0	41.096111	-88.246694
545	WPOX272	450-470	REED CUSTER SCHOOL DISTRICT 255U	32.0	41.286417	-88.239778
546	WPOX272	450-470	REED CUSTER SCHOOL DISTRICT 255U	32.0	41.258306	-88.205972
547	WPBK617	450-470	Reichhold LLC 2	32.0	41.388361	-88.299778
548	WRTP782	150-174	REMPREX, LLC	40.0	41.399833	-88.147250
549	KBL646	150-174	RIBER CONSTRUCTION INC	40.0	41.105028	-88.417278
550	WNSZ338	150-174	RIENTS, JEFF	64.0	40.924750	-88.866750
551	KIS343	150-174	RIVERSIDE MEDICAL CENTER	48.0	41.123917	-87.882556
552	WPDZ270	450-470	RIVERSIDE MEDICAL CENTER	48.0	41.123917	-87.882556
553	WRQV523	150-174	Roberts, Adam	48.0	40.799167	-88.775833
554	KNJE387	150-174	ROBISKY, JOHN	64.0	40.892250	-88.268111
555	WRVW213	150-174	ROGERS FARMS, LLC	40.0	41.303056	-88.419167
556	WNDZ341	150-174	ROLUDINA FARMS INC	40.0	41.084750	-88.247278
557	WQCR252	25-50	RUFF, JERRY	40.0	40.991694	-88.825639
558	WSAF636	150-174	Ryan Honegger Farms	40.0	40.792778	-88.431667
559	WQTD937	450-470	RYDER/TLC	32.0	41.407000	-88.426028
560	WQGS649	450-470	S & K SECURITY CORP.	80.0	41.339861	-87.526694
561	WRJI718	150-174	Sancken, Brandon E	40.0	40.871389	-88.489167
562	WQHL595	150-174	SANCKEN, WALTER	32.0	40.877222	-88.415278
563	WPFC911	450-470	SANDWICH COMMUNITY UNIT SCHOOL DIST 430	64.0	41.665278	-88.576111
564	WRFF657	150-174	SAUNEMIN FIRE PROTECTION DISTRICT	14.5	40.892222	-88.404722



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565	WQWJ613	150-174	SCHAFFER, KEVIN W	40.0	40.790583	-88.587556
566	WRNQ843	150-174	Schaffer, Matthew	40.0	40.831389	-88.603056
567	WNDF633	450-470	SCHAUMBURG, BRIAN	72.0	40.755583	-88.607000
568	KNIE705	150-174	SCHERR, ROGER	48.0	40.661139	-88.512556
569	WQTF818	450-470	SCHOTT FARMS	30.0	41.100833	-88.145000
570	WQNS358	150-174	SEVERSON ENTERPRISES	40.0	41.113917	-88.307556
571	WQML239	150-174	SLAGEL, DONALD	40.0	40.715278	-88.451389
572	WRCV421	150-174	SMALL, MARK	40.0	41.187000	-88.342194
573	WPWB726	450-470	Solid Platforms Inc	121.0	41.596972	-87.344194
574	WQLD344	450-470	SOUND INCORPORATED	80.0	41.794139	-88.225056
575	WNAJ770	800/900	SSS Inc,	112.0	41.878917	-87.636167
576	KNIK458	150-174	ST. JAMES HOSPITAL	56.0	40.872778	-88.671944
577	KSJ862	150-174	STARADIO CORP.	40.0	41.122806	-87.893111
578	WRPV690	450-470	STATE LINE FARMS	121.0	40.193889	-87.522583
579	WQWM975	150-174	STEPHENS, DOUG	40.0	40.817639	-88.439750
580	WNIR674	450-470	Sterrenberg, Casey	56.0	40.834472	-88.314778
581	WNQT203	450-470	STEVES TOWING AND ASSOC	121.0	41.563917	-87.334472
582	WRKC238	150-174	Streator Woodland Community Unit District 5	32.0	41.296528	-88.730750
583	WQKT892	450-470	Streator-Cayuga Ridge Wind Power, LLC	32.0	40.980722	-88.441139
584	WQSU415	450-470	Streator-Cayuga Ridge Wind Power, LLC	32.0	40.961111	-88.445444
585	WRXD629	450-470	SUN AG, INC.	32.0	40.877028	-88.262278
586	KSX271	450-470	Superior Air Ground Ambulance Inc.	56.0	41.407528	-88.805639
587	WNGS881	800/900	SUPREME RADIO COMMUNICATIONS, INC	113.0	40.619472	-89.572333
588	WNGS881	800/900	SUPREME RADIO COMMUNICATIONS, INC	113.0	40.483056	-88.995278
589	WNXX459	450-470	Supreme Radio Communications, Inc.	80.0	40.483056	-88.995278



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590	WQCH508	150-174	SWARTZ, GARY	80.0	40.920278	-88.388056
591	WRKX712	800/900	TCJ ENTERPRISES, INC	88.0	41.496417	-88.298944
592	WRKX712	800/900	TCJ ENTERPRISES, INC	88.0	41.565833	-88.062222
593	WQMI805	150-174	Texas Eastern Communications, LLC	80.0	40.720194	-89.088889
594	WQMI805	150-174	Texas Eastern Communications, LLC	80.0	40.828806	-88.861111
595	WQMI805	150-174	Texas Eastern Communications, LLC	80.0	41.099694	-88.277306
596	KNIY658	450-470	THIESEN, GERALD	24.0	41.273361	-88.273667
597	WRJC321	150-174	THORSON, RYAN W	40.0	40.993333	-88.643889
598	WQUC790	150-174	Toledo Peoria & Western Railway Inc	40.0	40.751111	-88.335556
599	WRMD382	450-470	TOTAL AUTOMATION CONCEPTS, INC	80.0	41.674167	-87.763611
600	WPSY974	450-470	Trainor Grain & Supply Company	32.0	40.806667	-88.217778
601	WRJI305	150-174	TRAUB, JOHN C	64.0	40.736111	-88.516389
602	WNGN554	450-470	TRI CENTRAL COOP	56.0	40.880583	-87.956139
603	KD53949	450-470	TRI ELECTRONICS INC	121.0	41.667250	-87.506167
604	WQWF717	450-470	TRI-POINT CUSD 6J	32.0	40.866694	-88.266722
605	WPFS815	150-174	TROY FIRE PROTECTION DISTRICT	48.0	41.545028	-88.199778
606	WPEV259	450-470	Tyco Integrated Security, LLC	121.0	41.919472	-87.836167
607	WROQ724	450-470	UCP - UTILITY CONCRETE	32.0	41.388056	-88.373611
608	WQWJ306	450-470	UNICOMM ELECTRONICS	121.0	41.638083	-88.080056
609	KFX965	150-174	UNION PACIFIC RAILROAD COMPANY	40.0	40.818917	-88.675056
610	KFX965	150-174	UNION PACIFIC RAILROAD COMPANY	40.0	41.206417	-88.285389
611	WQER916	150-174	Union Pacific Railroad Company	40.0	41.064778	-88.463111
612	WQKU939	150-174	Union Pacific Railroad Company	40.0	40.873667	-88.640556
613	WQKU939	150-174	Union Pacific Railroad Company	40.0	41.111111	-88.405278
614	WQNT920	450-470	UNIS, LLC	32.0	41.398639	-88.126083



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615	WRAG716	450-470	UNITED FACILITIES, INC.	32.0	41.296917	-88.130806
616	WQXP651	450-470	United Parcel Service	32.0	41.081111	-87.875778
617	KB82881	216-220	UNIVERSITY OF MEMPHIS	640.0	36.000056	-86.000000
618	KNIT480	150-174	UNZ, CHARLES	24.0	41.124750	-88.180611
619	WQYI618	450-470	USA HOIST	80.0	41.562917	-88.110278
620	WQBA572	25-50	VCNA PRAIRIE ILLINOIS INC.	40.0	41.122222	-87.864528
621	KRJ514	150-174	VEATCH AND SONS	121.0	40.585861	-88.143111
622	WPGW541	450-470	Vermilion Valley Regional ETSB	40.0	40.992500	-88.598056
623	WPHP729	450-470	Vermilion Valley Regional ETSB	40.0	40.880861	-88.629778
624	WPHX984	450-470	Vermilion Valley Regional ETSB	40.0	40.880861	-88.629778
625	WPTQ622	450-470	Vermilion Valley Regional ETSB	32.0	40.870861	-88.639611
626	WPZS315	150-174	Vermilion Valley Regional ETSB	40.0	40.992500	-88.598056
627	WQZS385	450-470	VESTAS	24.0	41.121917	-88.642694
628	WQPT498	450-470	Vestas American Wind Technology Inc	16.0	40.966750	-88.197083
629	WREK925	150-174	Vital Ambulance Services, LLC	80.0	41.549167	-87.838611
630	WRCS783	150-174	VITKO, ED	35.0	41.229417	-88.303889
631	WPXA381	150-174	Vollmer, Francis G	40.0	40.967250	-88.728111
632	WQFH265	450-470	VON MAUR	79.0	40.515278	-88.951111
633	WNSF383	450-470	WALLRICH, GENE	64.0	40.833361	-88.300611
634	KTR830	150-174	WALTER, PETER D	48.0	40.706972	-88.411167
635	WRAI757	450-470	Warehouse Services No. 4 LLC	24.0	41.341056	-88.203167
636	WPSS738	150-174	Waste Management Holdings, Inc	40.0	41.025000	-87.872222
637	WQOT887	150-174	WATTERS, ROBERT K	48.0	41.055583	-88.470889
638	WQQT873	72-76, 150- 174, 450- 470, 470- 512	WCIU-TV LIMITED PARTNERSHIP	120.0	41.881972	-87.647806



Illinois Generation LLC Wind Power GeoPlanner™ Land Mobile & Emergency Services Report Heritage Prairie Wind

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639	WRZI370	150-174	Wenger, Nathan D	40.0	40.741389	-88.523611
640	WQPK263	150-174	Western Will County Communication Center	24.0	41.308722	-88.146083
641	WQZT877	800/900	Western Will County Communication Center	113.0	41.308722	-88.146083
642	WQZT878	800/900	Western Will County Communication Center	113.0	41.435389	-88.183333
643	WRAQ940	769- 775/799-805	WESTERN WILL COUNTY COMMUNICATION CENTER	40.0	41.435389	-88.183333
644	WQOD299	150-174, 450-470, 470-512	WGBO LICENSE PARTNERSHIP, G.P.	120.0	41.892250	-87.619833
645	WZH965	800/900	WILLE BROTHERS COMPANY	64.0	41.536389	-87.854722
646	WPSH670	450-470	Willet Hofmann & Assoc Inc	161.0	41.850000	-89.475000
647	KDV822	150-174	WILMINGTON FIRE PROTECTION DISTRICT	24.0	41.312250	-88.144500
648	KNID218	150-174	WILMINGTON, CITY OF	40.0	41.304194	-88.118944
649	WSAU882	150-174	WILMINGTON, CITY OF	32.0	41.308833	-88.146278
650	WSAU882	150-174	WILMINGTON, CITY OF	40.0	41.308833	-88.146278
651	WPEH585	800/900	Wireless US LC	113.0	40.180861	-88.317833
652	KD50657	150-174	WISCONSIN POWER AND LIGHT COMPANY	241.0	43.005000	-89.196222
653	KJM544	450-470	WLS TELEVISION, INC.	160.0	41.878917	-87.636167
654	WRDF445	800/900	WOODFORD, COUNTY OF	64.0	40.900944	-89.039444
655	WQUM697	800/900	Wyndham Express, LLC	113.0	41.983028	-87.844250
656	WQRZ454	800/900	Wyndham Garden LLC	113.0	41.935306	-87.636722
657	WQRZ454	800/900	Wyndham Garden LLC	113.0	41.878917	-87.636167
658	WQMF261	800/900	WYNDHAM GARDEN, LLC.	113.0	41.878917	-87.636167
659	WQMF261	800/900	WYNDHAM GARDEN, LLC.	113.0	41.891694	-87.612306
660	WSAL530	150-174	Yoder, Thomas D	40.0	40.820000	-88.401389
661	WNGC296	800/900	Young, Joseph	113.0	40.716667	-88.001111
662	WNGC296	800/900	Young, Joseph	113.0	40.923250	-87.825889



ID	Call Sign	Frequency Band (MHz)	Licensee	Mobile Area Radius (km)	Latitude (NAD83)	Longitude (NAD83)
663	WNGC296	800/900	Young, Joseph	113.0	40.753333	-87.747778
664	WPEY408	800/900	Young, Joseph	113.0	40.181111	-88.317500

SHADOW FLICKER ANALYSIS



ILLINOIS GENERATION LLC

SHADOW FLICKER ANALYSIS

HERITAGE PRAIRIE WIND PROJECT PROJECT NO. 132138

REVISION 7 MARCH 26, 2024

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List of Abbreviations

Abbreviation	Term/Phrase/Name
Burns & McDonnell	Burns & McDonnell Engineering Company, Inc.
Client	Illinois Generation LLC
hr	Hour
kg/m3	Kilograms per cubic meter
m	Meter
m/s	Meters per second
MW	Megawatt
Project	Heritage Prairie Wind Project
Project Site	Location of Project in Livingston and Kankakee County, Illinois
Study	Shadow Flicker Analysis
yr	Year
V	Vestas



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1.0 Introduction

1.1 Study Overview

Burns & McDonnell Engineering Company, Inc. ("Burns & McDonnell") was retained by Illinois Generation LLC ("Client") to conduct a shadow flicker analysis (the "Study") for the proposed Heritage Prairie Wind Project (the "Project"). The objective of the Study was to estimate the annual frequency of shadow flicker on occupied residences caused by Project wind turbines.

1.2 Project Overview

The proposed Heritage Prairie Wind will be located in Livingston and Kankakee County, Illinois, approximately 15 miles west of the city of Kankakee. As of the date of this report, two layouts are in consideration for the Project Site: the GE layout and the Vestas layout. The **proposed GE layout includes 145 General Electric ("GE") 3.8**-154 wind turbine generators with a nameplate capacity of approximately 3.8 megawatts per turbine, and the proposed Vestas layout includes 137 Vestas 4.5-163 wind turbine generators with a nameplate capacity of approximately 4.5 megawatts per turbine, as summarized in Section 2.2 below. It is noted that only 71 of the proposed wind turbine generators are proposed to be installed within Livingston County, for either turbine scenario.

1.3 Shadow Flicker Overview

Shadow flicker occurs when wind turbine blades pass in front of the sun to create recurring shadows on an object. Such shadows occur only under very specific conditions, including sun position, wind direction, time of day, and other similar factors.

The intensity of shadow flicker varies significantly with distance, and as separation between a turbine and receptor increases, shadow flicker intensity correspondingly diminishes. Shadow flicker intensity for distances greater than 10 rotor diameters is generally considered imperceptible. At such distances, shadow flicker most commonly occurs at sunrise or sunset, when cast shadows are sufficiently long.

1.4 Applicable Regulations

Shadow flicker impacts are not currently regulated in applicable federal or state law. However, Section 56.619.E of the Livingston County Ordinance states the following:

Section 56.619.E: Shadow flicker shall not affect an occupied building or nonparticipating residence in excess of 30 hours per year under planned operating conditions. Planned operating conditions is defined as those conditions that would exist if the sun were to shine every day of the year with no cloud cover.

The Project is seeking a variance to model the shadow flicker impacts from estimated sunshine probability instead of planned operating conditions. As such, this report identifies shadow flicker durations for receptors that may experience flicker in excess of 30 hours per year under estimated sunshine conditions.



1.5 Site Visit

Burns & McDonnell did not visit the Project Site as part of this Study. The contents of this evaluation are based exclusively upon desktop analysis by Burns & McDonnell.



2.0 Modeling Parameters and Inputs

2.1 Modeling Overview

Shadow flicker was modeled for the Project Site using WindPRO, an industry-leading software package for the design and planning of wind energy projects. This package models **the sun's path with respect to every turbine location during every minute over a complete** year. Any shadow flicker caused by each turbine is then aggregated for each receptor for the entire year.

The following sections are summaries of the inputs utilized in the WindPRO model for this Study.

2.2 Wind Turbines

The Project will include up to 145 wind turbines when constructed. A summary of the turbine models and their respective dimensions that was modeled as part of this Study is included in Table 2-1.

Layout	Turbine Model	Hub Height [m]	Rotor Diameter [m]	County	Quantity
GE Layout	GE 3.8-154	98.0	154	Livingston Kankakee	71 74
Vestas Layout	V163-4.5	113.0	163	Livingston Kankakee	71 66

Table 2-1:Turbine Model Dimensions

Shadow flicker intensity is partially dependent upon the distance from a receptor to the turbine causing the shadow. The client-provided coordinates of each wind turbine are presented in Appendix A and the location of each wind turbine is presented graphically in Appendix D.

2.3 Receptors

A quantity of 1,177 receptors were modeled at the Project Site, although only the 287 receptors located in Livingston County are evaluated in this report. The client-provided coordinates of each receptor are presented in Appendix C and the location of each receptor is presented graphically in Appendix D. Burns & McDonnell did not provide an independent verification of the location or occupied status of these receptors.

Each receptor was modeled in "green house" mode within the WindPRO model. This approach provides a conservative estimate of the amount of time when shadow flicker could occur by modeling each receptor as having windows on all sides and effectively causing the home to be susceptible to flicker effects in all directions.



2.4 Terrain

The WindPRO model utilizes topography data to place turbines and receptors at the proper elevations. This information is also used by the model to consider any natural land features between a turbine and a receptor that may block shadows from being seen at a receptor.

Publicly-available terrain data was downloaded from the National Elevation Dataset, a product of the United States Geological Survey. The 10-meter resolution digital elevation model was exported at 10-foot intervals for use in the WindPRO model. Elevations were assigned by Burns & McDonnell to each turbine and each receptor using this data.

2.5 Obstacles

Obstacles located between a receptor and a turbine, such as trees or buildings, may significantly reduce or eliminate the duration and/or intensity of shadow flicker. However, to provide the most conservative estimate of the amount of time when shadow flicker could occur, no attempt was made to model the presence of potential obstacles.

2.6 Turbine Operation

Shadow flicker is contingent upon the movement of the turbine blades. Shadow flicker can only occur when the turbine is in operation (i.e., when the turbine blades are rotating). Moreover, shadow flicker is generally most notable when a turbine is facing a receptor, as this results in the widest-possible shadow being cast. To more accurately reflect the periods of operation of each Project wind turbine, on-site hub-height wind data was provided by Illinois Generation LLC and used to indicate the periods when the turbines are inactive due to wind speeds below the turbine cut-in speed or above the turbine cut-out speed, at which time the turbine rotor is not in motion and no shadow flicker will occur.

Project Site-specific wind data was also utilized to model the actual orientation of the turbines relative to each receptor. The client-provided wind data includes data collected by an on-site meteorological mast, as shown in Appendix B.

Power curves for the proposed turbines were provided by Illinois Generation LLC. These power curves were added to the WindPRO model to more accurately reflect the turbine's operational characteristics.

2.7 Flicker Relevance

At distances beyond 10 rotor diameters, shadow flicker effects are generally considered low, as shadows diffuse and become imperceptible. Thus, a distance equal to 10 times the rotor diameter of each turbine (i.e., 1,540 meters and 1,630 meters respectively) was modeled as the maximum distance at which shadow flicker was considered relevant; receptors greater than this distance from a given turbine were not evaluated. The proximity of this buffer relative to each receptor is presented graphically in Appendix D.

2.8 Sun Angle

The sun's path with respect to each turbine location is calculated by the WindPRO model to determine the cast shadow paths during every minute over a complete year. However, at very low sun angles, the light must pass through more atmosphere and becomes too diffused to



form a coherent shadow. Thus, a value of three (3) degrees was utilized for the height at which the sun would not cause noticeable flicker.

2.9 Environment

Shadow flicker is only caused when the sun is shining. Sunshine probability data was obtained by Burns & McDonnell, as shown in Appendix B. This data represents the percentage of hours each month that the sun is expected to be shining during daylight hours, with consideration given for cloud cover, rainy days, fog, or other similar occurrences that may diminish the potential occurrence or severity of shadow flicker.



3.0 Results

Using the inputs and parameters defined in Section 2.0, the WindPRO model was used to calculate shadow flicker for the identified receptors at the Project Site. Table 3-1 presents a summary of these results, while detailed tables are included within Appendix C. Additionally, maps are provided in Appendix D that illustrate the shadow flicker vectors (in hours per year) caused by each Project turbine.

Turbine Layout	No. of Turbines	No. of Receptors	No. of Participating Receptors, Flicker ≥ 30 hr/yr	No. of Non-Participating Receptors, Flicker \geq 30 hr/yr
145 x GE 3.8-154	71	289	3	14
137 x V163-4.5	71	289	5	19

The following is a set of key observations from the results of the Study:

- With the GE layout, 17 out of the 289 known receptors in Livingston County exceed 30 hours per year of shadow flicker. Three receptors are participating residences, and 19 of the receptors are non-participating residences. Refer to Appendix C for a complete listing of results.
- With the Vestas layout, 24 out of the 289 known receptors in Livingston County exceed 30 hours per year of shadow flicker. Five receptors are participating residences, and 19 of the receptors are non-participating residences. Refer to Appendix C for a complete listing of results.
- With the Vestas layout, one of the 31 known receptors in Grundy County exceeds 30 hours per year of shadow flicker. The receptor is non-participating. None of the Grundy receptors exceeds 30 hours per year of shadow flicker with the GE layout. Refer to Appendix C for a complete listing of results.
- For the layouts analyzed within this report, there are no Livingston County receptors modeled to have more than 30 hours per year of shadow flicker that are impacted by a wind turbine located in Kankakee County.
- For the layouts analyzed within this report, there are no Kankakee County receptors modeled to have more than 30 hours per year of shadow flicker that are impacted by a wind turbine located in Livingston County. A Shadow Flicker Analysis report for Kankakee residences will be issued to Kankakee County for their permit process.
- The majority of observed shadow flicker on each receptor occurs during early morning and/or late afternoon and evening hours, as shown in Appendix E.
- The Study was performed using a conservative modeling approach with Project Sitespecific conditions. For example, the Study modeled each receptor as a "green house", meaning each receptor was modeled as having windows on all sides and



effectively causing the home to be susceptible to flicker effects in all directions. Further, the Project Site was modeled as if no obstacles were present, including trees or buildings, which may significantly reduce or eliminate the duration and/or intensity of shadow flicker at a receptor. Due to the conservative approach of the Study, the actual duration and intensity of shadow flicker experienced at each receptor is expected to be less than those reported in the Study.

• Notwithstanding any shadow flicker which may occur at the Project Site, mitigation techniques will be utilized to reduce the shadow flicker on non-participating residences with more than 30 hours/year. Mitigation techniques will include operational curtailment of nearby wind turbine(s) to reduce the shadow flicker on non-participating residences to below 30 hours per year and offering Good Neighbor Agreements.



APPENDIX A - WIND TURBINE COORDINATES

Turbine Number	Eacting [m]	Northing [m]	County	Wind Tur	Wind Turbine Model		
	Easting [m]		County	GE Layout	Vestas Layout		
L2	381,361.00	4,544,257.00	Livingston	GE 3.8-154	V163-4.5		
L4	381,816.00	4,546,429.00	Livingston	GE 3.8-154	V163-4.5		
L5	382,070.00	4,544,279.00	Livingston	GE 3.8-154	V163-4.5		
L6	381,925.00	4,544,708.00	Livingston	GE 3.8-154	V163-4.5		
L9	382,125.04	4,547,319.23	Livingston	GE 3.8-154	V163-4.5		
L11	383,064.11	4,547,990.80	Livingston	GE 3.8-154	V163-4.5		
L13	383,451.89	4,548,337.22	Livingston	GE 3.8-154	V163-4.5		
L16	384,192.46	4,549,256.75	Livingston	GE 3.8-154	V163-4.5		
L17	384,386.92	4,547,995.63	Livingston	GE 3.8-154	V163-4.5		
L18	384,583.00	4,544,166.00	Livingston	GE 3.8-154	V163-4.5		
L20	385,102.17	4,550,784.87	Livingston	GE 3.8-154	V163-4.5		
L21	385,071.93	4,546,681.32	Livingston	GE 3.8-154	V163-4.5		
L24	385,327.49	4,551,792.47	Livingston	GE 3.8-154	V163-4.5		
L26	385,404.65	4,544,325.80	Livingston	GE 3.8-154	V163-4.5		
L27	385,810.09	4,550,621.79	Livingston	GE 3.8-154	V163-4.5		
L28	385,885.23	4,548,362.05	Livingston	GE 3.8-154	V163-4.5		
L29	385,853.98	4,545,095.91	Livingston	GE 3.8-154	V163-4.5		
L30	385,289.70	4,547,880.43	Livingston	GE 3.8-154	V163-4.5		
L31	386,221.46	4,551,805.79	Livingston	GE 3.8-154	V163-4.5		
L32	386,240.00	4,551,283.00	Livingston	GE 3.8-154	V163-4.5		
L33	386,290.00	4,549,180.00	Livingston	GE 3.8-154	V163-4.5		
L34	386,390.53	4,543,055.86	Livingston	GE 3.8-154	V163-4.5		
L35	386,549.82	4,548,830.46	Livingston	GE 3.8-154	V163-4.5		
L37	386,551.62	4,550,785.72	Livingston	GE 3.8-154	V163-4.5		
L38	386,431.80	4,545,114.01	Livingston	GE 3.8-154	V163-4.5		
L39	386,681.91	4,547,214.88	Livingston	GE 3.8-154	V163-4.5		
L40	386,667.22	4,547,668.61	Livingston	GE 3.8-154	V163-4.5		
L42	387,356.43	4,546,536.25	Livingston	GE 3.8-154	V163-4.5		
L43	387,102.25	4,549,887.51	Livingston	GE 3.8-154	V163-4.5		
L46	387,185.13	4,545,989.82	Livingston	GE 3.8-154	V163-4.5		
L47	387,424.00	4,551,680.00	Livingston	GE 3.8-154	V163-4.5		
L50	387,523.53	4,545,598.28	Livingston	GE 3.8-154	V163-4.5		
L56	387,898.68	4,549,880.06	Livingston	GE 3.8-154	V163-4.5		
L58	388,250.88	4,549,618.75	Livingston	GE 3.8-154	V163-4.5		
L60	388,312.34	4,546,468.55	Livingston	GE 3.8-154	V163-4.5		
L61	388,913.89	4,542,372.09	Livingston	GE 3.8-154	V163-4.5		
L62	389,166.24	4,544,737.58	Livingston	GE 3.8-154	V163-4.5		
L63	388,988.92	4,548,936.46	Livingston	GE 3.8-154	V163-4.5		

Table A-1:Wind Turbine Coordinates



Turbine Number	Easting [m]	Northing [m]	County	Wind Turbine Model		
		Northing [m]	County	GE Layout	Vestas Layout	
L64	389,090.61	4,542,919.34	Livingston	GE 3.8-154	V163-4.5	
L65	389,017.00	4,549,550.00	Livingston	GE 3.8-154	V163-4.5	
L66	389,550.78	4,543,506.68	Livingston	GE 3.8-154	V163-4.5	
L68	389,205.93	4,547,553.94	Livingston	GE 3.8-154	V163-4.5	
L69	389,368.99	4,544,245.76	Livingston	GE 3.8-154	V163-4.5	
L70	389,753.95	4,549,130.87	Livingston	GE 3.8-154	V163-4.5	
L71	389,688.00	4,544,833.00	Livingston	GE 3.8-154	V163-4.5	
L73	390,552.29	4,543,981.09	Livingston	GE 3.8-154	V163-4.5	
L74	389,914.84	4,547,267.68	Livingston	GE 3.8-154	V163-4.5	
L76	390,763.00	4,545,123.00	Livingston	GE 3.8-154	V163-4.5	
L77	390,635.41	4,546,473.05	Livingston	GE 3.8-154	V163-4.5	
L79	390,915.04	4,544,352.12	Livingston	GE 3.8-154	V163-4.5	
L80	391,121.53	4,543,520.11	Livingston	GE 3.8-154	V163-4.5	
L81	391,171.72	4,547,434.46	Livingston	GE 3.8-154	V163-4.5	
L82	391,519.99	4,548,102.40	Livingston	GE 3.8-154	V163-4.5	
L86	391,573.53	4,544,332.95	Livingston	GE 3.8-154	V163-4.5	
L87	391,593.26	4,543,154.59	Livingston	GE 3.8-154	V163-4.5	
L89	392,285.00	4,544,337.00	Livingston	GE 3.8-154	V163-4.5	
L91	392,388.00	4,543,159.00	Livingston	GE 3.8-154	V163-4.5	
L95	393,610.18	4,547,569.27	Livingston	GE 3.8-154	V163-4.5	
L97	394,019.45	4,547,239.51	Livingston	GE 3.8-154	V163-4.5	
L98	394,441.00	4,544,333.00	Livingston	GE 3.8-154	V163-4.5	
L99	385,356.22	4,548,965.31	Livingston	GE 3.8-154	V163-4.5	
L104	387,524.09	4,547,973.19	Livingston	GE 3.8-154	V163-4.5	
L105	387,748.00	4,547,426.00	Livingston	GE 3.8-154	V163-4.5	
L106	388,010.71	4,548,251.03	Livingston	GE 3.8-154	V163-4.5	
L107	386,769.02	4,541,528.83	Livingston	GE 3.8-154	V163-4.5	
L109	382,048.05	4,543,185.86	Livingston	GE 3.8-154	V163-4.5	
L110	384,699.11	4,547,194.88	Livingston	GE 3.8-154	V163-4.5	
L111	385,285.02	4,548,361.90	Livingston	GE 3.8-154	V163-4.5	
L113	389,699.81	4,549,713.65	Livingston	GE 3.8-154	V163-4.5	
L120	381,666.69	4,545,849.66	Livingston	GE 3.8-154	V163-4.5	
L121	381,200.04	4,545,028.89	Livingston	GE 3.8-154	V163-4.5	
K2	395238.526	4545133.814	Kankakee	GE 3.8-154	N/A	
K3	395281.074	4549007.691	Kankakee	GE 3.8-154	V-163-4.5	
K4	395356	4544696	Kankakee	GE 3.8-154	N/A	
K5	395483	4544248	Kankakee	GE 3.8-154	N/A	
K6	395620.044	4545704.363	Kankakee	GE 3.8-154	V-163-4.5	
K7	395997.566	4545125.507	Kankakee	GE 3.8-154	V-163-4.5	
K8	396005.758	4551883.647	Kankakee	GE 3.8-154	V-163-4.5	



Turbing Number	Fasting [m]	Northing [m]	Country	Wind Turb	ine Model
Turbine Number	Easting [m]	Northing [m]	County	GE Layout	GE Layout
К9	396128.115	4544672.746	Kankakee	GE 3.8-154	V-163-4.5
K11	396156.644	4551397.009	Kankakee	GE 3.8-154	V-163-4.5
K12	396327.427	4549165.186	Kankakee	GE 3.8-154	V-163-4.5
K13	396413.5193	4550737.04	Kankakee	GE 3.8-154	V-163-4.5
K14	396444.946	4543550.739	Kankakee	GE 3.8-154	N/A
K15	396452	4544014	Kankakee	GE 3.8-154	N/A
K16	396867.331	4544669.591	Kankakee	GE 3.8-154	N/A
K18	397718.909	4545992.763	Kankakee	GE 3.8-154	V-163-4.5
K89	397991.941	4553193.113	Kankakee	GE 3.8-154	N/A
K20	397945.873	4544468.977	Kankakee	GE 3.8-154	V-163-4.5
K23	398814.24	4552798.76	Kankakee	GE 3.8-154	V-163-4.5
K24	398818.416	4550874.894	Kankakee	GE 3.8-154	V-163-4.5
K25	398878	4549895	Kankakee	GE 3.8-154	N/A
K28	399561.998	4553258	Kankakee	GE 3.8-154	V-163-4.5
K29	399639.386	4554438.526	Kankakee	GE 3.8-154	V-163-4.5
K32	400936.047	4552859.426	Kankakee	GE 3.8-154	V-163-4.5
K33	401299.896	4546595.481	Kankakee	GE 3.8-154	N/A
K34	401674.671	4552829.576	Kankakee	GE 3.8-154	V-163-4.5
K35	401730	4548164	Kankakee	GE 3.8-154	N/A
K36	402061.209	4549323.189	Kankakee	GE 3.8-154	V-163-4.5
K37	402464	4552858	Kankakee	GE 3.8-154	N/A
K38	402423.723	4548540.559	Kankakee	GE 3.8-154	V-163-4.5
K39	402521.03	4545237.197	Kankakee	GE 3.8-154	N/A
K40	402546	4546182	Kankakee	GE 3.8-154	N/A
K42	403380.164	4552860.661	Kankakee	GE 3.8-154	V-163-4.5
K43	403383.797	4543147.203	Kankakee	GE 3.8-154	V-163-4.5
K45	403405	4547498	Kankakee	GE 3.8-154	N/A
K46	403800.152	4546966.736	Kankakee	GE 3.8-154	V-163-4.5
K47	404149.701	4546564.121	Kankakee	GE 3.8-154	V-163-4.5
K48	404153.869	4542966.741	Kankakee	GE 3.8-154	V-163-4.5
K49	404045.784	4544999.362	Kankakee	GE 3.8-154	N/A
K50	404204	4549386	Kankakee	GE 3.8-154	V-163-4.5
K51	404241	4543393	Kankakee	GE 3.8-154	V-163-4.5
K52	404257.295	4544176.363	Kankakee	GE 3.8-154	N/A
K54	405427.151	4542972.603	Kankakee	GE 3.8-154	V-163-4.5
K55	405923.071	4551027.689	Kankakee	GE 3.8-154	V-163-4.5
K56	406528.679	4549391.028	Kankakee	GE 3.8-154	V-163-4.5
K57	407020	4549985	Kankakee	GE 3.8-154	V-163-4.5
K59	407783.333	4554461.134	Kankakee	GE 3.8-154	N/A
K60	408245.014	4549173.289	Kankakee	GE 3.8-154	V-163-4.5



Turbine Number	Easting [m]	Northing [m]	County	Wind Turk	pine Model
	Easting [m]	Northing [m]	County	GE Layout	Vestas Layout
K61	408601.411	4551113.962	Kankakee	GE 3.8-154	V-163-4.5
K62	408948.895	4549180.655	Kankakee	GE 3.8-154	V-163-4.5
K63	409370.476	4550016.537	Kankakee	GE 3.8-154	N/A
K64	409901.023	4551113.189	Kankakee	GE 3.8-154	N/A
K66	410661.175	4551910.674	Kankakee	GE 3.8-154	V-163-4.5
K68	411428	4548354	Kankakee	GE 3.8-154	N/A
K99	412148.959	4551162.529	Kankakee	GE 3.8-154	N/A
K70	412242.942	4546288.678	Kankakee	GE 3.8-154	V-163-4.5
K71	412201.842	4548355.777	Kankakee	GE 3.8-154	N/A
K73	413430.324	4545438.159	Kankakee	GE 3.8-154	V-163-4.5
K74	413444.927	4546319.628	Kankakee	GE 3.8-154	V-163-4.5
K75	413382.354	4551674.006	Kankakee	GE 3.8-154	N/A
K77	413843.915	4548786.006	Kankakee	GE 3.8-154	V-163-4.5
K78	413852.775	4547006.046	Kankakee	GE 3.8-154	V-163-4.5
K79	413941.998	4548346	Kankakee	GE 3.8-154	V-163-4.5
K81	415037.105	4548122.645	Kankakee	GE 3.8-154	V-163-4.5
K82	395262.6349	4544802.185	Kankakee	N/A	V-163-4.5
K83	395306.8345	4544312.657	Kankakee	N/A	V-163-4.5
K84	396075.3508	4544051.372	Kankakee	N/A	V-163-4.5
K85	396078.0493	4543486.052	Kankakee	N/A	V-163-4.5
K86	396907.3069	4544421.172	Kankakee	N/A	V-163-4.5
K89	397991.9409	4553193.113	Kankakee	N/A	V-163-4.5
K90	399359.406	4547498.183	Kankakee	GE 3.8-154	V-163-4.5
K91	401746.1834	4548438.867	Kankakee	N/A	V-163-4.5
K92	402684.941	4544536.735	Kankakee	GE 3.8-154	V-163-4.5
K93	402801.0891	4552853.335	Kankakee	N/A	V-163-4.5
K94	405277.613	4549798.946	Kankakee	GE 3.8-154	V-163-4.5
K98	408943	4549625	Kankakee	N/A	V-163-4.5
K99	412148.9591	4551162.53	Kankakee	N/A	V-163-4.5
K101	413964.27	4547877.449	Kankakee	GE 3.8-154	V-163-4.5
K107	403449.3151	4547864.506	Kankakee	N/A	V-163-4.5
K109	402505.7544	4546522.211	Kankakee	N/A	V-163-4.5
K110	402566.6017	4545836.393	Kankakee	N/A	V-163-4.5
K200	413349.686	4548769.322	Kankakee	GE 3.8-154	V-163-4.5
K202	413355.363	4546847.651	Kankakee	GE 3.8-154	V-163-4.5
K2O4	403450.341	4546259.638	Kankakee	GE 3.8-154	V-163-4.5
K205	413273.159	4548044.53	Kankakee	GE 3.8-154	V-163-4.5
K206	395502.525	4546400.533	Kankakee	GE 3.8-154	V-163-4.5
K500	398791.958	4547751.65	Kankakee	GE 3.8-154	V-163-4.5
K501	404122.6871	4543732.634	Kankakee	N/A	V-163-4.5



Turbine Number	Easting [m]	Northing [m]	County Wind Tu		ine Model
	Easting [m]	Northing [m]	County	GE Layout	Vestas Layout
K502	395701.493	4551330.357	Kankakee	GE 3.8-154	V-163-4.5
K5O3	402613.3143	4548066.687	Kankakee	N/A	V-163-4.5

Notes:

[1] Coordinates presented in UTM NAD83 Zone 16N (meters) [2] Coordinates provided by Illinois Generation LLC via "*HP_K3_L06R00BA02_V163-*4.5_66WTG_with_PMETS_20240109.shp" and "*HP_Livingston_L12R00BA06_71WTG_with_PMTs.shp*" on January 11, 2024



APPENDIX B - MODELING INPUT

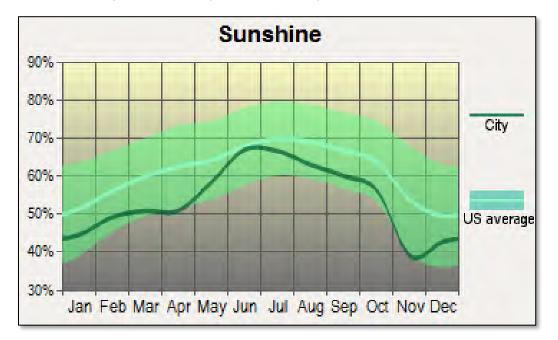


Figure B-1: Monthly Sunshine Probability Data for Herscher, Illinois

Table B-1: Sunshine Probability Data for Herscher, Illinois

Month	Estimated Sunshine Probability
January	45%
February	49%
March	51%
April	52%
Мау	59%
June	68%
July	66%
August	63%
September	60%
October	56%
November	40%
December	43%

Notes: [1] Data source: http://www.city-data.com/city/Herscher-Illinois.html [2] Data location: Herscher, Illinois [3] Data in Figure estimated by Burns & McDonnell from source data in Figure B-1



APPENDIX C - FLICKER RESULTS BY RECEPTOR

Receptor	Easting	Northing	Darticipating Status	County	Flicker Durat	ion [hours/year]
Name	[m]	[m]	Participating Status	County	GE Layout	Vestas Layout
REC-001	380,314	4,545,525	Non-Participating	Livingston	9.90	12.40
REC-002	380,545	4,544,359	Non-Participating	Livingston	13.18	16.25
REC-003	380,705	4,547,583	Non-Participating	Livingston	2.13	2.80
REC-004	380,705	4,546,736	Non-Participating	Livingston	8.83	13.52
REC-005	380,718	4,546,973	Non-Participating	Livingston	6.88	8.87
REC-006	380,721	4,545,199	Non-Participating	Livingston	26.18	30.05
REC-007	380,787	4,548,011	Non-Participating	Livingston	2.20	2.88
REC-008	380,738	4,544,529	Non-Participating	Livingston	21.87	26.20
REC-009	380,715	4,542,026	Non-Participating	Livingston	0.00	0.00
REC-010	380,808	4,544,757	Non-Participating	Livingston	21.67	26.65
REC-011	380,902	4,548,517	Non-Participating	Livingston	0.00	0.00
REC-012	380,830	4,543,259	Non-Participating	Livingston	3.62	4.53
REC-013	380,967	4,541,639	Non-Participating	Livingston	0.00	0.00
REC-014	381,011	4,542,841	Non-Participating	Livingston	9.45	12.43
REC-015	381,015	4,542,792	Non-Participating	Livingston	13.82	17.38
REC-016	381,105	4,547,011	Non-Participating	Livingston	20.05	24.83
REC-017	381,178	4,545,956	Participating	Livingston	26.00	29.50
REC-018	381,318	4,540,451	Non-Participating	Livingston	0.00	0.00
REC-019	381,625	4,546,986	Non-Participating	Livingston	0.00	0.00
REC-020	381,605	4,543,611	Non-Participating	Livingston	19.62	23.67
REC-021	381,719	4,548,523	Non-Participating	Livingston	2.42	3.13
REC-022	381,660	4,543,617	Non-Participating	Livingston	16.33	21.27
REC-023	381,752	4,543,606	Non-Participating	Livingston	11.77	18.23
REC-024	381,946	4,542,135	Non-Participating	Livingston	0.00	0.00
REC-025	381,998	4,545,282	Non-Participating	Livingston	9.35	11.10
REC-026	381,941	4,540,448	Non-Participating	Livingston	0.00	0.00
REC-027	382,078	4,543,763	No Residential Structure	Livingston	0.00	0.00
REC-028	382,184	4,546,036	Participating	Livingston	22.90	26.00
REC-029	382,348	4,551,947	Non-Participating	Livingston	0.00	0.00
REC-030	382,452	4,541,947	Non-Participating	Livingston	0.00	0.00
REC-031	382,665	4,548,537	Non-Participating	Livingston	9.32	15.03
REC-032	382,713	4,550,276	Non-Participating	Livingston	0.00	0.00
REC-033	382,890	4,550,140	Non-Participating	Livingston	0.00	4.57
REC-034	382,944	4,552,817	Non-Participating	Grundy	0.00	0.00

Table C-1:Flicker Results by Receptor



Receptor	Easting	Northing	Participating Status	County	Flicker Durat	ion [hours/year]
Name	[m]	[m]			GE Layout	Vestas Layout
REC-035	382,851	4,544,716	Non-Participating	Livingston	17.13	22.90
REC-036	383,013	4,551,947	Non-Participating	Livingston	0.00	0.00
REC-037	382,989	4,540,403	Non-Participating	Livingston	0.00	0.00
REC-038	383,209	4,552,030	Non-Participating	Grundy	0.00	0.00
REC-039	383,162	4,543,493	Non-Participating	Livingston	4.17	13.18
REC-040	383,187	4,542,160	Non-Participating	Livingston	0.00	0.00
REC-041	383,340	4,550,225	No Residential Structure	Livingston	0.00	0.00
REC-042	383,363	4,540,632	Non-Participating	Livingston	0.00	0.00
REC-043	383,498	4,545,392	Non-Participating	Livingston	0.00	0.00
REC-044	383,707	4,551,972	Non-Participating	Livingston	0.00	0.00
REC-045	383,808	4,552,042	Non-Participating	Grundy	0.00	2.33
REC-046	383,747	4,542,524	Non-Participating	Livingston	0.00	0.00
REC-047	383,787	4,541,660	Non-Participating	Livingston	0.00	0.00
REC-048	383,903	4,548,606	Participating	Livingston	38.40	48.35
REC-049	383,927	4,547,436	Non-Participating	Livingston	18.88	22.78
REC-050	383,985	4,550,756	Non-Participating	Livingston	4.72	5.87
REC-051	383,959	4,546,943	Non-Participating	Livingston	31.08	35.80
REC-052	384,023	4,550,261	Non-Participating	Livingston	9.52	10.68
REC-053	384,080	4,548,493	Non-Participating	Livingston	33.00	44.55
REC-054	383,954	4,540,309	Non-Participating	Livingston	0.00	0.00
REC-055	384,054	4,544,572	Non-Participating	Livingston	24.38	28.37
REC-056	384,069	4,543,690	Non-Participating	Livingston	7.42	8.63
REC-057	384,071	4,541,725	Non-Participating	Livingston	0.00	0.00
REC-058	384,150	4,540,797	Non-Participating	Livingston	0.00	0.00
REC-059	384,369	4,552,050	Non-Participating	Grundy	5.85	7.20
REC-060	384,490	4,552,075	Non-Participating	Grundy	7.98	9.60
REC-061	384,568	4,552,521	Non-Participating	Grundy	2.23	4.58
REC-062	384,574	4,550,144	Non-Participating	Livingston	6.97	9.85
REC-063	384,598	4,548,702	Non-Participating	Livingston	44.67	51.82
REC-064	384,535	4,542,155	Non-Participating	Livingston	0.00	0.00
REC-065	384,615	4,545,527	Non-Participating	Livingston	3.10	3.95
REC-066	384,737	4,550,136	Non-Participating	Livingston	12.55	14.08
REC-067	384,802	4,550,139	Non-Participating	Livingston	11.05	12.38
REC-068	385,005	4,543,637	Non-Participating	Livingston	2.22	2.87
REC-069	385,342	4,543,785	Participating	Livingston	23.22	26.18
REC-070	385,514	4,551,256	Non-Participating	Livingston	26.80	35.47



Receptor	Easting	Northing	Participating Status	County	Flicker Durat	ion [hours/year]
Name	[m]	[m]			GE Layout	Vestas Layout
REC-071	385,532	4,549,542	Non-Participating	Livingston	18.80	25.50
REC-072	385,550	4,549,430	Participating	Livingston	18.27	25.37
REC-073	385,534	4,547,008	Non-Participating	Livingston	46.75	54.97
REC-074	385,567	4,545,682	Non-Participating	Livingston	8.83	10.35
REC-075	385,551	4,542,065	Non-Participating	Livingston	3.12	3.97
REC-076	385,658	4,547,470	Non-Participating	Livingston	23.95	30.35
REC-077	385,754	4,553,592	No Residential Structure	Grundy	0.00	0.00
REC-078	385,771	4,552,272	Non-Participating	Grundy	23.98	32.57
REC-079	385,705	4,542,027	Non-Participating	Livingston	4.35	5.38
REC-080	386,052	4,553,101	Non-Participating	Grundy	0.00	0.00
REC-081	385,872	4,540,467	Non-Participating	Livingston	0.00	0.00
REC-082	385,982	4,543,639	Non-Participating	Livingston	3.55	4.82
REC-083	386,116	4,550,283	Non-Participating	Livingston	17.80	20.53
REC-084	386,096	4,543,783	Non-Participating	Livingston	0.00	2.95
REC-085	386,629	4,551,956	Participating	Livingston	48.25	54.45
REC-086	386,547	4,542,052	Non-Participating	Livingston	0.00	0.00
REC-087	386,731	4,550,247	Participating	Livingston	49.03	58.27
REC-088	386,877	4,551,473	Non-Participating	Livingston	75.18	85.42
REC-089	386,893	4,551,398	Non-Participating	Livingston	41.98	48.95
REC-090	386,863	4,548,278	Participating	Livingston	23.92	31.72
REC-091	386,929	4,548,326	Non-Participating	Livingston	26.70	31.33
REC-092	386,909	4,544,222	Non-Participating	Livingston	2.02	2.65
REC-093	386,932	4,544,178	Participating	Livingston	1.97	2.58
REC-094	386,929	4,542,224	Non-Participating	Livingston	0.00	0.00
REC-095	387,116	4,552,284	Non-Participating	Grundy	6.90	8.33
REC-096	386,972	4,540,848	Non-Participating	Livingston	0.00	0.00
REC-097	387,268	4,553,649	Non-Participating	Grundy	0.00	0.00
REC-098	387,166	4,546,937	Non-Participating	Livingston	25.93	35.82
REC-099	387,143	4,540,688	Non-Participating	Livingston	0.00	0.00
REC-100	387,478	4,548,542	Non-Participating	Livingston	36.90	48.80
REC-101	387,708	4,553,672	Non-Participating	Grundy	0.00	0.00
REC-102	387,697	4,548,731	Non-Participating	Livingston	12.65	21.98
REC-103	387,779	4,553,311	Non-Participating	Grundy	0.00	0.00
REC-104	387,672	4,543,815	Non-Participating	Livingston	3.23	4.07
REC-105	387,811	4,543,802	Non-Participating	Livingston	0.00	10.80
REC-106	387,982	4,541,563	Non-Participating	Livingston	3.62	4.57



Receptor	Easting	Northing	Doctionating Status	Country	Flicker Durat	ion [hours/year]
Name	[m]	[m]	Participating Status	County	GE Layout	Vestas Layout
REC-107	388,025	4,543,787	Non-Participating	Livingston	8.33	13.43
REC-108	388,068	4,540,421	Non-Participating	Livingston	0.00	0.00
REC-109	388,392	4,550,971	Non-Participating	Livingston	0.00	0.00
REC-110	388,491	4,551,296	Non-Participating	Livingston	8.05	10.45
REC-111	388,496	4,551,128	Non-Participating	Livingston	9.78	11.08
REC-112	388,501	4,551,216	Non-Participating	Livingston	12.35	15.50
REC-113	388,511	4,550,982	Non-Participating	Livingston	0.07	0.03
REC-114	388,478	4,547,761	Non-Participating	Livingston	30.18	36.35
REC-115	388,517	4,543,707	Participating	Livingston	5.03	6.20
REC-116	388,643	4,550,154	Non-Participating	Livingston	15.30	22.52
REC-117	388,629	4,547,270	Non-Participating	Livingston	35.42	40.37
REC-118	388,627	4,544,239	Non-Participating	Livingston	22.50	27.02
REC-119	388,669	4,540,179	Non-Participating	Livingston	0.00	0.00
REC-120	388,858	4,548,562	Participating	Livingston	8.73	10.57
REC-121	389,299	4,553,283	Non-Participating	Grundy	0.00	0.00
REC-122	389,384	4,548,701	Non-Participating	Livingston	19.50	17.63
REC-123	389,322	4,540,309	Non-Participating	Livingston	0.00	0.00
REC-124	389,531	4,546,942	Non-Participating	Livingston	7.30	9.17
REC-125	389,701	4,542,165	Non-Participating	Livingston	14.02	17.60
REC-126	389,853	4,545,411	Participating	Livingston	7.40	11.62
REC-127	390,040	4,551,782	Non-Participating	Livingston	0.00	0.00
REC-128	390,028	4,550,799	Non-Participating	Livingston	0.00	0.00
REC-129	390,123	4,551,460	Non-Participating	Livingston	0.00	0.00
REC-130	390,120	4,551,180	Non-Participating	Livingston	0.00	0.00
REC-131	390,140	4,549,605	Non-Participating	Livingston	75.50	87.30
REC-132	390,202	4,553,054	Non-Participating	Grundy	0.00	0.00
REC-133	390,072	4,544,182	Non-Participating	Livingston	60.22	70.75
REC-134	390,132	4,545,949	Non-Participating	Livingston	0.00	0.00
REC-135	390,187	4,546,537	Non-Participating	Livingston	32.82	37.13
REC-136	390,299	4,544,451	Non-Participating	Livingston	34.15	44.40
REC-137	390,460	4,550,162	Non-Participating	Livingston	11.27	15.38
REC-138	390,491	4,550,248	Non-Participating	Livingston	11.58	13.58
REC-139	390,538	4,548,633	Non-Participating	Livingston	7.05	10.68
REC-140	390,427	4,540,461	Non-Participating	Livingston	0.00	0.00
REC-141	390,567	4,542,089	Non-Participating	Livingston	0.00	0.00
REC-142	390,807	4,550,269	Non-Participating	Livingston	3.98	4.95



Receptor	Easting	Northing	Darticipating Status	County	Flicker Durat	ion [hours/year]
Name	[m]	[m]	Participating Status	County	GE Layout	Vestas Layout
REC-143	390,814	4,550,185	Non-Participating	Livingston	4.08	5.08
REC-144	390,880	4,550,267	Non-Participating	Livingston	3.37	4.28
REC-145	390,928	4,551,251	Non-Participating	Livingston	0.00	0.00
REC-146	390,932	4,550,601	Non-Participating	Livingston	4.15	5.32
REC-147	391,001	4,553,640	Non-Participating	Grundy	0.00	0.00
REC-148	391,042	4,552,185	Non-Participating	Grundy	0.00	0.00
REC-149	391,022	4,548,644	Non-Participating	Livingston	12.05	17.55
REC-150	391,363	4,545,385	Non-Participating	Livingston	16.58	19.10
REC-151	391,391	4,546,901	Non-Participating	Livingston	12.92	15.55
REC-152	391,387	4,542,097	Non-Participating	Livingston	0.00	0.00
REC-153	391,527	4,545,328	Non-Participating	Livingston	10.13	12.08
REC-154	391,539	4,545,502	Non-Participating	Livingston	9.45	11.27
REC-155	391,683	4,551,707	Non-Participating	Livingston	0.00	0.00
REC-156	391,590	4,545,337	Non-Participating	Livingston	8.50	10.18
REC-157	391,523	4,540,540	Non-Participating	Livingston	0.00	0.00
REC-158	391,696	4,551,616	Non-Participating	Livingston	0.00	0.00
REC-159	391,664	4,545,331	Non-Participating	Livingston	7.00	8.48
REC-160	391,734	4,547,464	No Residential Structure	Livingston	21.68	25.30
REC-161	391,754	4,545,419	Non-Participating	Livingston	5.60	6.82
REC-162	391,761	4,545,564	Non-Participating	Livingston	5.28	6.50
REC-163	391,766	4,545,613	No Residential Structure	Livingston	5.13	6.33
REC-164	391,691	4,540,485	Non-Participating	Livingston	0.00	0.00
REC-165	391,810	4,546,658	Non-Participating	Livingston	3.70	4.67
REC-166	391,812	4,545,560	Non-Participating	Livingston	4.77	5.88
REC-167	391,818	4,545,428	Non-Participating	Livingston	4.80	5.90
REC-168	391,828	4,545,725	Non-Participating	Livingston	5.18	6.32
REC-169	391,906	4,548,632	Non-Participating	Livingston	0.00	2.32
REC-170	391,926	4,545,398	Non-Participating	Livingston	3.72	4.65
REC-171	392,052	4,552,255	Non-Participating	Grundy	0.00	0.00
REC-172	391,968	4,545,387	Non-Participating	Livingston	3.38	4.27
REC-173	392,137	4,551,826	No Residential Structure	Livingston	0.00	0.00
REC-174	392,156	4,550,145	Non-Participating	Livingston	0.00	0.00
REC-175	392,166	4,550,827	Non-Participating	Livingston	0.00	0.00
REC-176	392,083	4,542,192	Non-Participating	Livingston	0.00	0.00
REC-177	392,314	4,540,492	Non-Participating	Livingston	0.00	0.00
REC-178	392,350	4,542,098	Non-Participating	Livingston	0.00	0.00



Receptor	Easting	Northing	Dortising Status	Country	Flicker Durat	ion [hours/year]
Name	[m]	[m]	Participating Status	County	GE Layout	Vestas Layout
REC-179	392,468	4,548,637	Non-Participating	Livingston	6.27	7.53
REC-180	392,612	4,553,811	No Residential Structure	Grundy	0.00	0.00
REC-181	392,655	4,553,751	Non-Participating	Grundy	0.00	0.00
REC-182	392,833	4,550,251	Non-Participating	Livingston	0.00	0.00
REC-183	392,875	4,550,253	Non-Participating	Livingston	0.00	0.00
REC-184	392,943	4,553,746	Non-Participating	Grundy	0.00	0.00
REC-185	393,090	4,546,953	Non-Participating	Livingston	11.82	15.40
REC-186	393,222	4,550,039	Non-Participating	Livingston	0.00	0.00
REC-187	393,307	4,553,825	Non-Participating	Grundy	0.00	0.00
REC-188	393,196	4,545,399	Non-Participating	Livingston	0.00	0.00
REC-189	393,344	4,553,453	Non-Participating	Grundy	0.00	0.00
REC-190	393,341	4,552,948	Non-Participating	Grundy	0.00	0.00
REC-191	393,370	4,550,578	Non-Participating	Livingston	0.00	0.00
REC-192	393,390	4,550,250	Non-Participating	Livingston	0.00	0.00
REC-193	393,409	4,548,540	Non-Participating	Livingston	0.00	0.00
REC-194	393,401	4,547,108	Participating	Livingston	26.70	35.82
REC-195	393,428	4,547,191	Non-Participating	Livingston	22.73	27.25
REC-196	393,435	4,545,498	Non-Participating	Livingston	0.00	0.00
REC-197	393,502	4,549,748	Non-Participating	Livingston	0.00	0.00
REC-198	393,441	4,544,971	Non-Participating	Livingston	9.68	11.75
REC-199	393,411	4,540,687	Non-Participating	Livingston	0.00	0.00
REC-200	393,477	4,542,520	Non-Participating	Livingston	3.38	3.95
REC-201	393,967	4,541,943	Non-Participating	Livingston	0.00	0.00
REC-202	394,207	4,553,832	Non-Participating	Grundy	0.00	0.00
REC-203	394,223	4,553,762	Non-Participating	Grundy	0.00	0.00
REC-204	394,239	4,553,014	Non-Participating	Grundy	0.00	0.00
REC-205	394,183	4,540,472	Non-Participating	Livingston	0.00	0.00
REC-206	394,344	4,550,182	Non-Participating	Livingston	0.00	0.00
REC-207	394,209	4,540,549	Non-Participating	Livingston	0.00	0.00
REC-208	394,516	4,552,073	Non-Participating	Livingston	5.57	7.08
REC-209	394,666	4,550,256	Non-Participating	Livingston	0.00	0.00
REC-210	394,812	4,548,569	Non-Participating	Livingston	0.00	5.50
REC-211	394,820	4,543,861	Participating	Livingston	4.72	8.72
REC-213	394,971	4,546,488	Participating	Livingston	22.67	25.98
REC-214	394,968	4,543,543	Non-Participating	Livingston	2.22	18.83
REC-215	394,979	4,540,826	Non-Participating	Livingston	0.00	0.00



Receptor	Easting	Northing	Dorticipating Status	County	Flicker Durat	ion [hours/year]
Name	[m]	[m]	Participating Status	County	GE Layout	Vestas Layout
REC-219	395,670	4,554,260	Non-Participating	Grundy	0.00	0.00
REC-221	395,686	4,553,881	Non-Participating	Grundy	0.00	0.00
REC-223	395,775	4,552,943	Non-Participating	Grundy	0.00	0.00
REC-773	381,484	4,550,160	Non-Participating	Livingston	0.00	0.00
REC-774	388,524	4,550,278	Non-Participating	Livingston	23.33	27.73
REC-775	391,933	4,545,324	Non-Participating	Livingston	3.72	4.67
REC-776	384,594	4,545,510	Non-Participating	Livingston	2.97	3.75
REC-777	380,008	4,545,854	Non-Participating	Livingston	4.63	5.72
REC-778	380,710	4,544,705	Non-Participating	Livingston	21.73	25.95
REC-779	387,229	4,543,822	Non-Participating	Livingston	O.17	2.35
REC-780	379,985	4,542,154	Non-Participating	Livingston	0.00	0.00
REC-781	380,566	4,540,422	Non-Participating	Livingston	0.00	0.00
REC-782	382,449	4,542,699	Non-Participating	Livingston	0.00	0.00
REC-796	395,717	4,555,321	Non-Participating	Grundy	0.00	0.00
REC-876	390,073	4,542,691	Non-Participating	Livingston	11.15	17.55
REC-878	388,540	4,548,848	Non-Participating	Livingston	60.05	70.60
REC-879	390,201	4,542,740	Non-Participating	Livingston	11.23	14.37
REC-880	390,200	4,542,721	Non-Participating	Livingston	11.42	14.68
REC-881	390,254	4,542,656	Non-Participating	Livingston	11.92	15.65
REC-882	390,196	4,542,632	Non-Participating	Livingston	12.60	16.57
REC-883	390,253	4,542,587	Non-Participating	Livingston	14.37	19.93
REC-884	390,252	4,542,555	Non-Participating	Livingston	16.47	20.58
REC-885	390,194	4,542,550	Non-Participating	Livingston	15.77	21.57
REC-886	390,134	4,542,556	Non-Participating	Livingston	11.33	20.80
REC-887	390,115	4,542,551	Non-Participating	Livingston	12.23	21.63
REC-888	390,087	4,542,552	Non-Participating	Livingston	13.48	22.87
REC-889	390,047	4,542,496	Non-Participating	Livingston	20.18	23.65
REC-890	390,252	4,542,499	Non-Participating	Livingston	15.25	19.03
REC-891	390,260	4,542,445	Non-Participating	Livingston	13.05	17.07
REC-892	390,199	4,542,447	Non-Participating	Livingston	12.60	23.53
REC-893	390,185	4,542,393	Non-Participating	Livingston	14.85	20.53
REC-894	390,173	4,542,439	Non-Participating	Livingston	15.65	24.93
REC-895	390,157	4,542,396	Non-Participating	Livingston	15.00	21.27
REC-896	390,136	4,542,395	Non-Participating	Livingston	14.52	16.95
REC-897	390,027	4,542,385	Non-Participating	Livingston	10.65	12.43
REC-898	390,255	4,542,367	Non-Participating	Livingston	13.55	16.38



Receptor	Easting	Northing	Dartisipating Status	County	Flicker Durat	ion [hours/year]
Name	[m]	[m]	Participating Status	County	GE Layout	Vestas Layout
REC-899	390,254	4,542,341	Non-Participating	Livingston	12.58	14.83
REC-900	390,264	4,542,314	Non-Participating	Livingston	10.97	12.97
REC-901	390,204	4,542,337	Non-Participating	Livingston	11.45	13.73
REC-902	390,113	4,542,331	Non-Participating	Livingston	8.65	10.37
REC-903	390,121	4,542,288	Non-Participating	Livingston	5.63	6.92
REC-904	390,055	4,542,393	Non-Participating	Livingston	12.40	14.50
REC-905	389,988	4,542,329	Non-Participating	Livingston	5.03	6.28
REC-906	389,953	4,542,276	Non-Participating	Livingston	5.63	7.03
REC-907	389,981	4,542,273	Non-Participating	Livingston	5.27	6.60
REC-908	390,012	4,542,286	Non-Participating	Livingston	4.88	6.05
REC-909	390,057	4,542,284	Non-Participating	Livingston	4.35	5.48
REC-910	390,055	4,542,254	Non-Participating	Livingston	4.40	5.60
REC-911	390,067	4,542,236	Non-Participating	Livingston	4.37	5.52
REC-912	390,065	4,542,226	Non-Participating	Livingston	4.38	5.55
REC-913	390,111	4,542,213	Non-Participating	Livingston	3.97	5.03
REC-914	390,119	4,542,232	Non-Participating	Livingston	3.85	4.92
REC-915	390,119	4,542,265	Non-Participating	Livingston	4.25	5.27
REC-916	390,142	4,542,290	Non-Participating	Livingston	6.40	7.75
REC-917	390,168	4,542,289	Non-Participating	Livingston	7.03	8.55
REC-918	390,184	4,542,289	Non-Participating	Livingston	7.45	9.07
REC-919	390,208	4,542,289	Non-Participating	Livingston	8.08	9.73
REC-920	390,203	4,542,246	Non-Participating	Livingston	5.15	6.42
REC-921	390,199	4,542,213	Non-Participating	Livingston	3.50	4.42
REC-922	390,214	4,542,195	Non-Participating	Livingston	3.17	4.08
REC-923	390,203	4,542,160	Non-Participating	Livingston	3.23	4.22
REC-924	390,178	4,542,153	Non-Participating	Livingston	3.47	4.48
REC-925	390,119	4,542,181	Non-Participating	Livingston	3.93	5.02
REC-926	390,118	4,542,149	Non-Participating	Livingston	3.97	5.08
REC-927	390,065	4,542,150	Non-Participating	Livingston	4.55	5.78
REC-928	390,062	4,542,185	Non-Participating	Livingston	4.50	5.72
REC-929	389,949	4,542,155	Non-Participating	Livingston	6.17	7.82
REC-930	389,991	4,542,153	Non-Participating	Livingston	5.50	6.98
REC-931	390,014	4,542,152	Non-Participating	Livingston	5.13	6.57
REC-932	390,030	4,542,040	Non-Participating	Livingston	5.82	7.48
REC-933	390,067	4,542,051	Non-Participating	Livingston	5.10	6.63
REC-934	390,139	4,542,040	Non-Participating	Livingston	4.27	5.53



Receptor Name	Easting [m]	Northing [m]	Participating Status	County	Flicker Duration [hours/year]	
					GE Layout	Vestas Layout
REC-935	390,163	4,542,038	Non-Participating	Livingston	4.00	5.18
REC-936	390,192	4,542,041	Non-Participating	Livingston	3.70	4.78
REC-937	390,204	4,541,995	Non-Participating	Livingston	3.78	4.95
REC-938	390,176	4,541,997	Non-Participating	Livingston	4.08	5.32
REC-939	390,143	4,541,996	Non-Participating	Livingston	4.48	5.87
REC-940	390,115	4,541,996	Non-Participating	Livingston	4.87	6.37
REC-941	390,076	4,541,997	Non-Participating	Livingston	5.48	7.17
REC-942	390,038	4,541,993	Non-Participating	Livingston	6.22	8.15
REC-944	390,203	4,542,101	Non-Participating	Livingston	6.88	4.33
REC-945	390,160	4,542,104	Non-Participating	Livingston	3.35	4.85
REC-946	390,141	4,542,103	Non-Participating	Livingston	3.68	5.05
REC-947	390,073	4,542,104	Non-Participating	Livingston	3.92	5.98
REC-948	390,042	4,542,103	Non-Participating	Livingston	4.65	6.50
REC-952	390,060	4,542,339	Non-Participating	Livingston	5.10	9.15
REC-953	390,119	4,542,099	Non-Participating	Livingston	7.68	5.35
REC-954	390,201	4,542,471	Non-Participating	Livingston	4.17	22.18
REC-955	394,794	4,550,158	Non-Participating	Livingston	11.13	0.00
REC-956	394,857	4,550,196	Non-Participating	Livingston	0.00	0.00
REC-957	394,881	4,550,194	Non-Participating	Livingston	0.00	4.05
REC-1016	394,874	4,550,274	Non-Participating	Livingston	0.00	3.48
REC-1017	394,899	4,550,264	Non-Participating	Livingston	0.00	3.75
REC-1018	394,923	4,550,348	Non-Participating	Livingston	0.00	3.53
REC-1019	394,916	4,550,379	Non-Participating	Livingston	0.00	3.35
REC-1031	394,912	4,550,649	Non-Participating	Livingston	2.50	2.78
REC-1032	394,917	4,550,696	Non-Participating	Livingston	2.13	4.88
REC-1034	394,916	4,550,732	Non-Participating	Livingston	3.90	7.23
REC-1037	394,914	4,550,771	Non-Participating	Livingston	6.00	10.08
REC-1039	394,915	4,550,810	Non-Participating	Livingston	8.50	12.77
REC-1040	394,912	4,550,848	Non-Participating	Livingston	10.88	14.65
REC-1041	394,910	4,550,927	Non-Participating	Livingston	12.80	20.75
REC-1042	394,919	4,550,977	Non-Participating	Livingston	18.02	27.08
REC-1178	390,039	4,542,351	Community Building	Livingston	24.00	9.57
REC-1780	380,028	4,550,208	Community Building	Livingston	8.03	0.00



Notes:

[1] Coordinates presented in UTM NAD83 Zone 16N (meters)

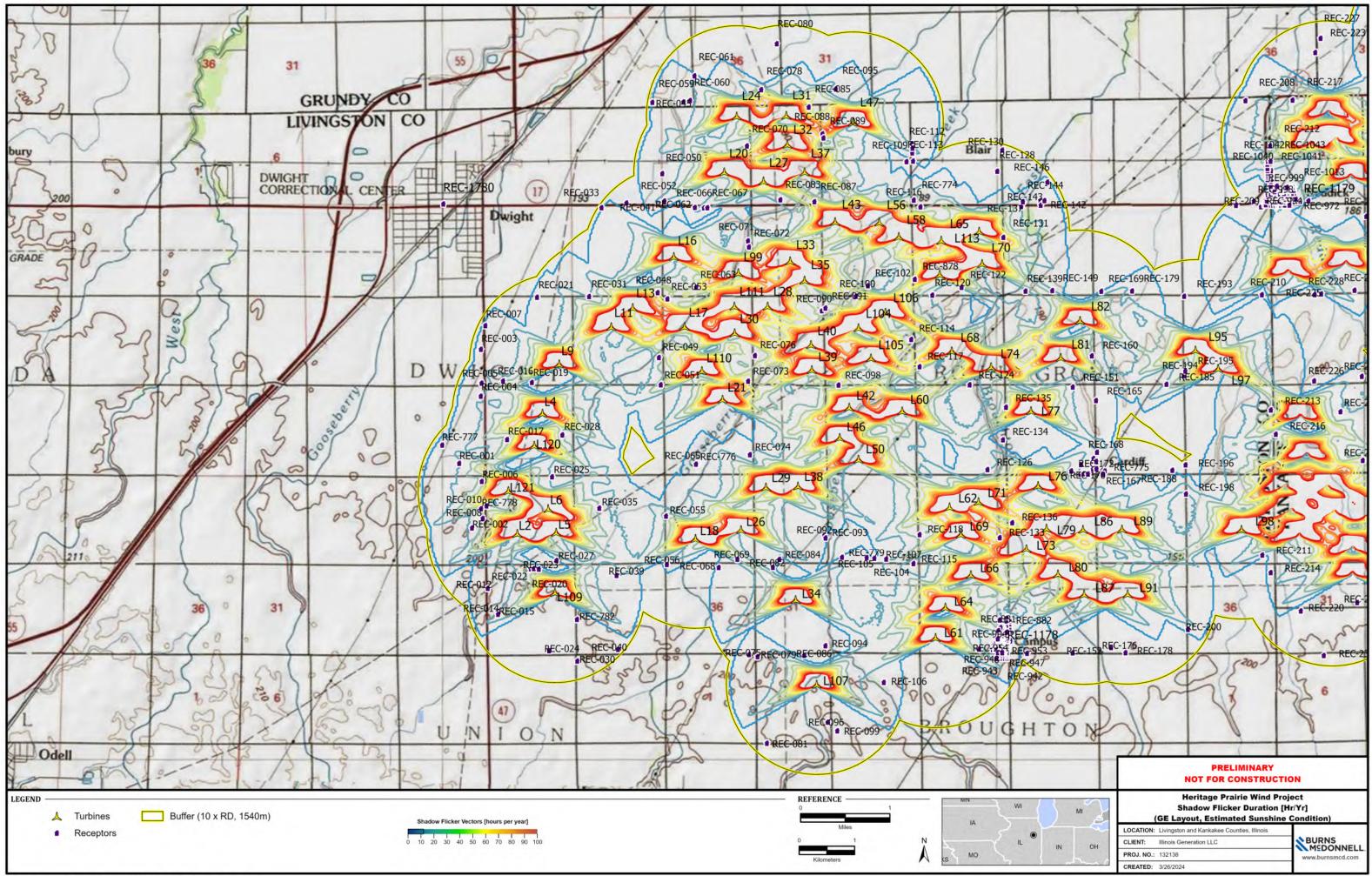
[2] Coordinates for REC-001 through REC-951 and REC-1778 through REC-1788 were provided by Illinois Generation LLC via "*HP_Wind_Residence_Survey.kmz*" on August 25, 2023. Coordinates for REC-952 through REC-1177 were identified by Burns & McDonnell using aerial imagery. Only the 289 known receptors located in Livingston County are included in Table C-1

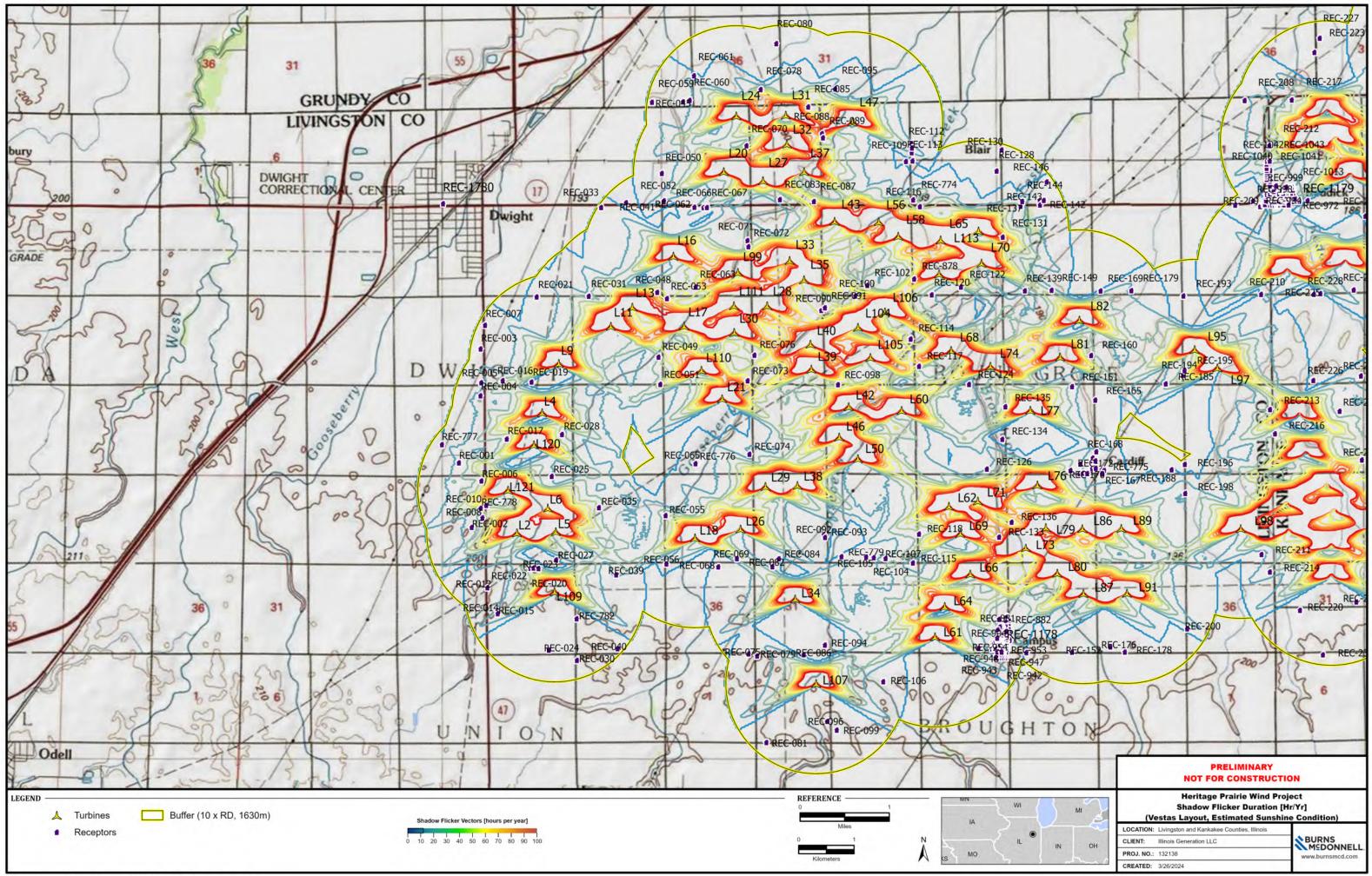
[3] Participating status provided by Illinois Generation LLC via "*Copy of 20230821_Livingston_BaseALT_Parcels_091823.xlsx*" on September 18, 2023

[4] Results based on turbine layout in Table A-2



APPENDIX D - SHADOW FLICKER DURATION MAPS





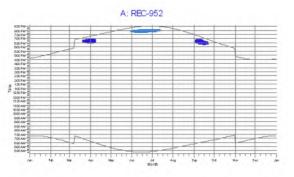
APPENDIX E - SHADOW FLICKER CALENDAR (GE LAYOUT)

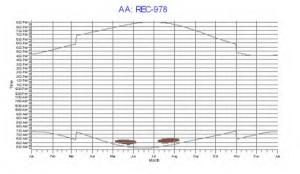
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect. Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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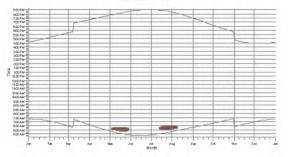
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

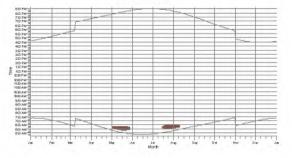




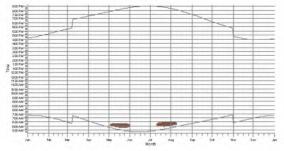
AB: REC-979



AC: REC-980

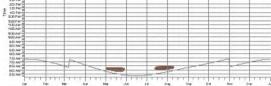






800 P

530 Pe 500 Pe 400 Pe 400 Pe 200 Pe 200 Pe 200 Pe



AE REC-982





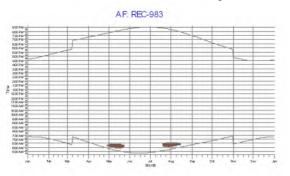


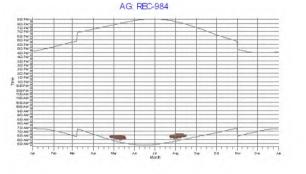
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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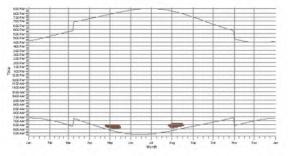
SHADOW - Calendar, graphical

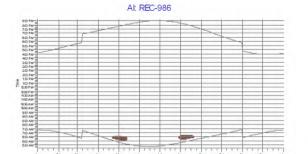
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

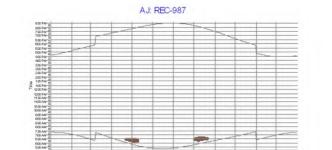




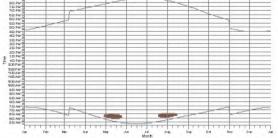










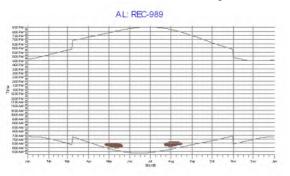


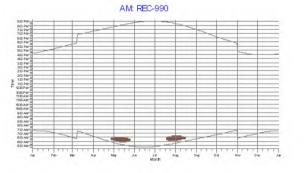
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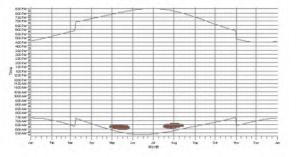
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

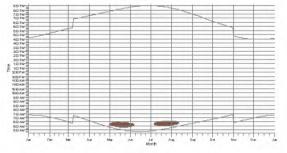




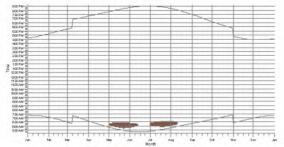
ANI REC-991



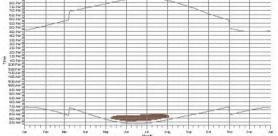
AO: REC-992







AQ: REC-994



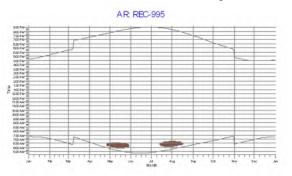


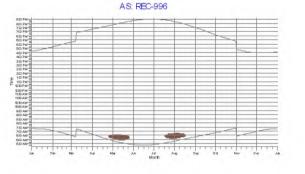
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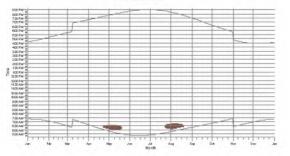
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

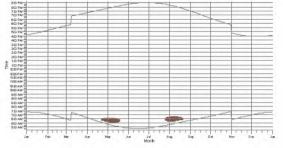




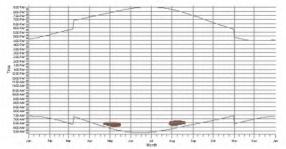
AT: REC-997



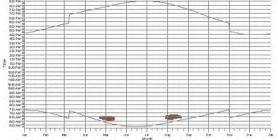
AU: REC-998







AW: REC-1000



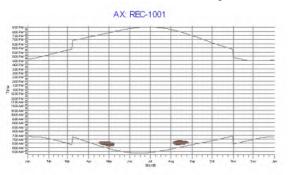


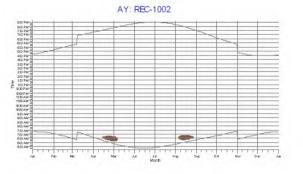
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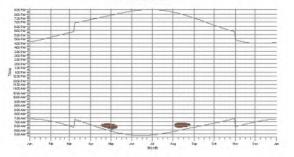
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

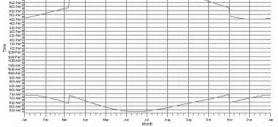


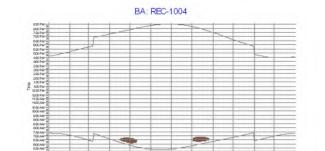


AZ: REC-1003



B: REC-953

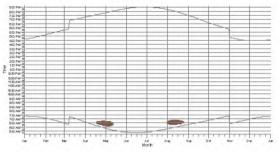




WTGs 36: L61

82: K13



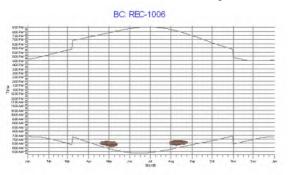


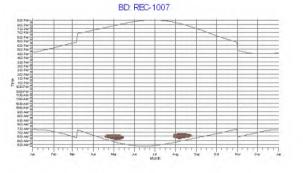
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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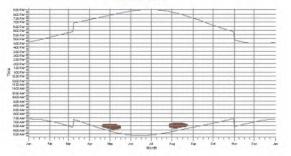
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

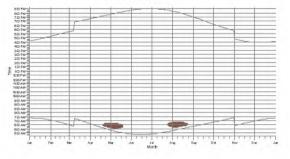




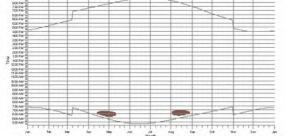
BE: REC-1008



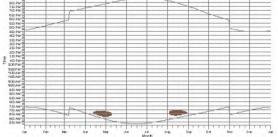
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BH: REC-1011



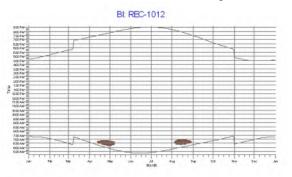


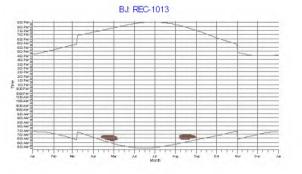
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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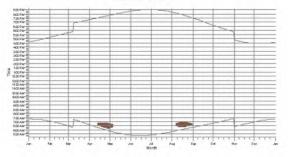
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

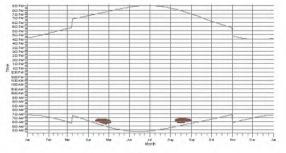




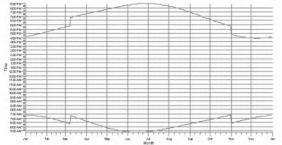
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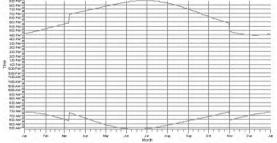
BL: REC-1015











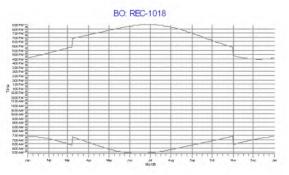


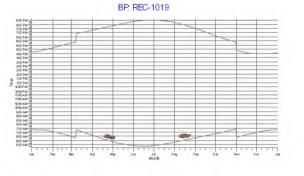
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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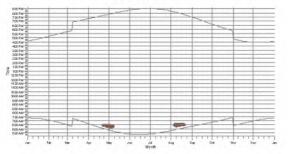
SHADOW - Calendar, graphical



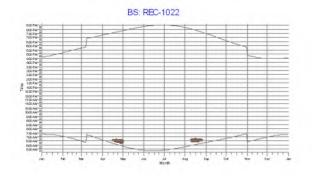




BQ: REC-1020

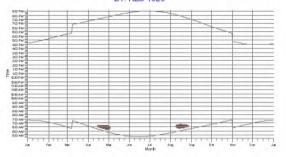


BR: REC-1021



WTGs 82: K13

BT: REC-1023



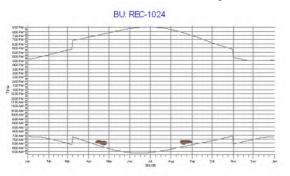


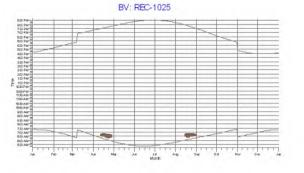
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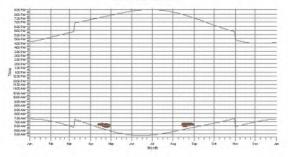
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

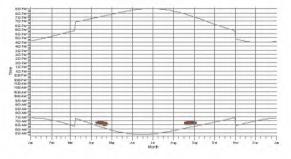




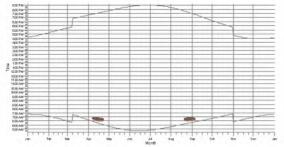
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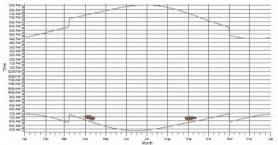
BX: REC-1027







BZ: REC-1029



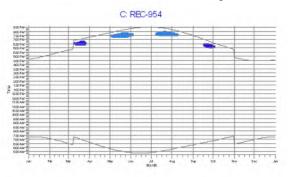


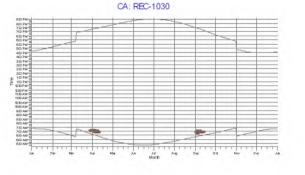
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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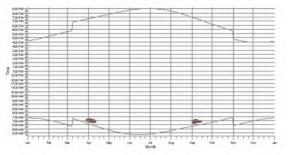
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

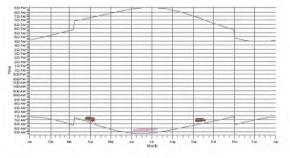




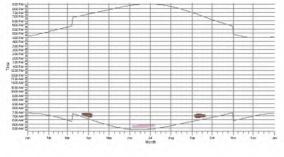
CB: REC-1031



CC: REC-1032

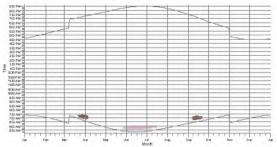






WTGs 36: L61 39: L64 80: K11 82: K13





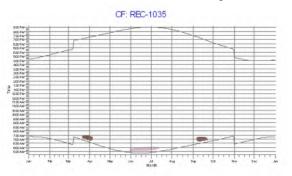


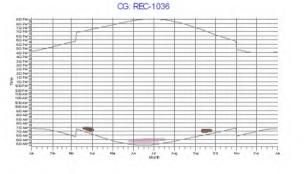
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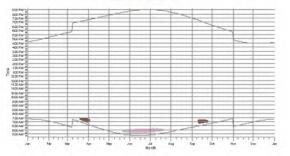
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

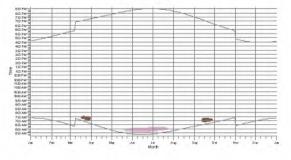




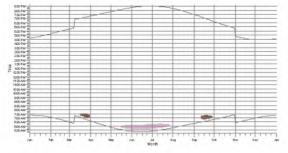
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CI: REC-1038

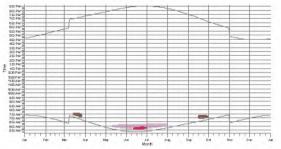






WTGs 80: K11 82: K13 139: K502

CK: REC-1040



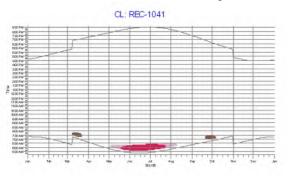


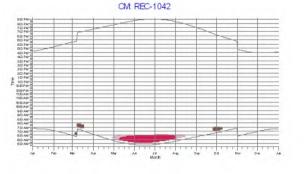
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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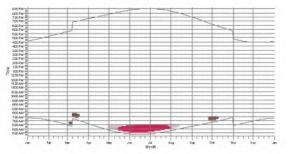
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

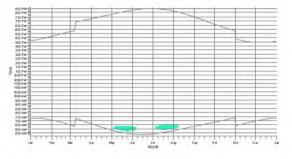


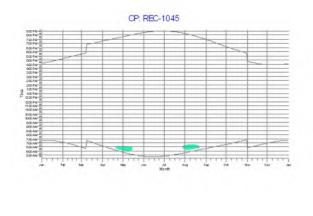


CN: REC-1043



CO: REC-1044



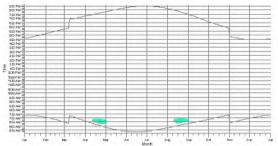


82: K13

WTGs

80: K11

CQ: REC-1046



104: K92

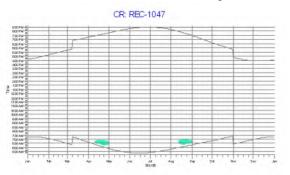
139: K502

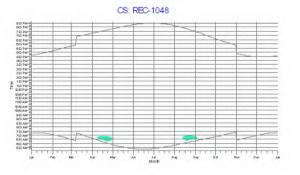
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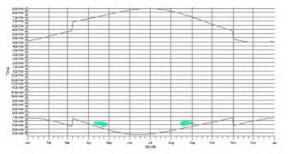
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)



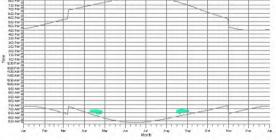


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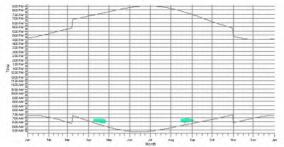




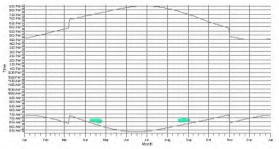
CU: REC-1050











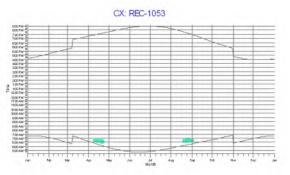
WTGs 104: K92

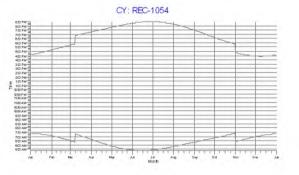
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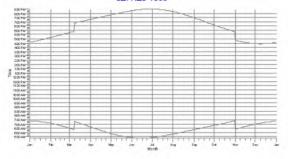
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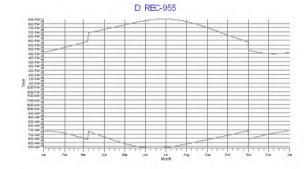




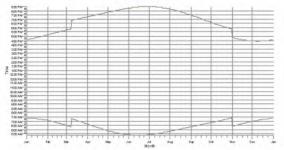


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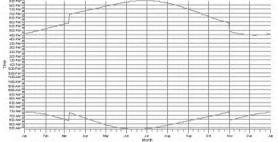








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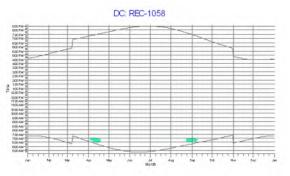
WTGs 104: K92

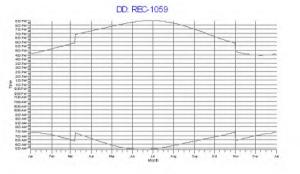
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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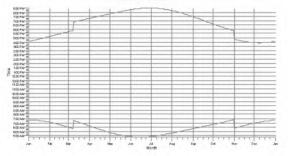
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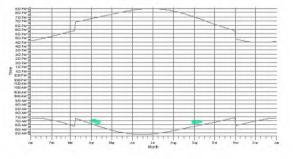


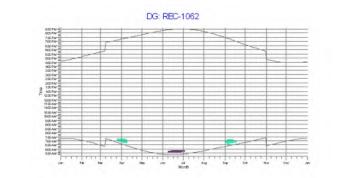


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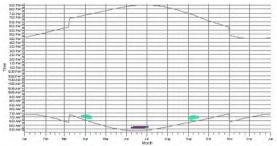
DF: REC-1061





WTGs 102: K39 104: K92



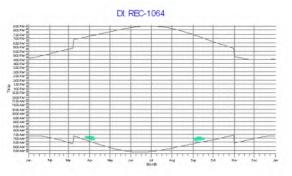


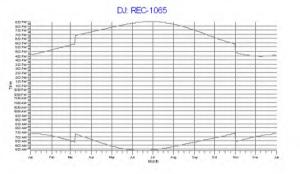
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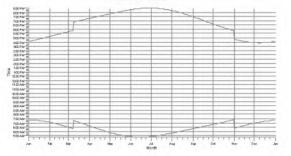
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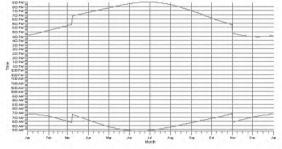




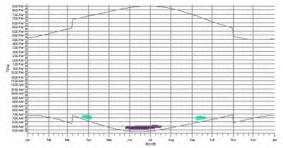
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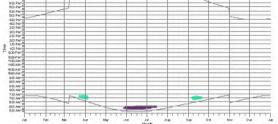








DN: REC-1069



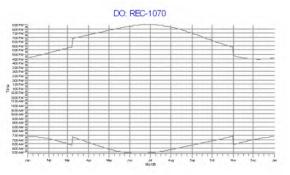


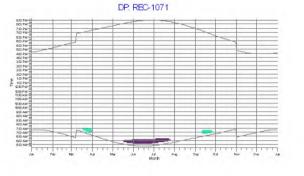
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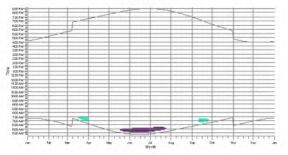
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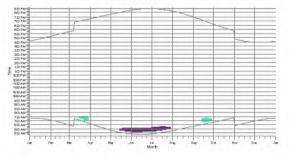




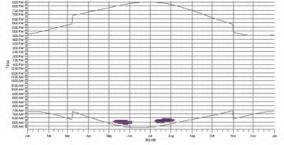
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DR: REC-1073

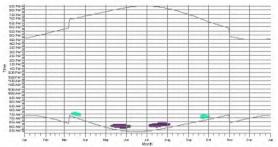












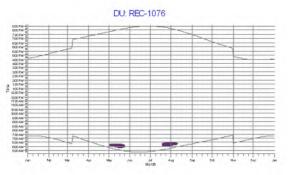
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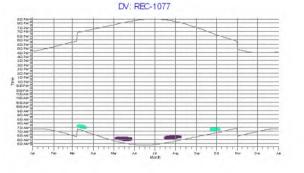
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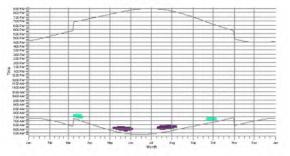
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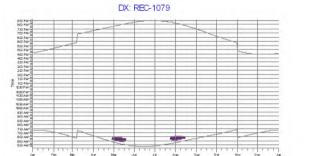


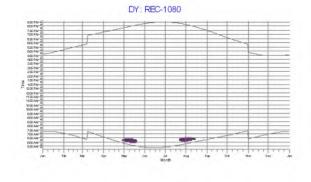






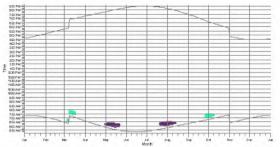






WTGs 102: K39 104: K92

DZ: REC-1081

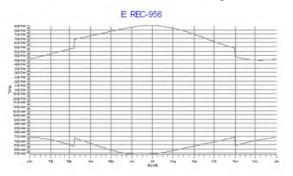


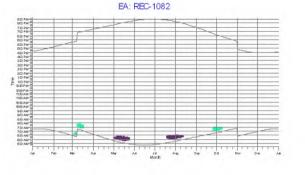
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect. Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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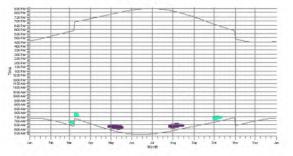
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

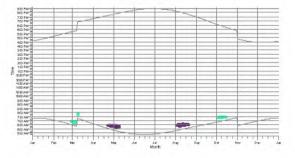


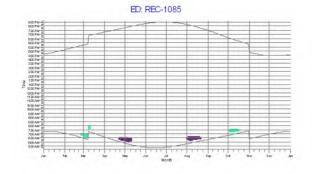


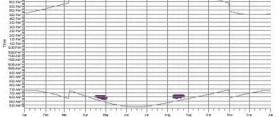
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EC: REC-1084







EE REC-1086

102: K39 104: K92

WTGs

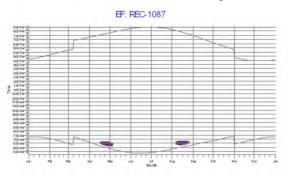


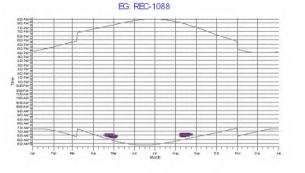
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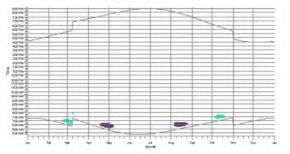
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

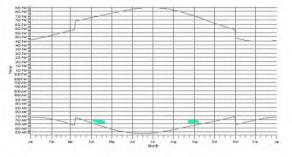


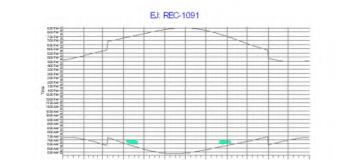


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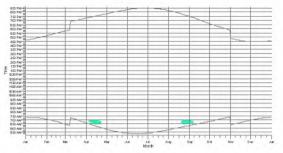
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EK: REC-1092

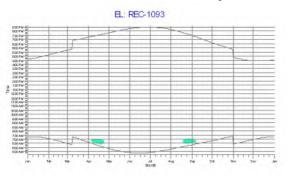


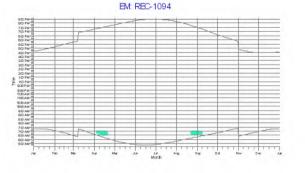
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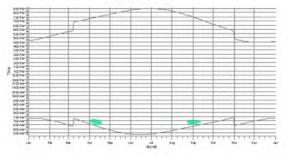
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

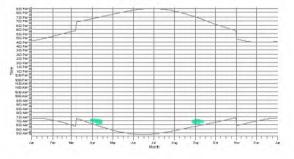




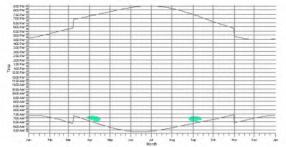
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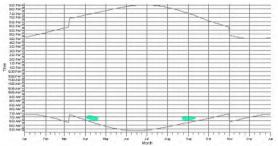
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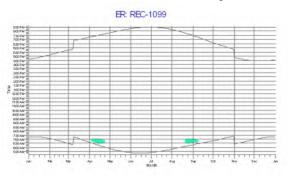
WTGs 104: K92

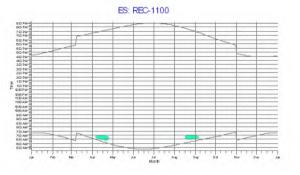
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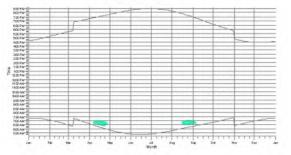
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

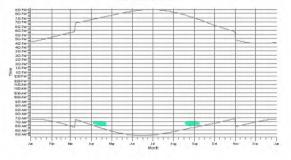




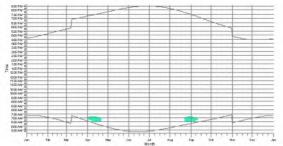
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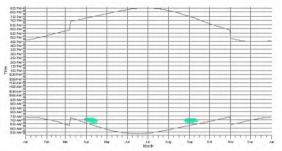
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EW: REC-1104



WTGs 104: K92

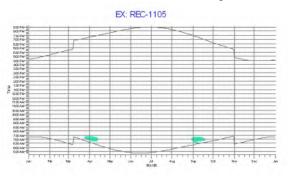


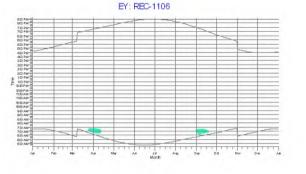
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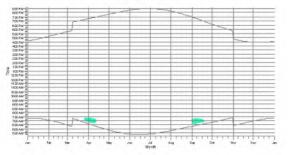
SHADOW - Calendar, graphical

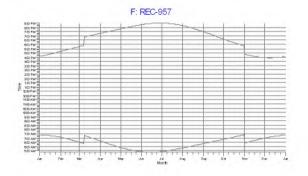
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

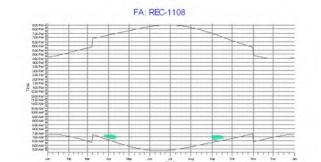




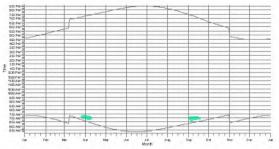












WTGs 104: K92

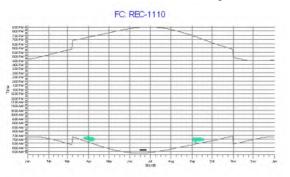


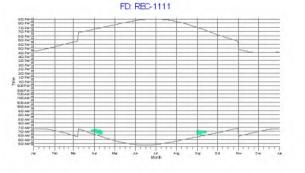
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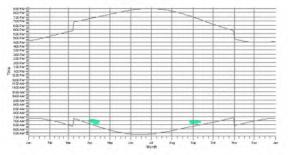
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Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

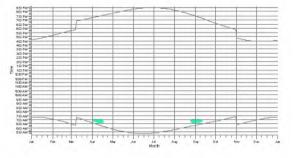


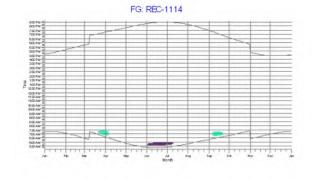


FE REC-1112



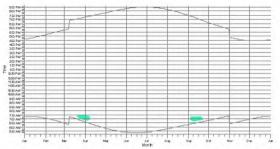
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WTGs 102: K39 104: K92

FH: REC-1115

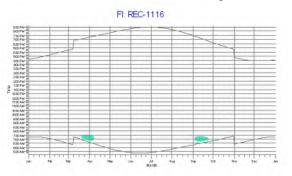


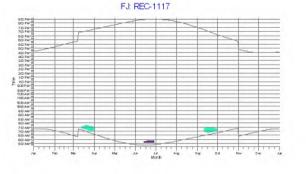
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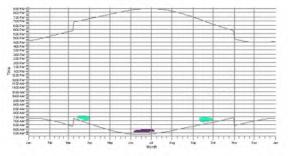
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

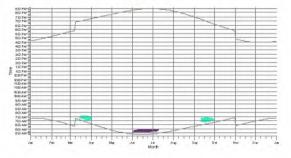


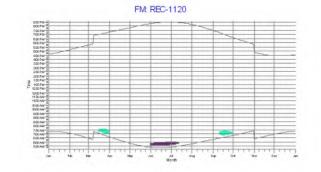


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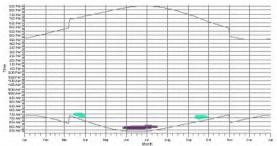
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WTGs 102: K39 104: K92



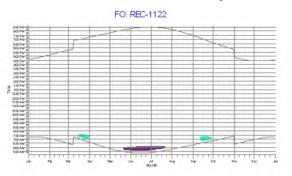


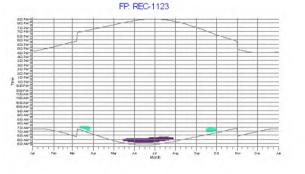
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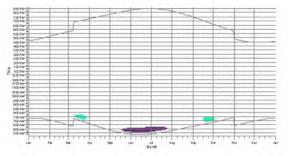
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

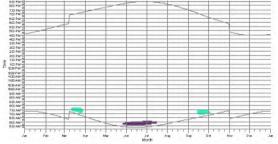




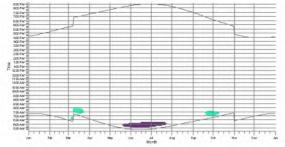






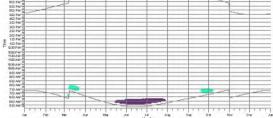








FT: REC-1127





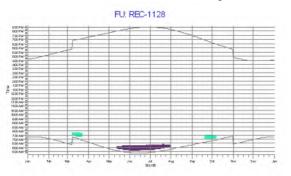


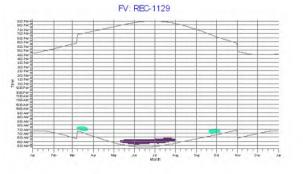
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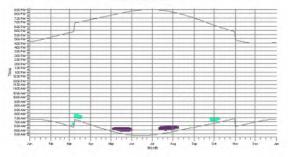
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

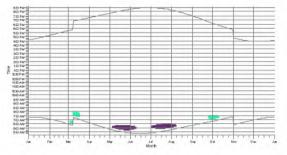


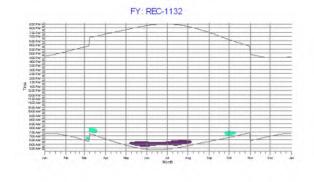


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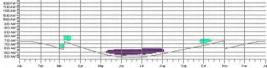


FX: REC-1131





500 PM 500 PM 500 PM 400 PM 400 PM 200 PM 200 PM 200 PM 200 PM 500 PM 500 PM



FZ: REC-1133

WTGs 102: K39 104: K92

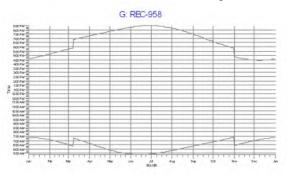
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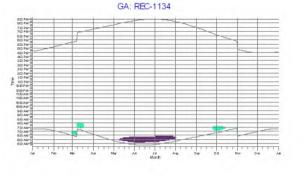
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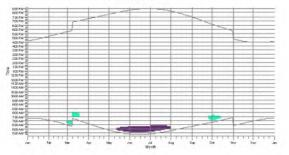
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

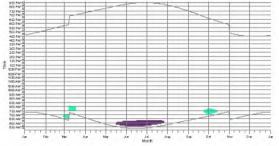




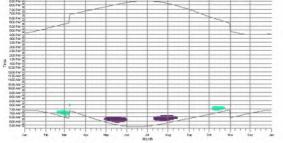
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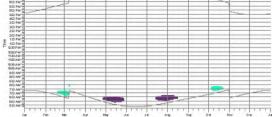


GC: REC-1136









GE REC-1138







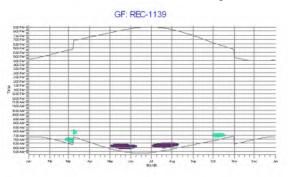
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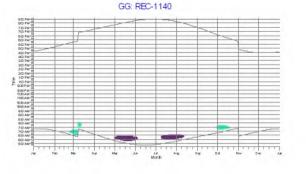
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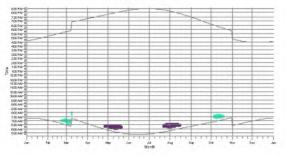
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

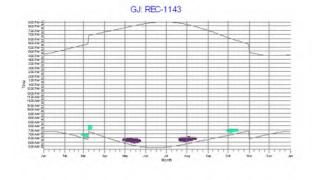












104: K92

WTGs

102: K39

GK: REC-1144





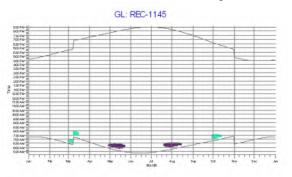


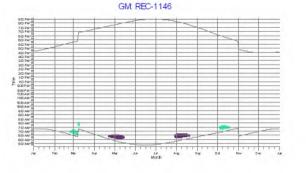
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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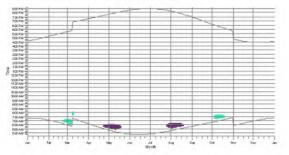
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

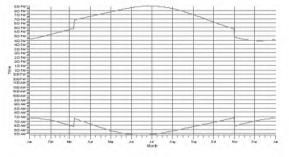




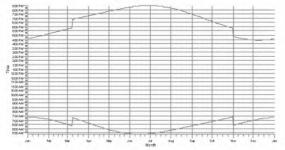




GO: REC-1148



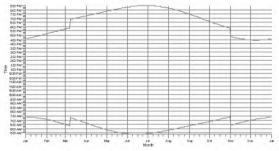






104: K92





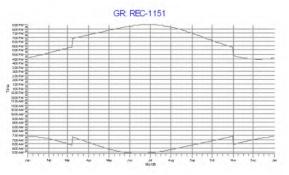


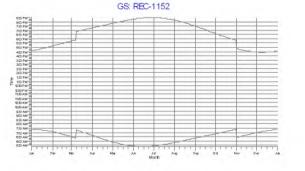
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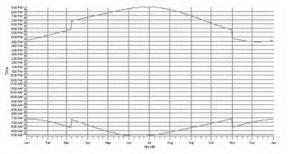
SHADOW - Calendar, graphical

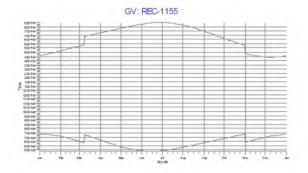




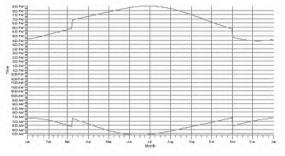


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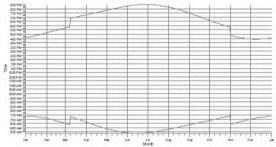




GU: REC-1154





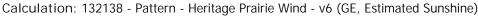


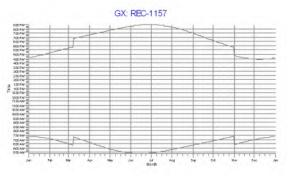


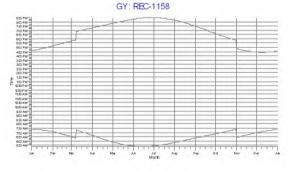
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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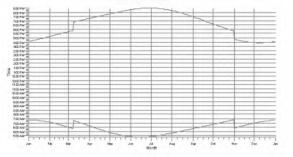
SHADOW - Calendar, graphical



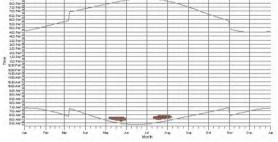




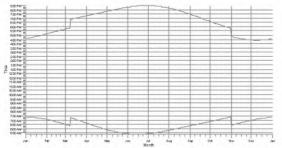
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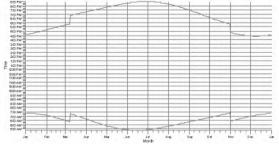
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HB: REC-1161



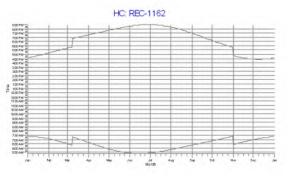


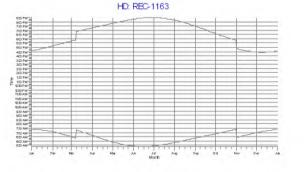
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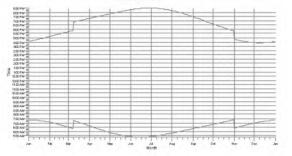
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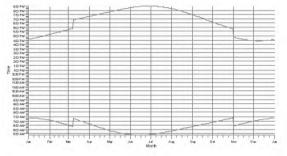




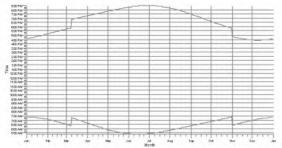
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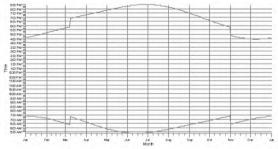
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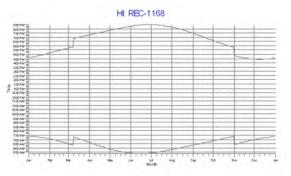


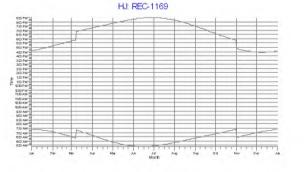
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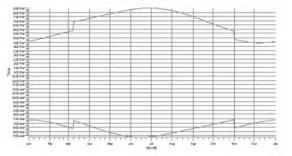
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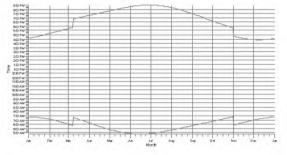




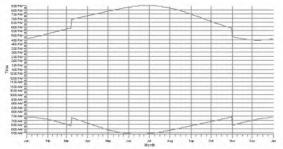
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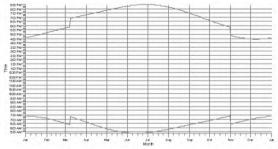
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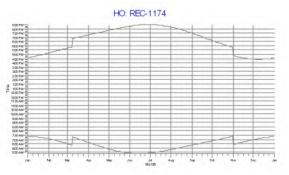


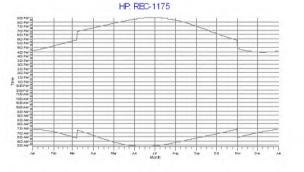
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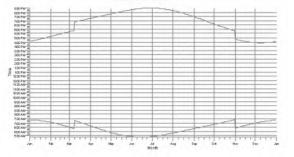
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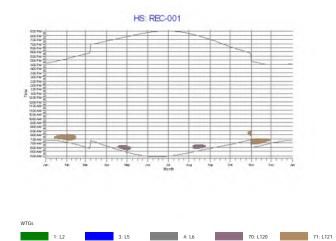


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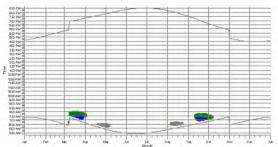


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HR: REC-1177



HT: REC-002

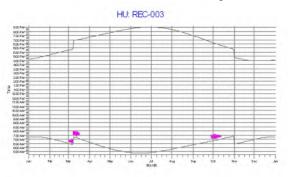


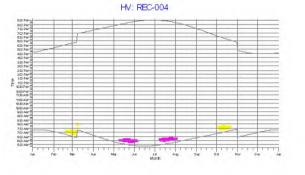


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

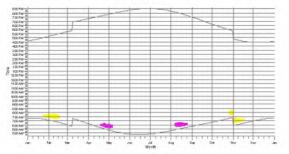
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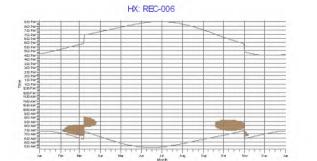
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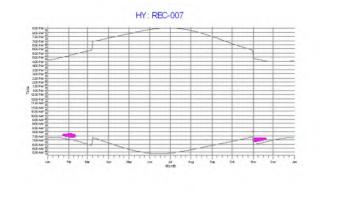






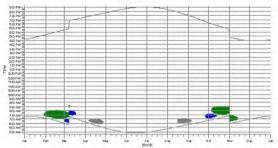








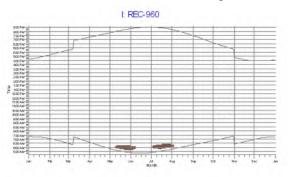


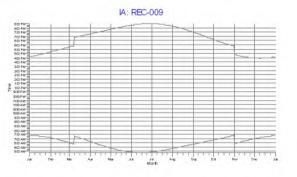


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

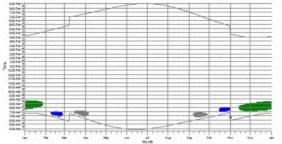
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SHADOW - Calendar, graphical

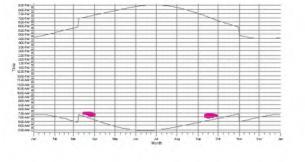




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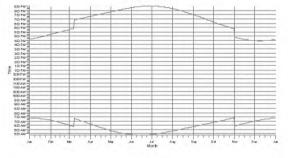




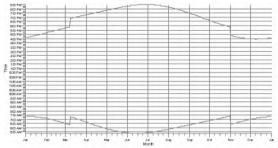




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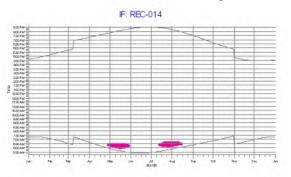


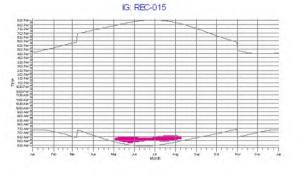
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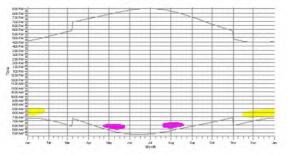
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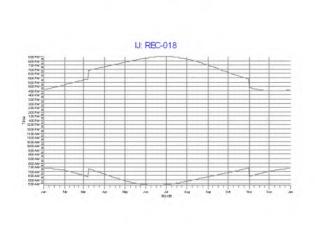
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)





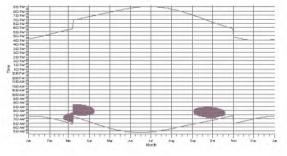
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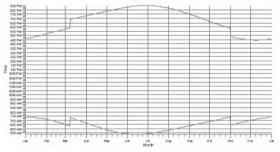




II: REC-017





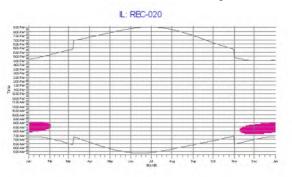


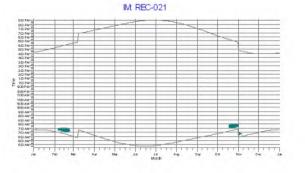
windPRO

Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

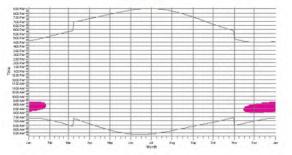
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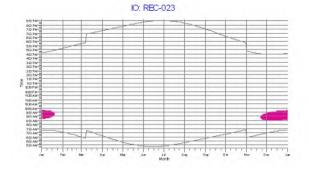
SHADOW - Calendar, graphical



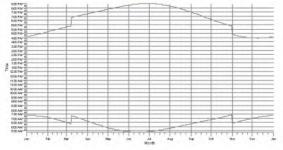


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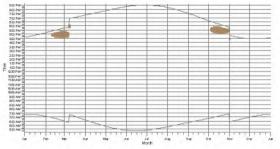












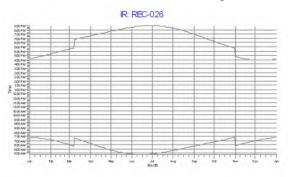


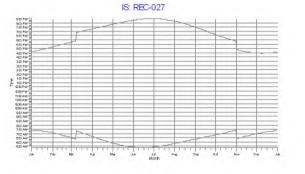
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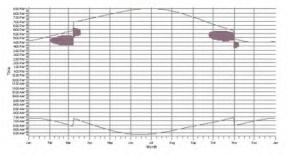
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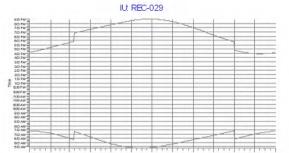
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)





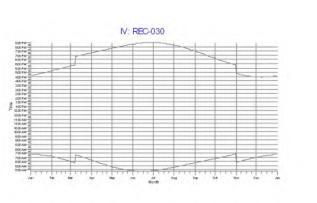




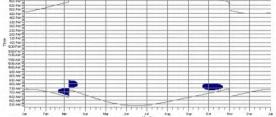


Ju Mont

IW: REC-031



800 F 730 F 7:00 Pe 6:20 Pe 6:00 Pe



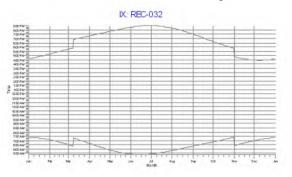
WTGs 7: L13 70: L120

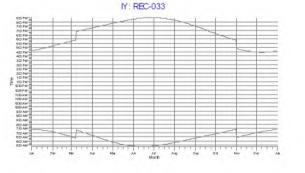


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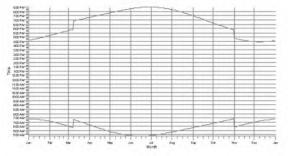
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SHADOW - Calendar, graphical

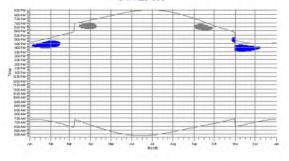






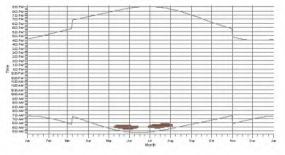




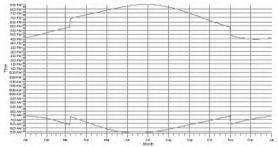




J: REC-961







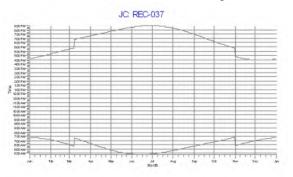


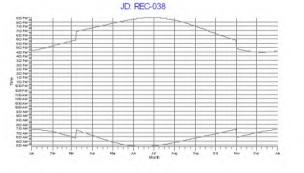
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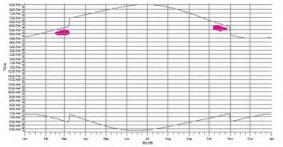
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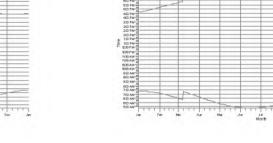
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

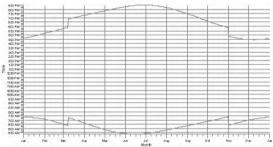




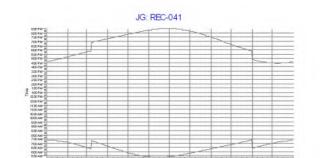




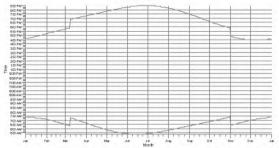




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WTGs 66: L109

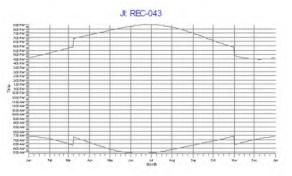


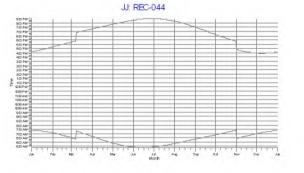
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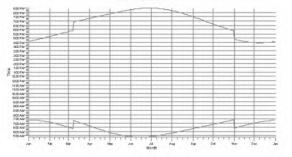
SHADOW - Calendar, graphical

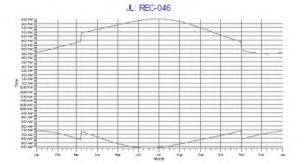
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)



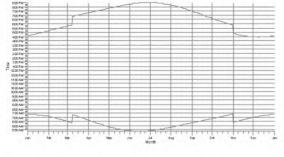


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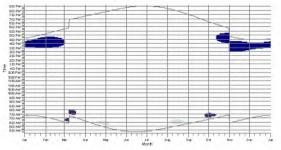


JM: REC-047





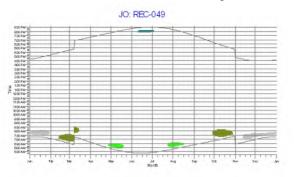
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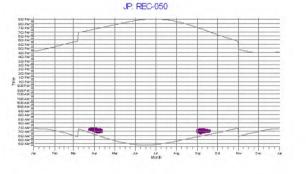


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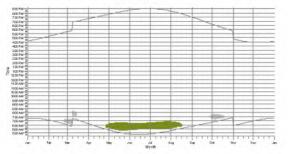
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SHADOW - Calendar, graphical

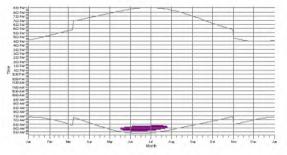


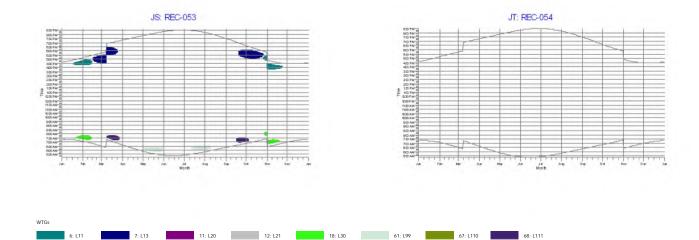










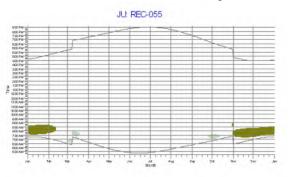


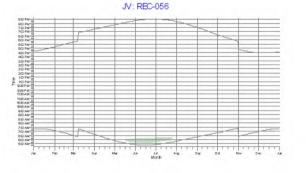


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

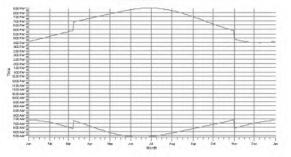
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SHADOW - Calendar, graphical

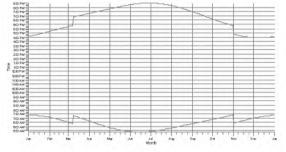




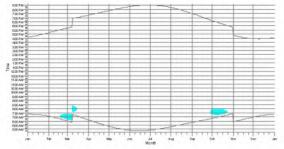




JX: REC-058

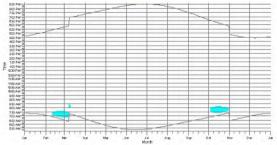










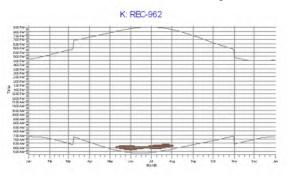


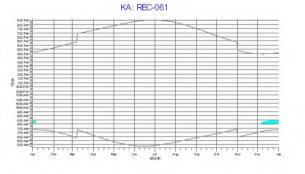


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

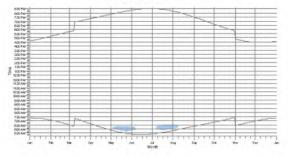
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SHADOW - Calendar, graphical

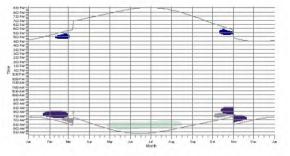


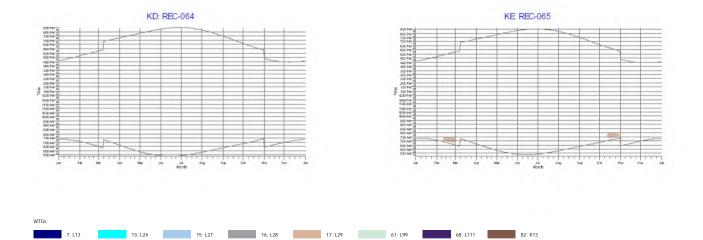






KC: REC-063



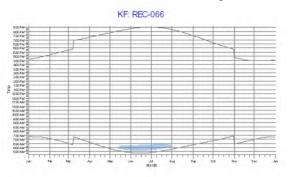


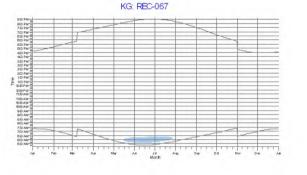
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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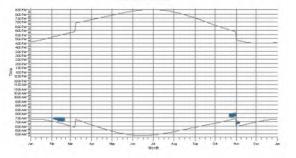
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

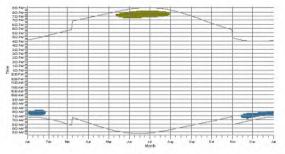


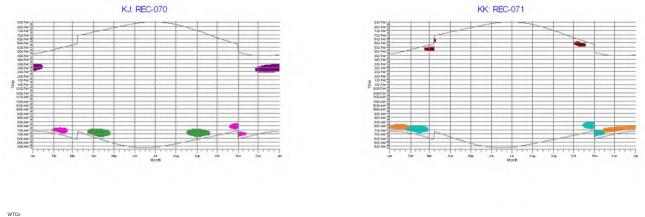


KH: REC-068







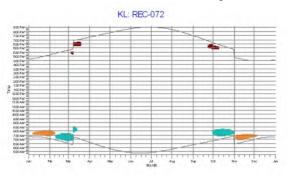


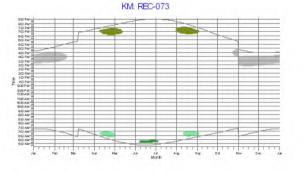
windPRO

Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

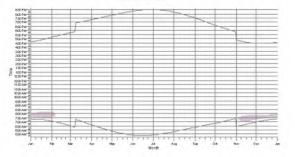
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SHADOW - Calendar, graphical

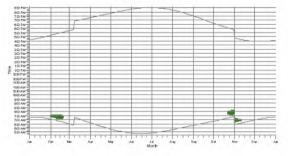


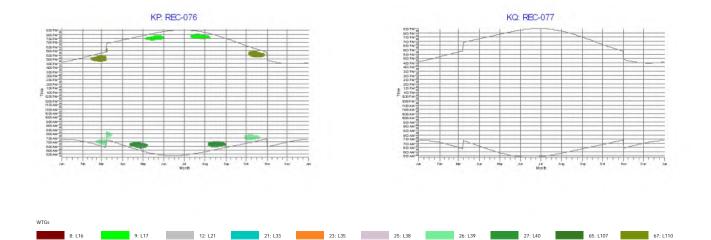


KN: REC-074



KO: REC-075



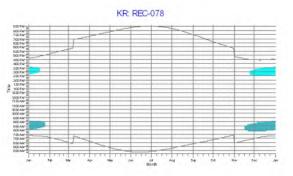


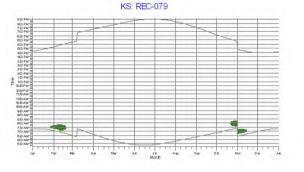
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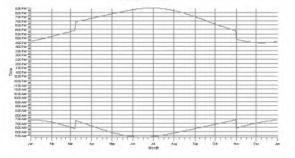
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

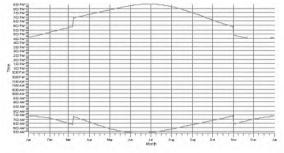


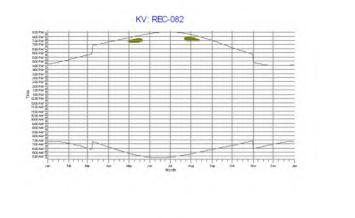










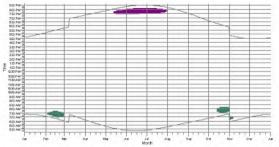


WTGs

10: L18

11: L20





13: L24

19: L31

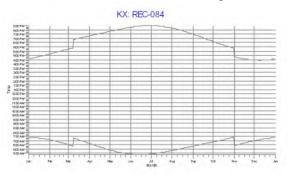
29: L43

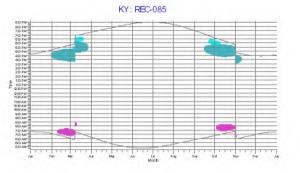
65: L107

Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

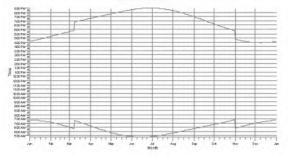
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SHADOW - Calendar, graphical

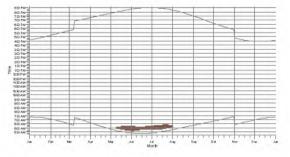


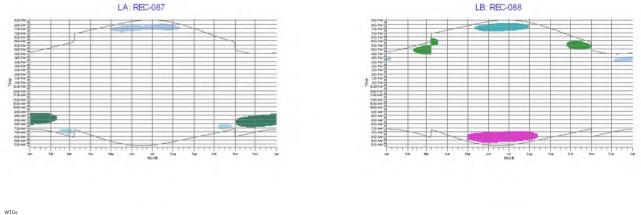






L: REC-963



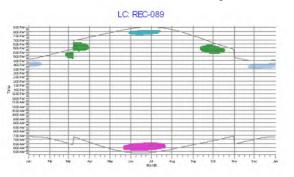


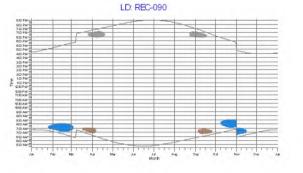


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

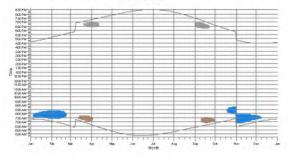
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SHADOW - Calendar, graphical

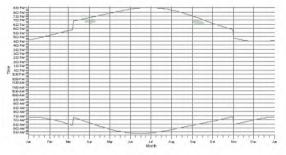


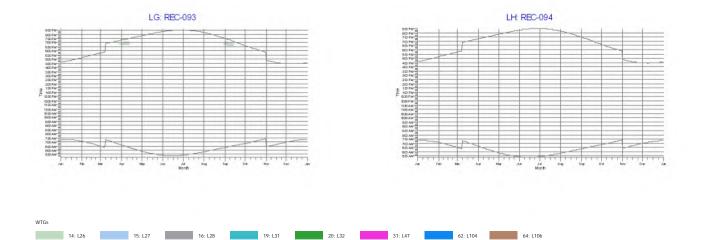


LE REC-091







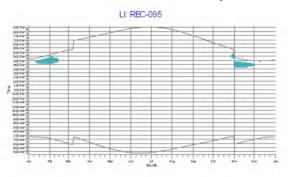


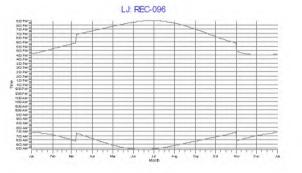
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect. Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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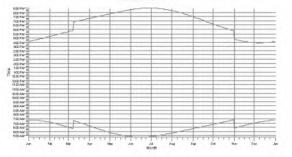
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

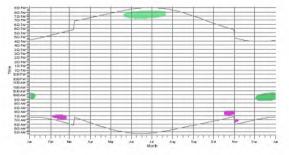


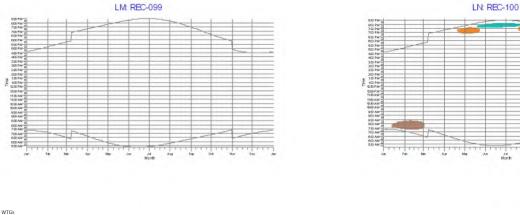






LL: REC-098



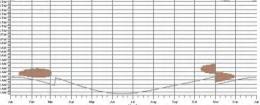


26: L39

28: L42

35: L60

64: L106



23: L35

19: L31

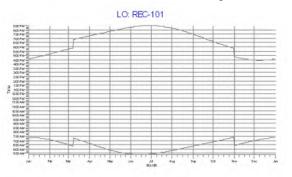
21: L33

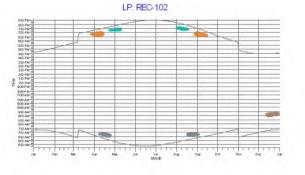
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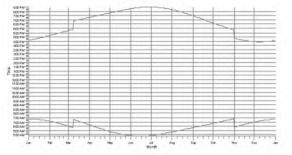
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

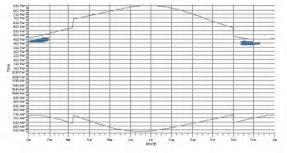


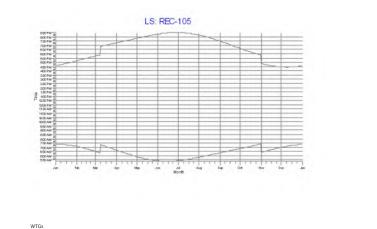






LR: REC-104





23: L35

38: L63

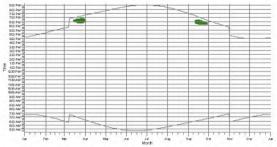
64: L106

65: L107

21: L33

22: L34



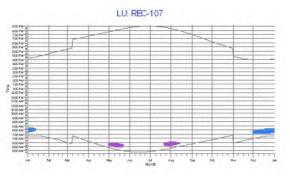


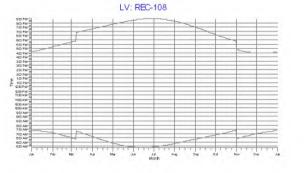
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect. Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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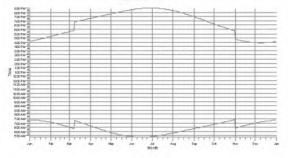
SHADOW - Calendar, graphical



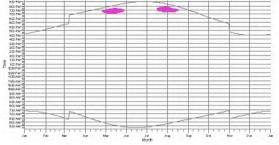




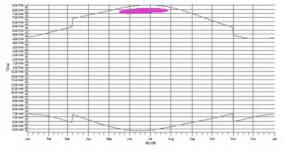
LW: REC-109



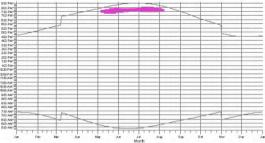
LX: REC-110







200 PM 1120 AM 1120 AM 1100 AM 1000 AM



LZ: REC-112

WTGs 31: L47 39: L64 43: L69

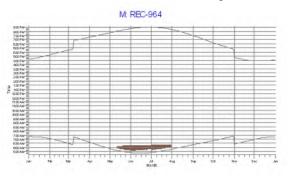


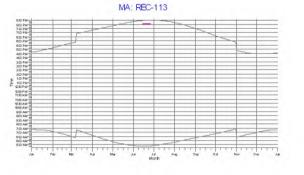
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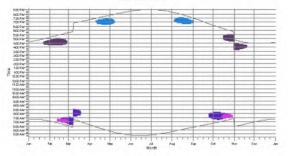
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

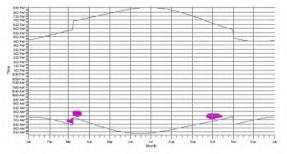


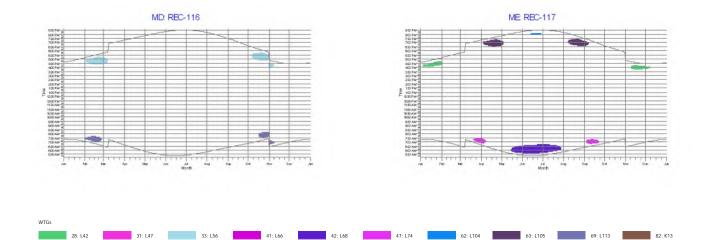


MB: REC-114









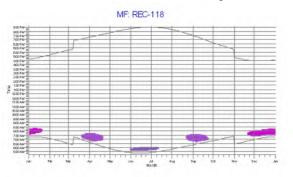
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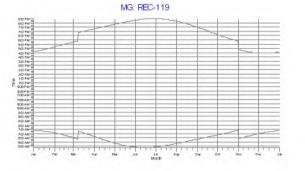
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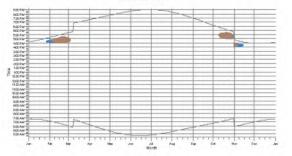
SHADOW - Calendar, graphical

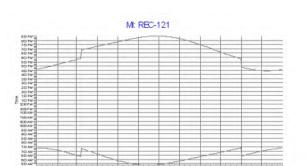
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)



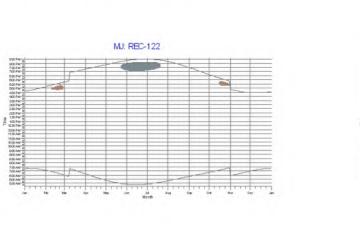


MH REC-120



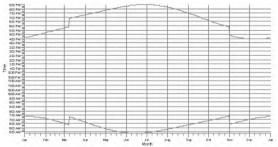


Ju





MK: REC-123

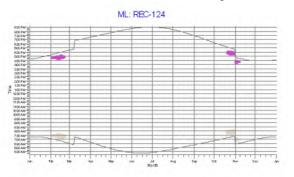


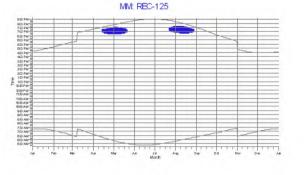
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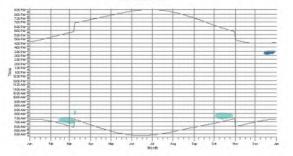
SHADOW - Calendar, graphical

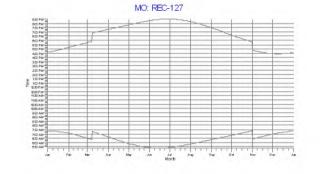
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

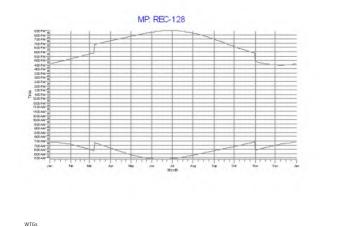




MNI REC-126



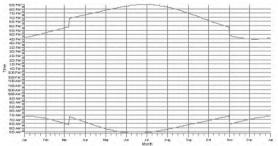




36: L61

35: L60

MQ: REC-129





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37: L62

48: L76

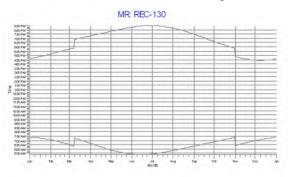
49: L77

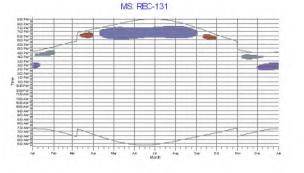
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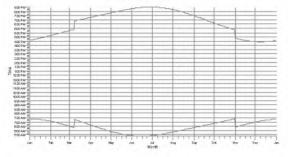
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

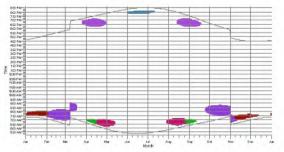


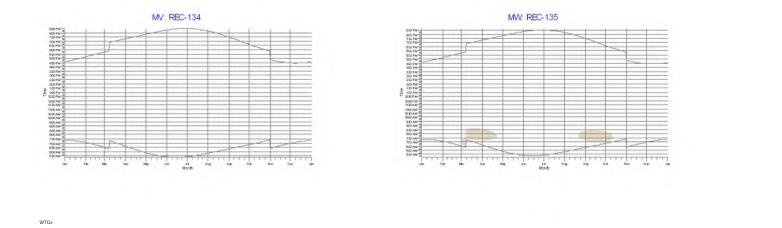












46: L73

49: L77

50: L79

44: L70

40: L65

43: L69

37: L62

38: L63

L80

54: L86

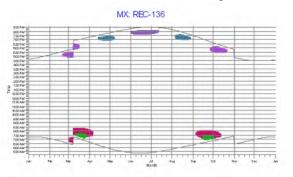
69: L113

Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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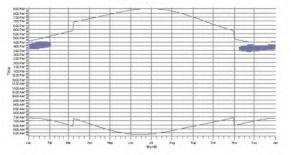
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

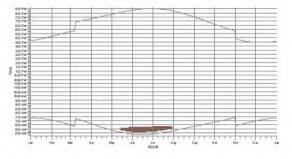


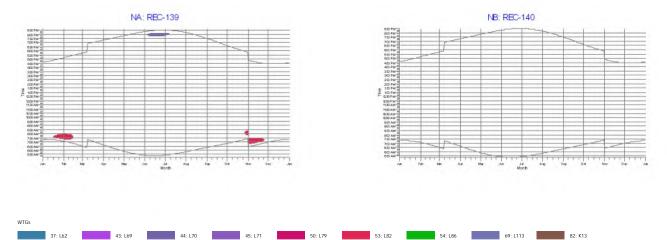






N: REC-965





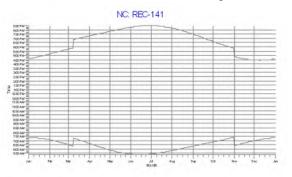
 37: L62
 43: L69
 44: L70
 45: L71
 50: L79
 53: L82
 54: L86
 69: L113

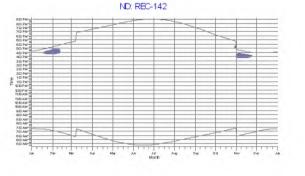
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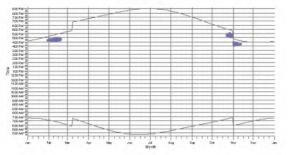
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

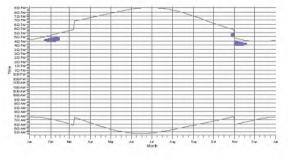




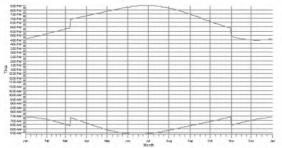
NE REC-143



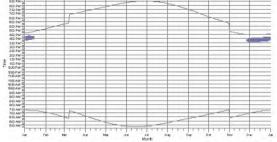
NF: REC-144







NH: REC-146



WTGs 69: L113

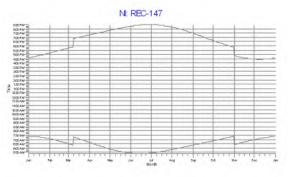


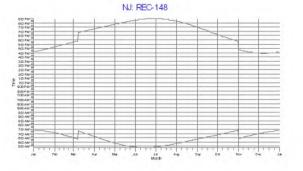
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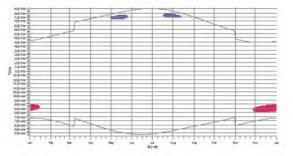
SHADOW - Calendar, graphical

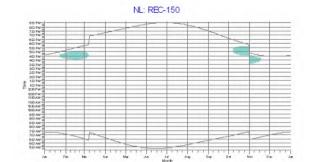


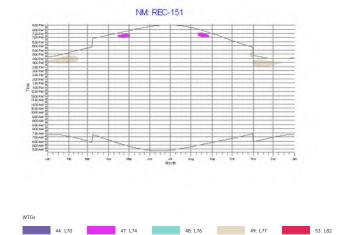




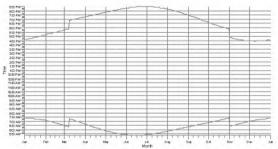
NK: REC-149







NN: REC-152

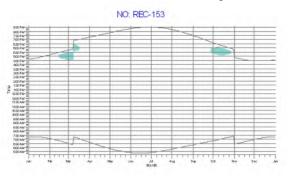


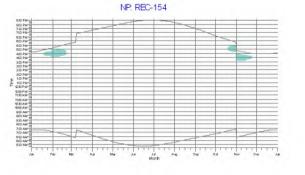


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

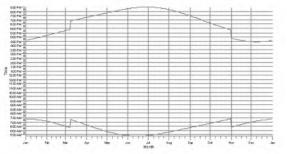
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SHADOW - Calendar, graphical

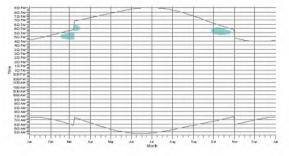




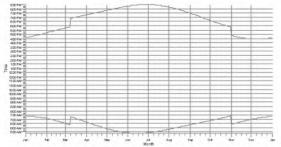




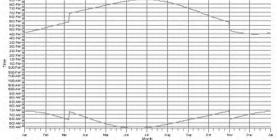
NR: REC-156







NT: REC-158



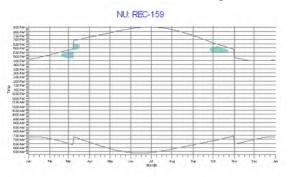


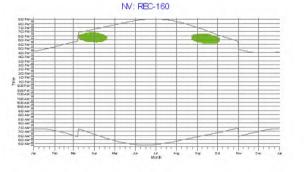
WTGs 48: L76

Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

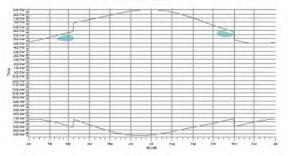
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SHADOW - Calendar, graphical

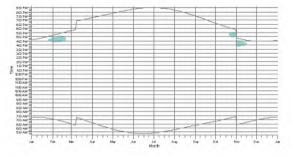




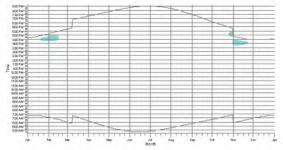
NW: REC-161



NX: REC-162

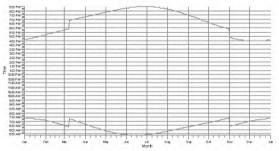






WTGs 48: L76 52: L81

NZ: REC-164

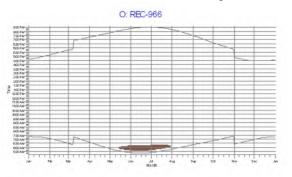


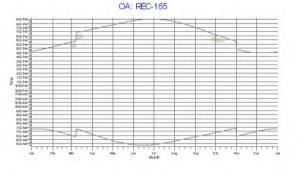


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

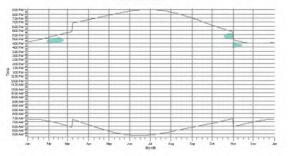
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SHADOW - Calendar, graphical

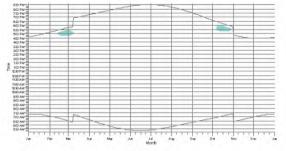




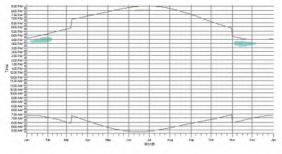
OB: REC-166



OC: REC-167

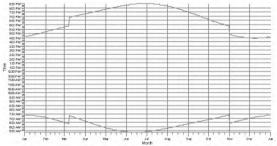












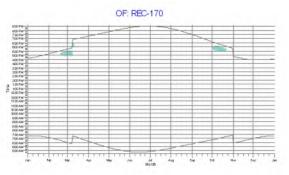


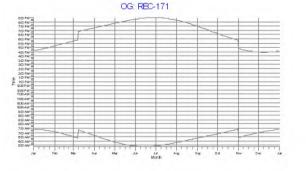
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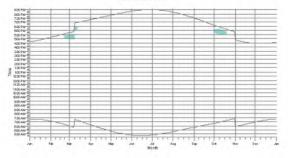
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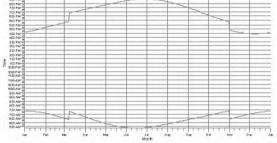




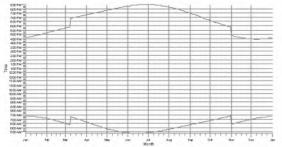
OH REC-172



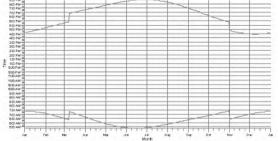
OI: REC-173







OK: REC-175



WTGs 48: L76

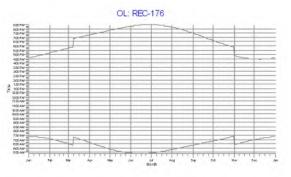


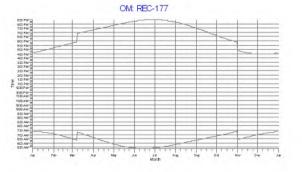
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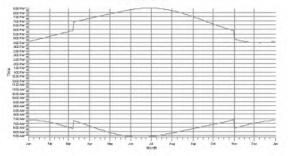
SHADOW - Calendar, graphical



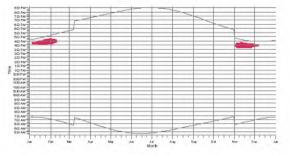




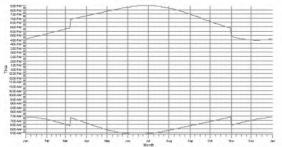
ON REC-178



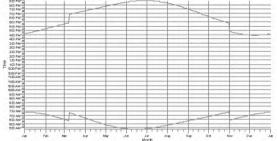
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OQ: REC-181



WTGs 53: L82

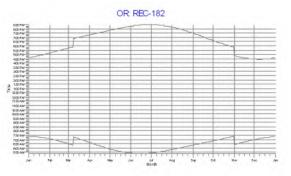


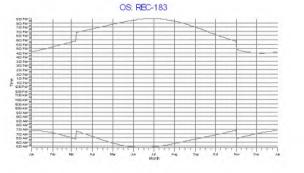
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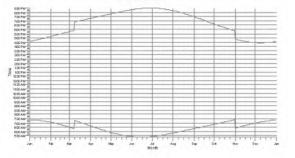
SHADOW - Calendar, graphical



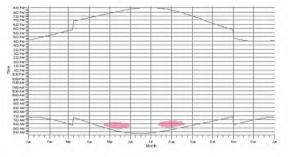




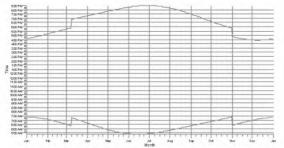
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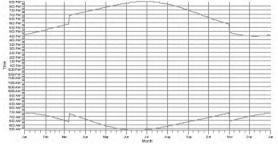
OU: REC-185







OW: REC-187



WTGs 59: L97

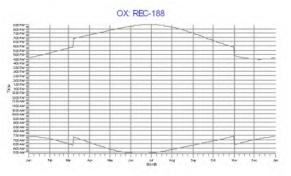


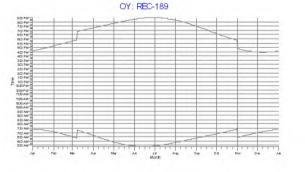
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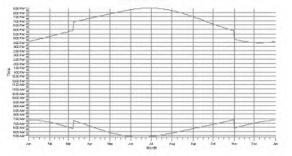
SHADOW - Calendar, graphical





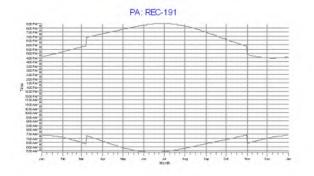


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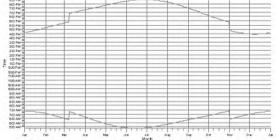


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P: REC-967







PB: REC-192

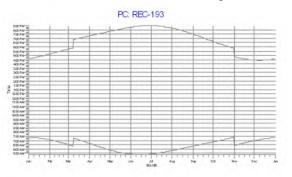
WTGs 82: K13

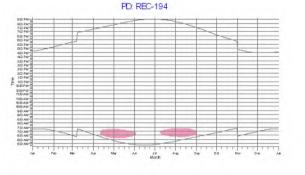
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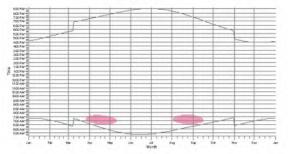
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

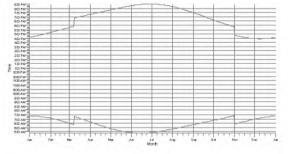




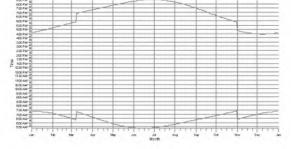
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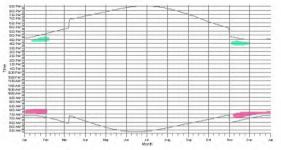












windPRO

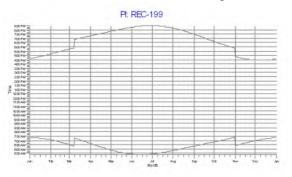
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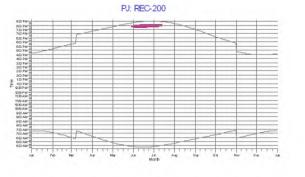
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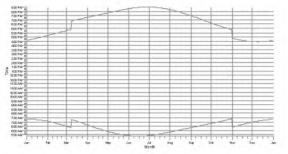
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)



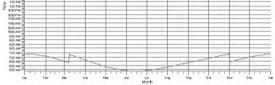




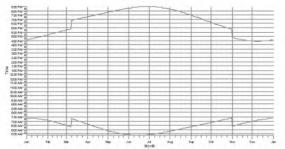




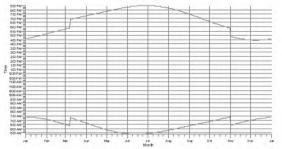
PL: REC-202







PN: REC-204



57: L91



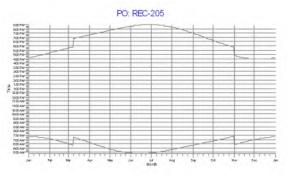
WTGs

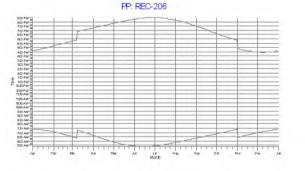
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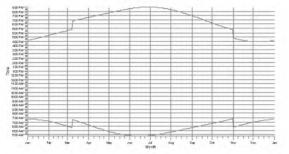
SHADOW - Calendar, graphical



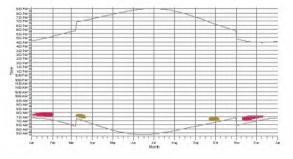


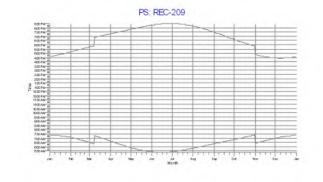


PQ: REC-207



PR: REC-208

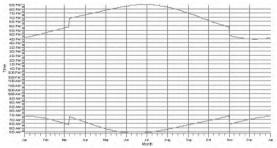




139: K502

WTGs 78: K8

PT: REC-210



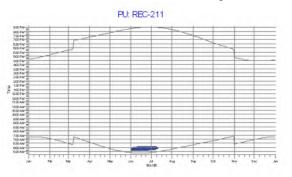


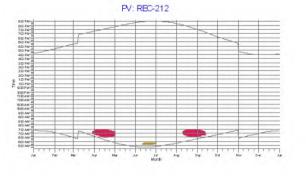
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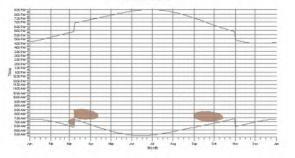
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

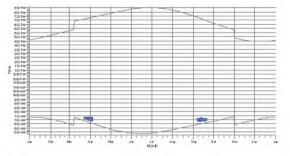


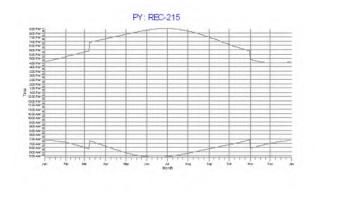


PW: REC-213



PX: REC-214







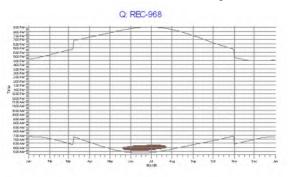
WTGs 75: K5 76: K6 78: K8 80: K11 83: K14 139: K502 114: K206

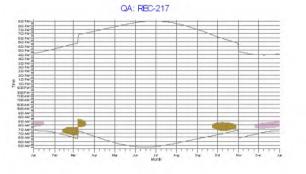
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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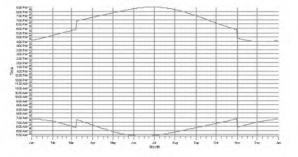
SHADOW - Calendar, graphical

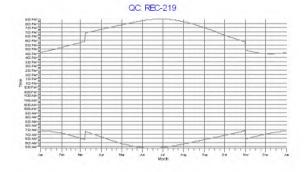
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)



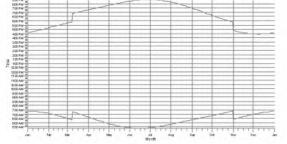


QB: REC-218



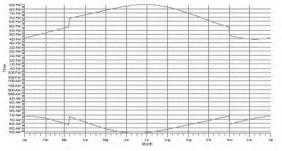






WTGs 78: K8 80: K11 82: K13

QE REC-221

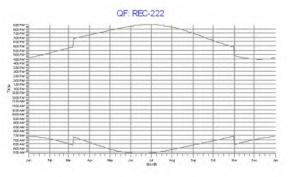


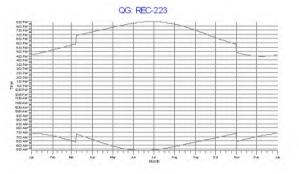


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

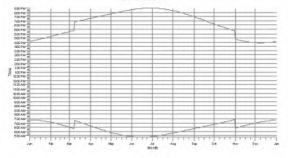
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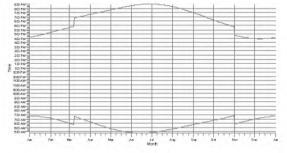




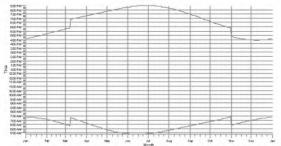
QH REC-224



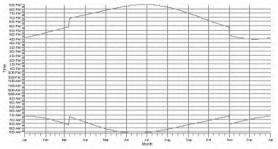
QI: REC-225













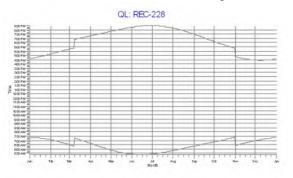
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

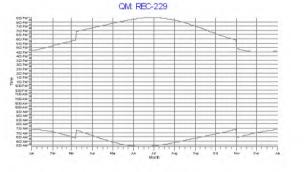
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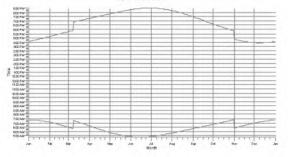
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)



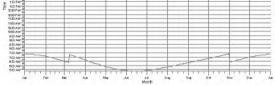


QNI REC-230

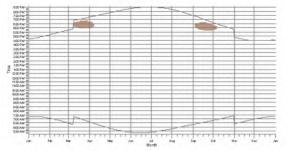




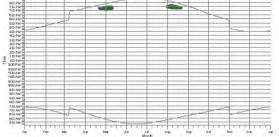
QO: REC-231







QQ: REC-233





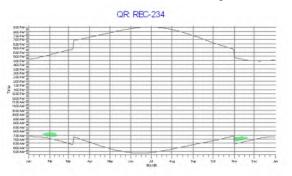
WTGs

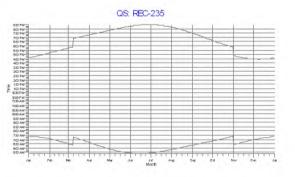
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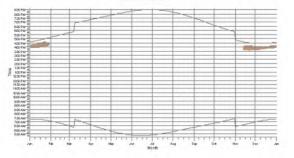
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

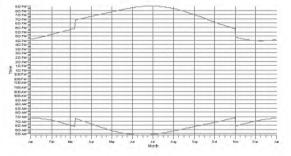


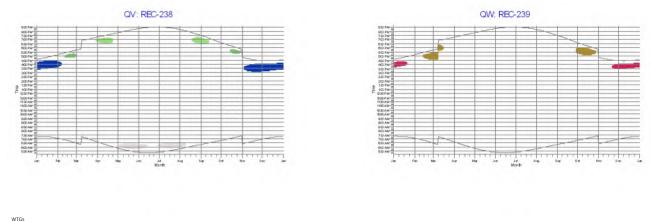


QT: REC-236



QU: REC-237





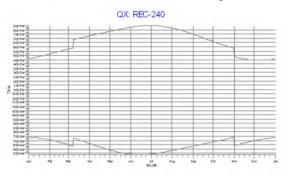
72: K2 76: K6 77: K7 78: K8 86: K18 87: K9 139: K502 144: K206

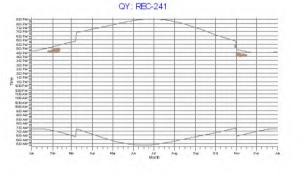
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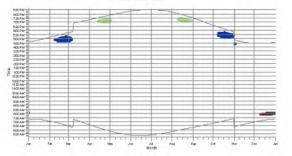
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)





QZ: REC-242

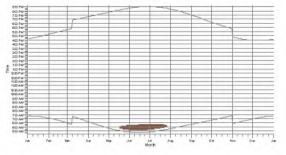


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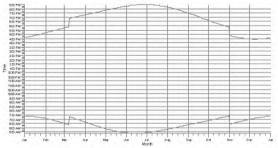
WTGs

76: K6

R: REC-969







82: K13

144: K206

88: K20

Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

800 P

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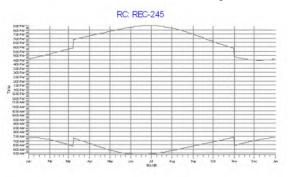
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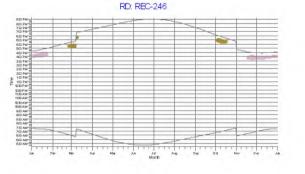
89: K23

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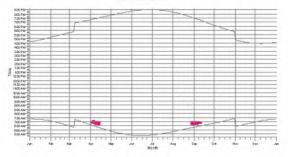
SHADOW - Calendar, graphical

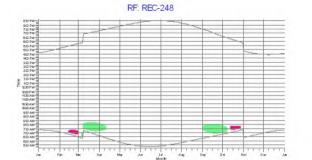
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

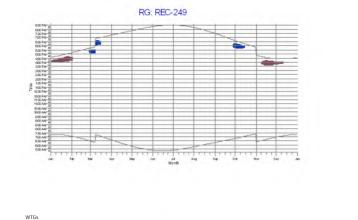


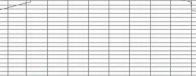


RE REC-247

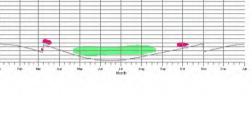








RH: REC-250



80: K11

87: K89

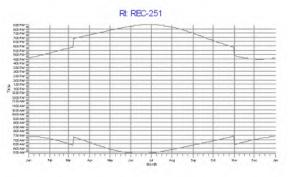
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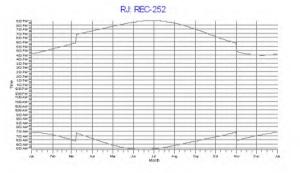
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SHADOW - Calendar, graphical

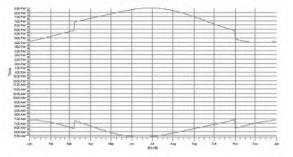




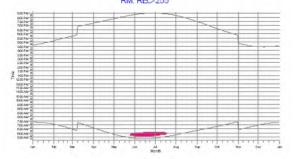


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RK: REC-253

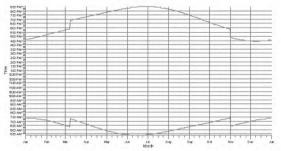


RM: REC-255



RN: REC-256

Ja



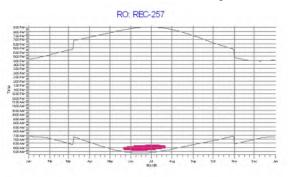
WTGs 89: K23

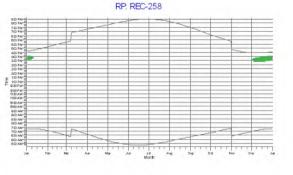
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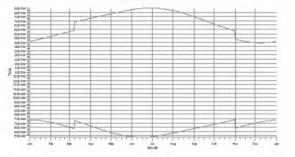
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

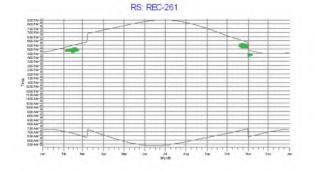




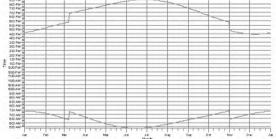
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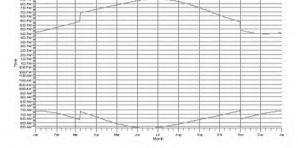




RT: REC-262



WTGs 85: K16 89: K23



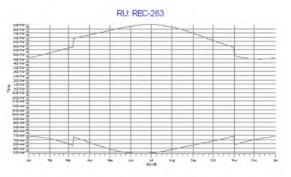
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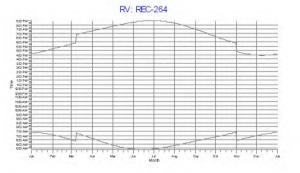
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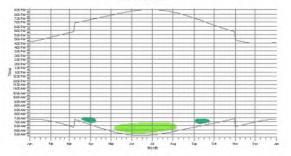
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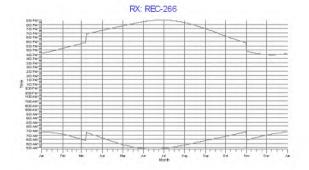


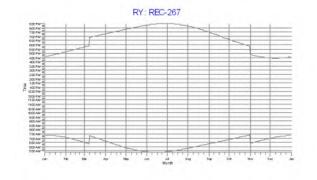




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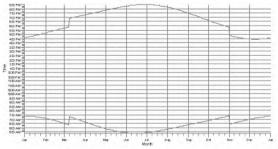






WTGs 92: K90 138: K500

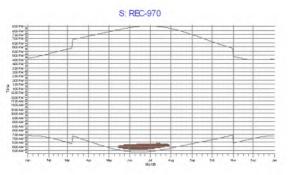


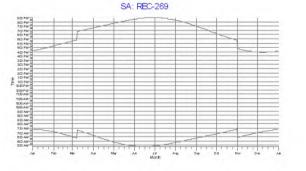


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

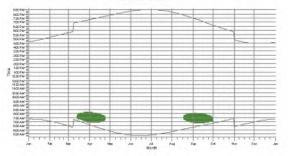
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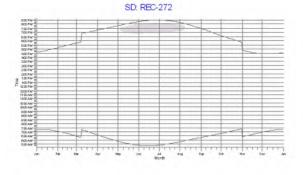






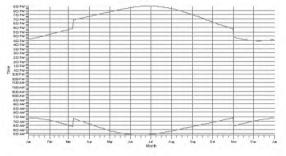
SB: REC-270



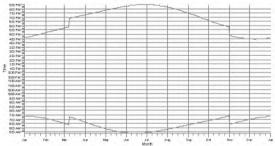


WTGs 82: K13 86: K18 91: K25

SC: REC-271





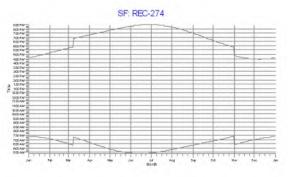


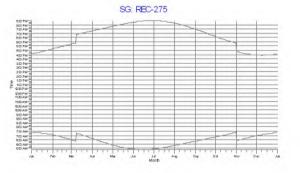


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect. Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

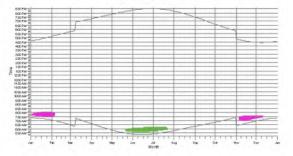
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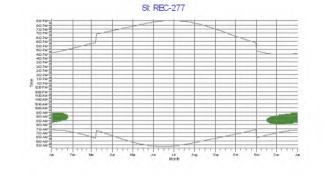


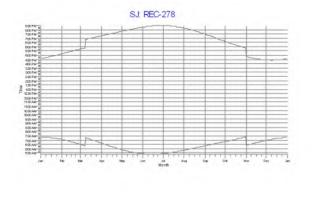




SH: REC-276

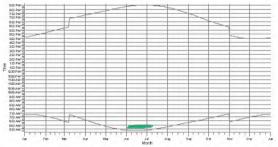












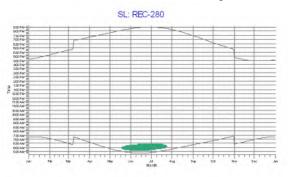


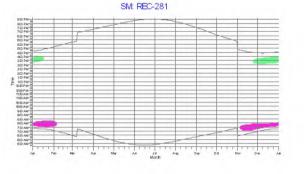
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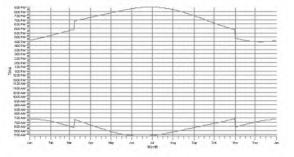
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

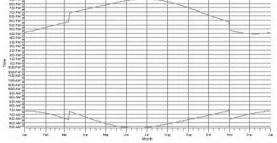


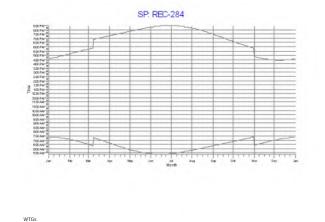








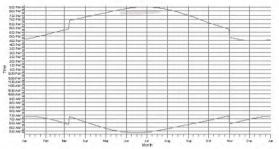




87: K89

86: K18

SQ: REC-285



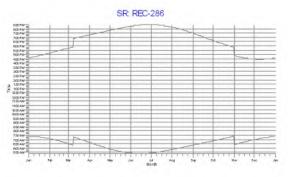
92: K90

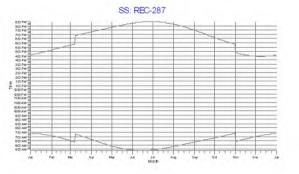
93: K28

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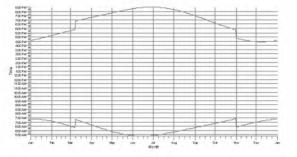
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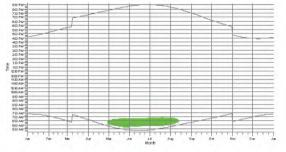




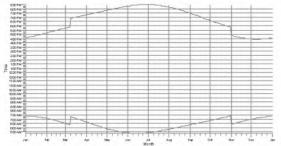
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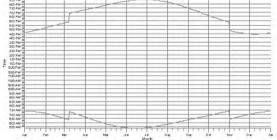
SU: REC-289







SW: REC-291







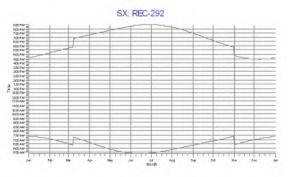
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

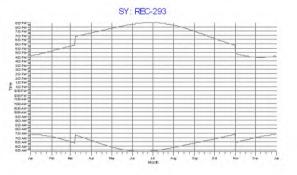
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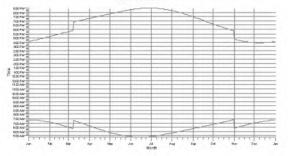
SHADOW - Calendar, graphical



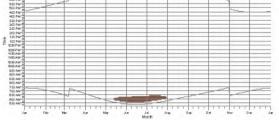




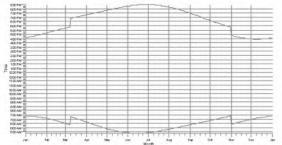
SZ: REC-294



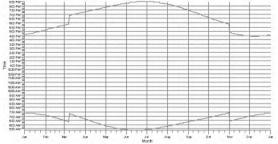
T: REC-971







TB: REC-296



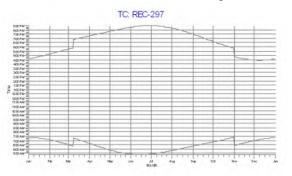
WTGs 82: K13

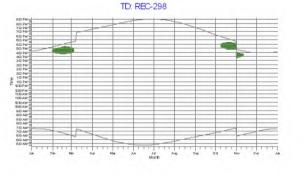
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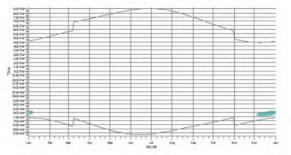
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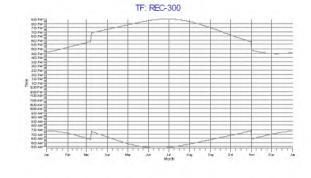
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

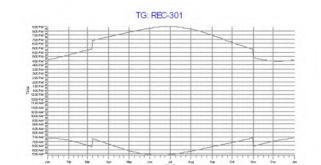




TE: REC-299

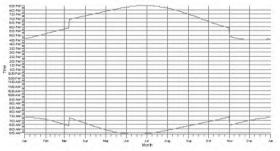






WTGs 91: K25 95: K32

TH: REC-302

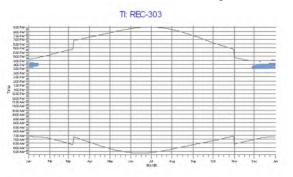


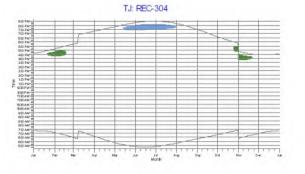
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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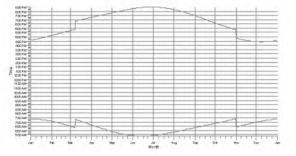
SHADOW - Calendar, graphical

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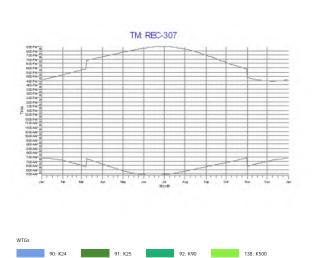




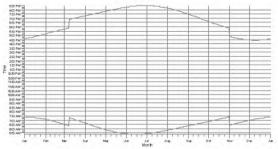
TK: REC-305



TL: REC-306







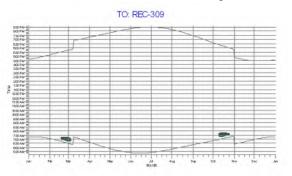


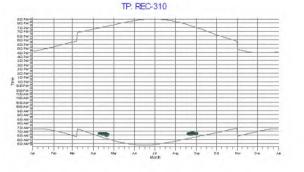
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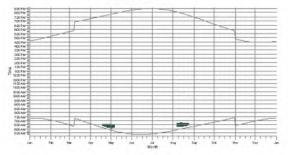
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

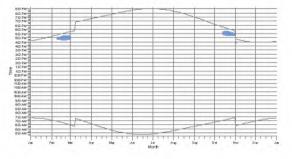




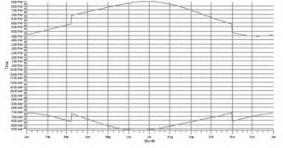
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TR: REC-312

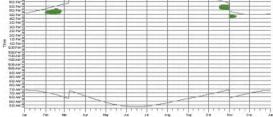








810 P9 7:30 P9 7:07 P8



TT: REC-314

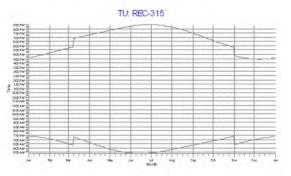
WTGs 90: K24 91: K25 96: K33

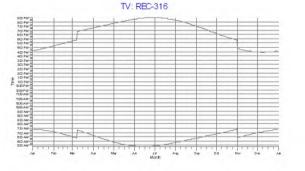


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

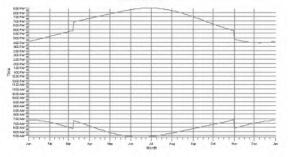
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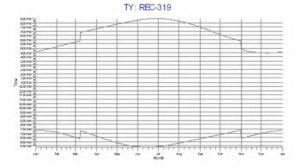




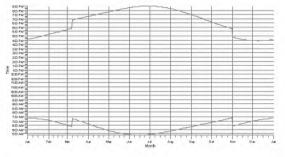


TW: REC-317

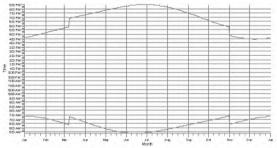












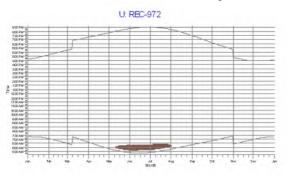


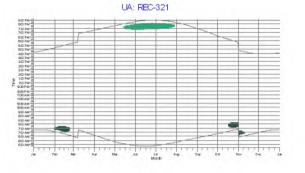
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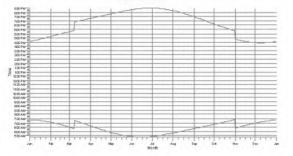
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

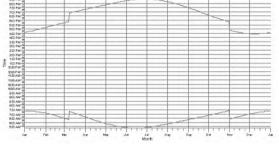




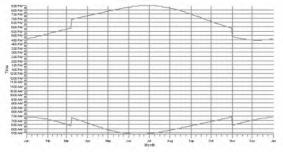
UB: REC-322



UC: REC-323

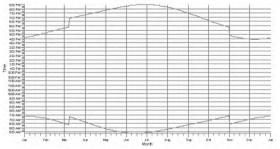






WTGs 82: K13 92: K90 96: K33

UE REC-325

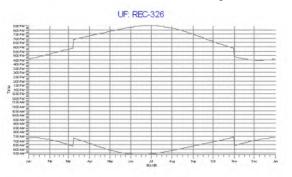


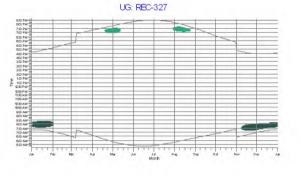
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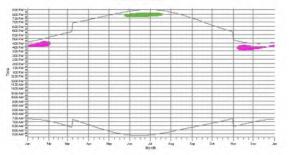
SHADOW - Calendar, graphical

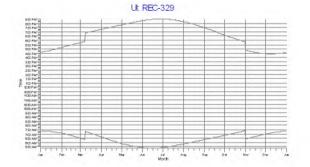
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

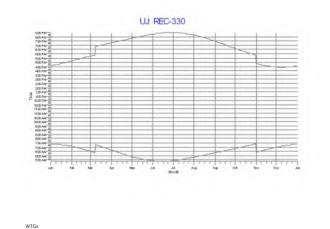




UH: REC-328

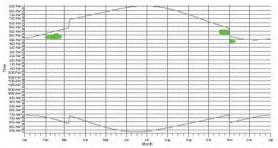






93: K28





94: K29

96: K33

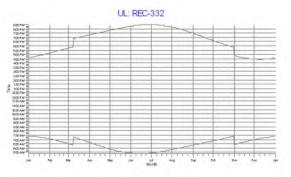


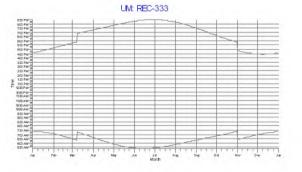
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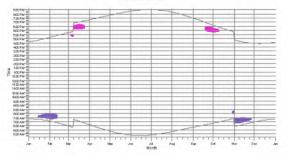
SHADOW - Calendar, graphical



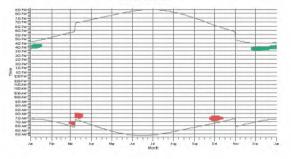


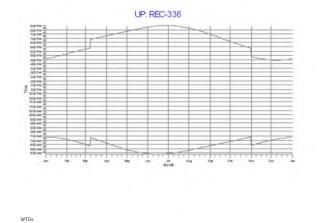


UN: REC-334



UO: REC-335

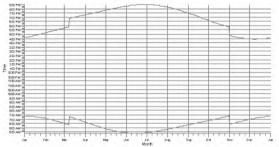




93: K28

K90

UQ: REC-337



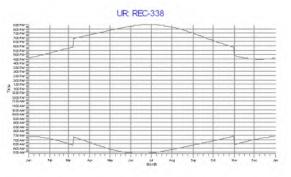
97: K34

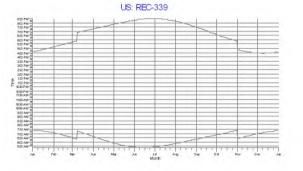
98: K35

Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

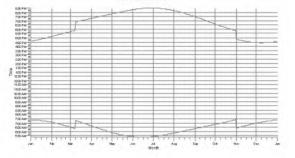
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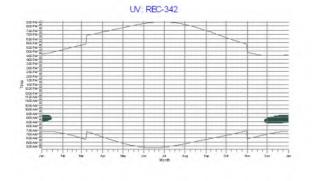






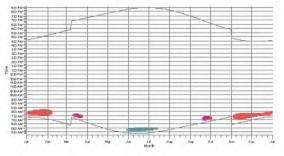
UT: REC-340



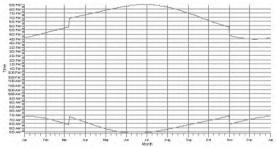




UU: REC-341





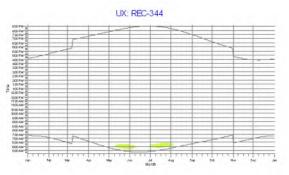


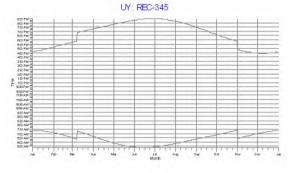


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

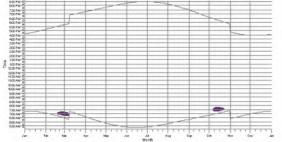
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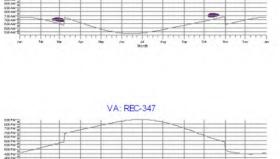


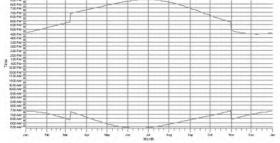




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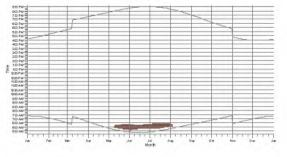




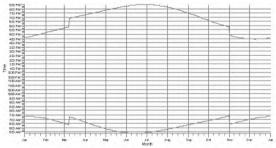


WTGs 82: K13 100: K37 102: K39

V: REC-973







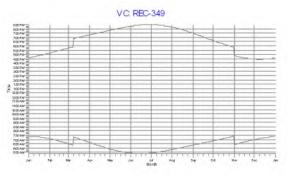


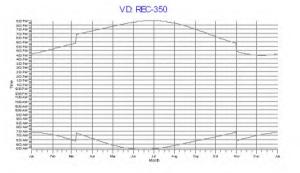
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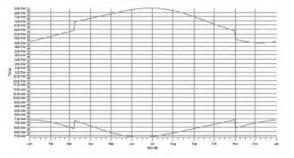
SHADOW - Calendar, graphical



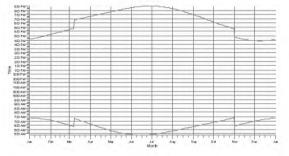




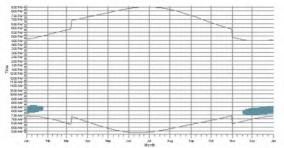
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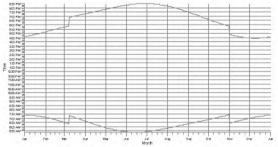
VF: REC-352











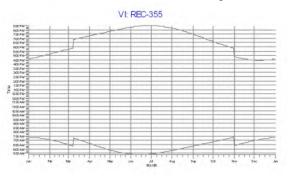
WTGs 99: K36

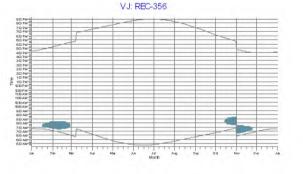
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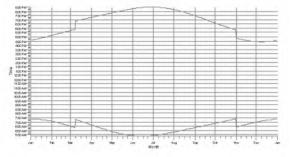
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

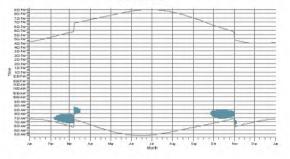


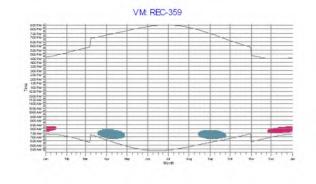


VK: REC-357

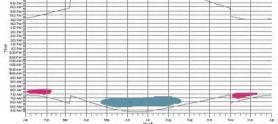


VL: REC-358





VN: REC-360



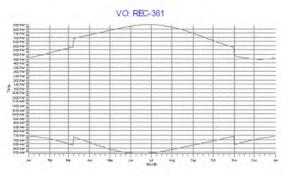


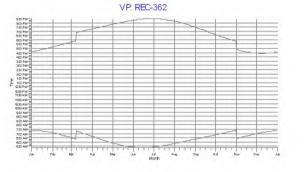
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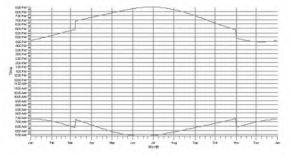
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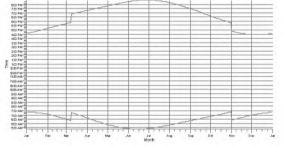




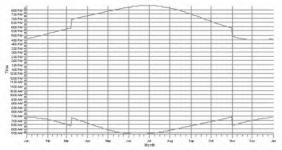
VQ: REC-363



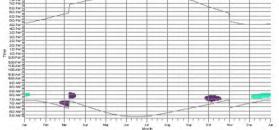
VR REC-364







VT: REC-366

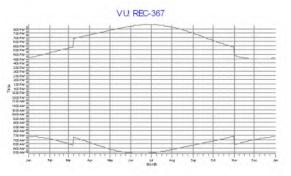


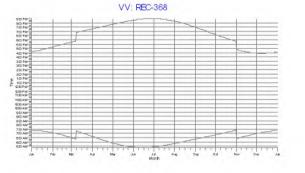


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

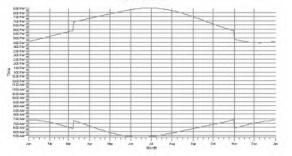
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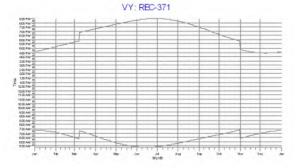




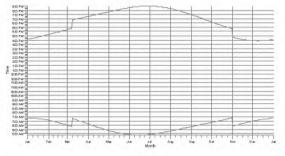


VW: REC-369

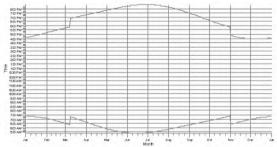




VX: REC-370







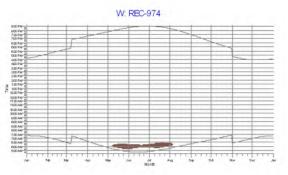


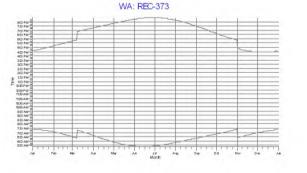
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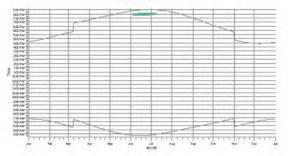
SHADOW - Calendar, graphical



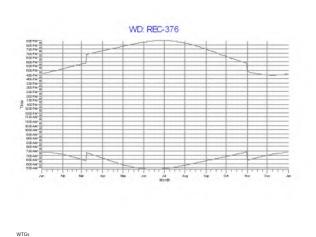




WB: REC-374

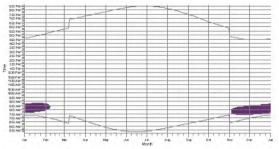


WC: REC-375







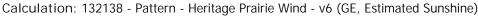


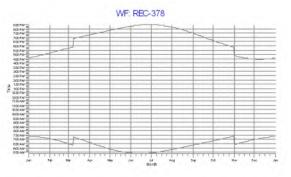


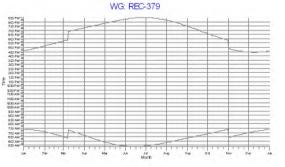
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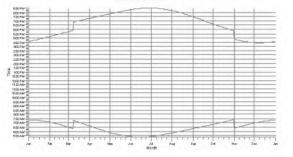
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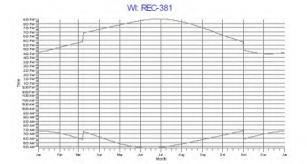


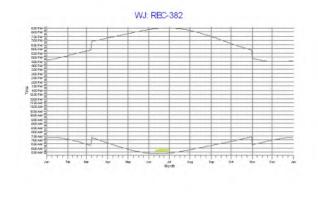




WH: REC-380





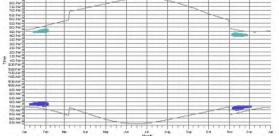


105: K42

WTGs

95: K32

WK: REC-383

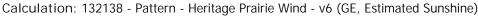


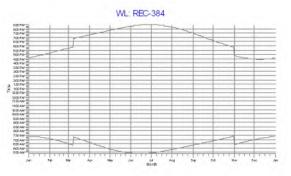
106: K43

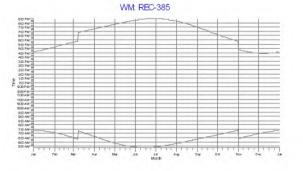
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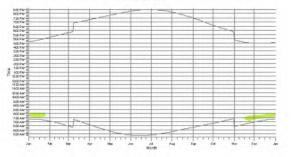
SHADOW - Calendar, graphical



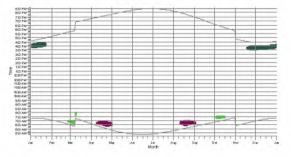


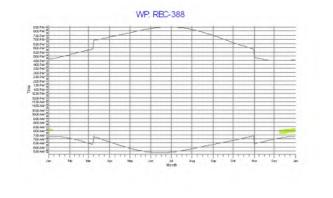


WN: REC-386



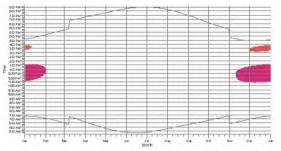
WO: REC-387







WQ: REC-389

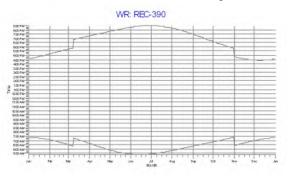


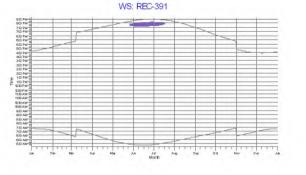
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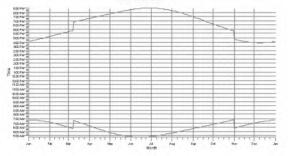
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

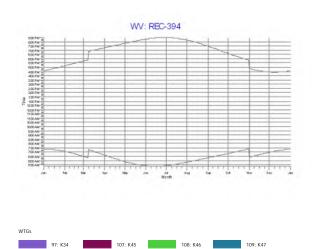




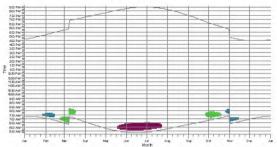
WT: REC-392



WU: REC-393







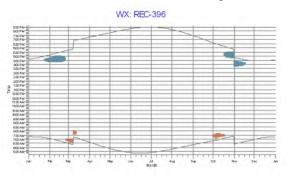


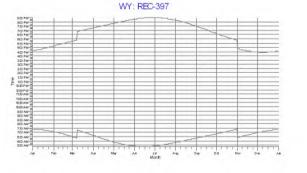
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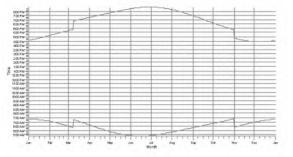
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

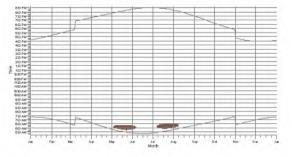


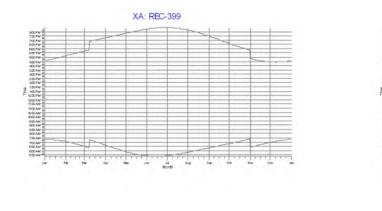






X: REC-975





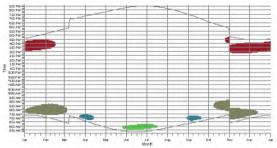
103: K40

K36

WTGs

82: K13

XB: REC-400



142: K204

112: K50

108: K46

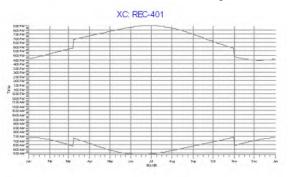
109: K47

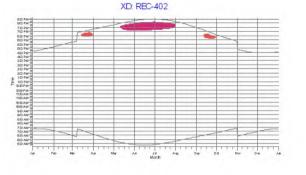
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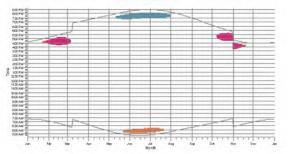
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

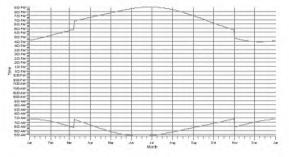


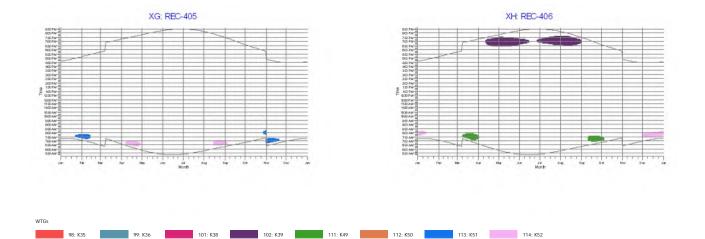


XE REC-403



XF: REC-404





K36

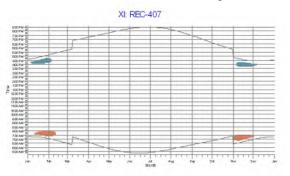


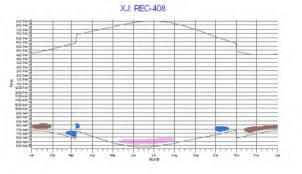
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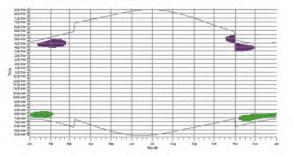
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

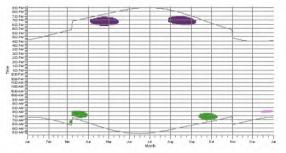


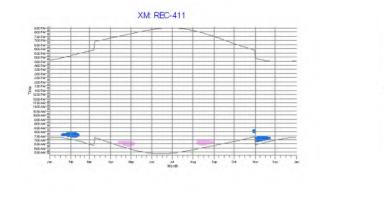


XK: REC-409

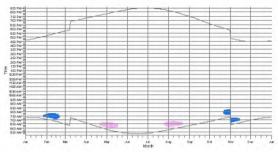


XL: REC-410











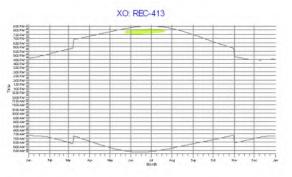


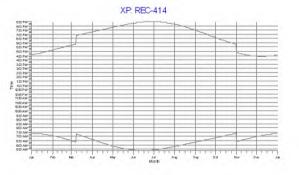
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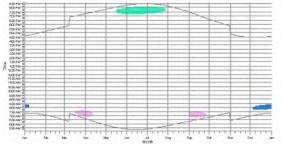
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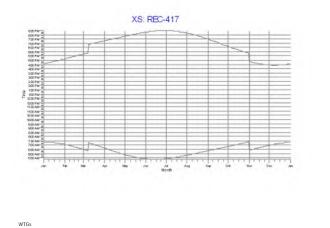






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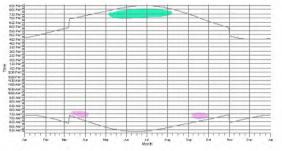




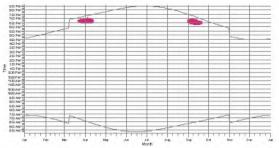
101: K38

100: K37

XR: REC-416







104: K92

113: K51 114: K52

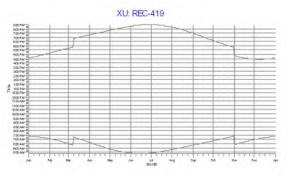


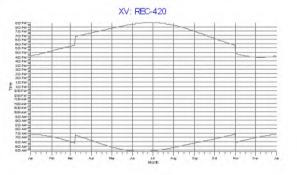
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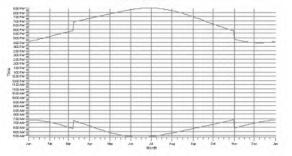
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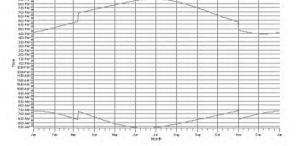






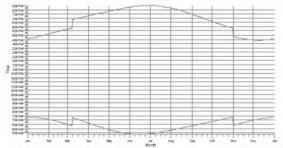
XW: REC-421



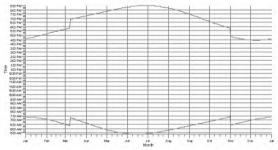


XX: REC-422









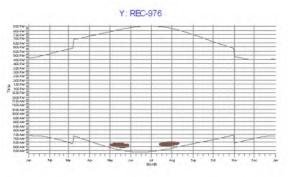


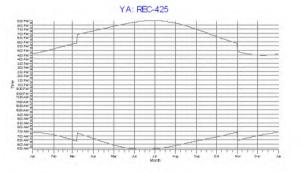
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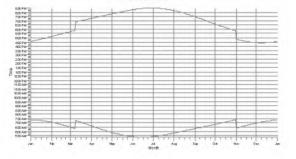
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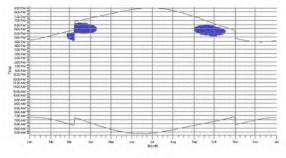




Y B: REC-426

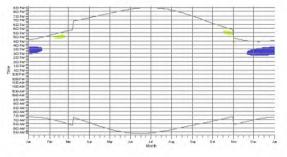


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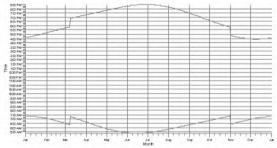




YC: REC-427

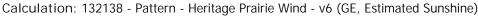


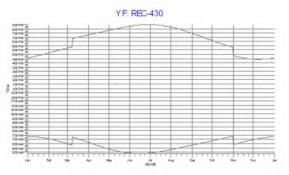


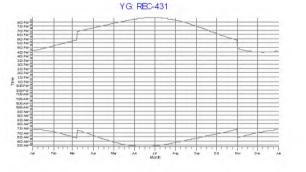


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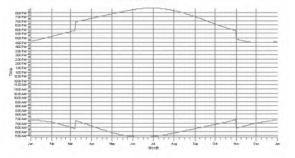
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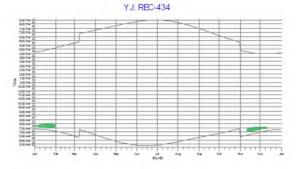




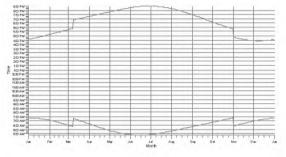
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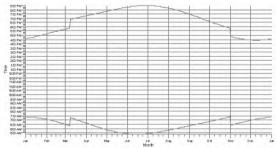
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YI: REC-433



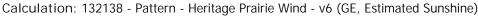


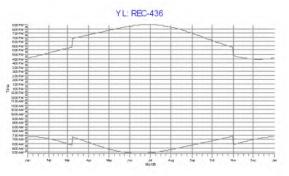




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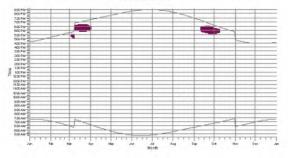
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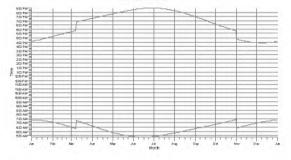




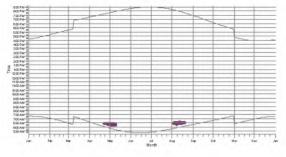
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YO: REC-439

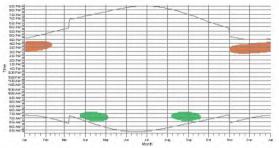








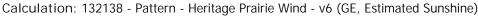


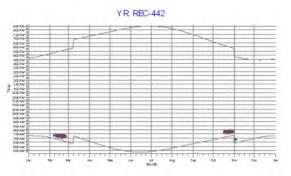


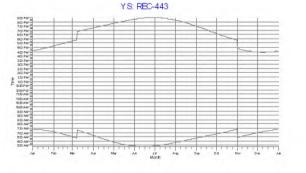


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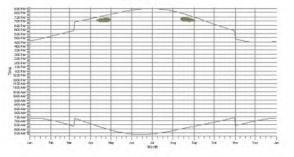
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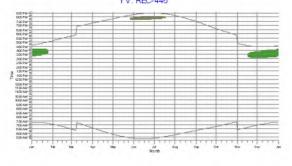




YT: REC-444

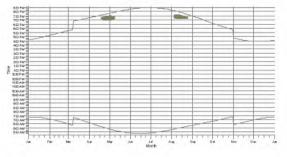




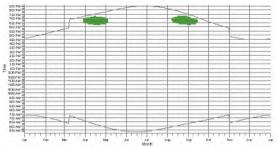




YU: REC-445



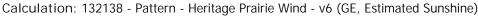


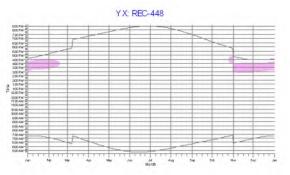


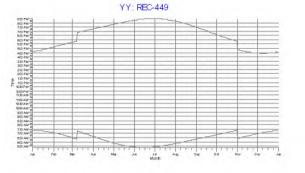


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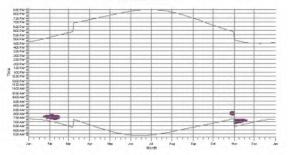
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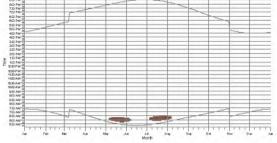




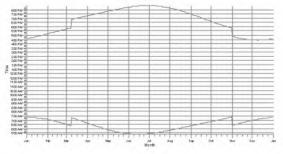
YZ: REC-450





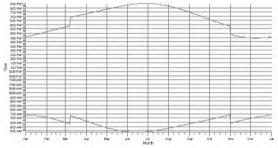








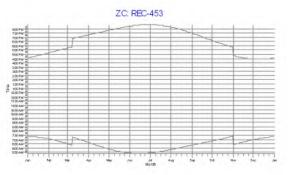




Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

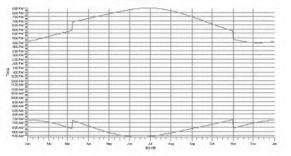
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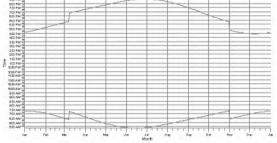




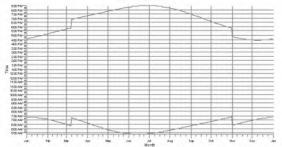
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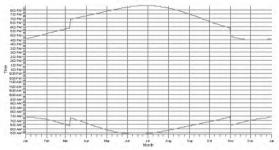
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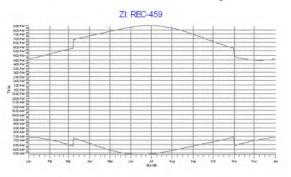


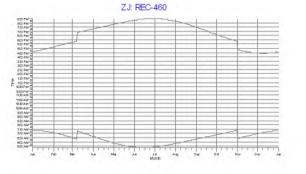
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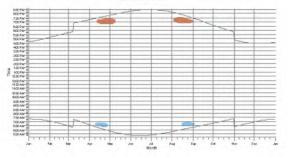
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

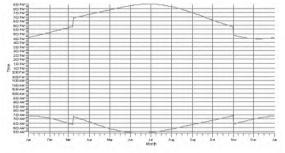




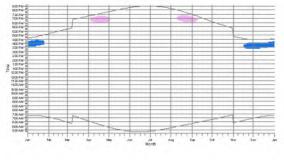
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ZL: REC-462

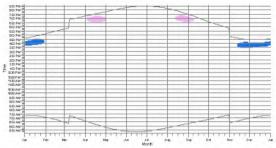






WTGs 112: K50 113: K51 114: K52 117: K56

ZN: REC-464



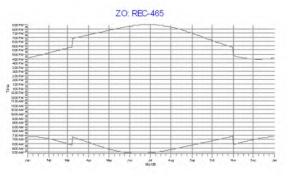


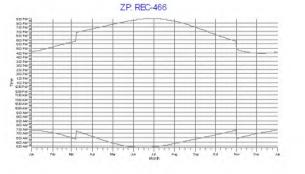
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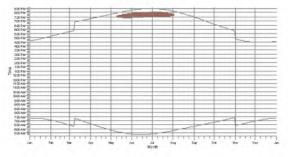
SHADOW - Calendar, graphical



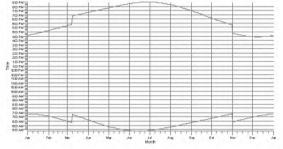




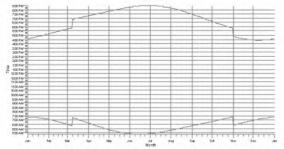
ZQ: REC-467



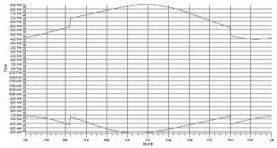
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WTGs 110: K48

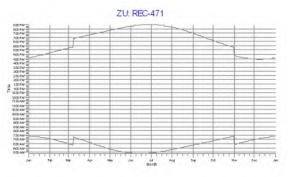


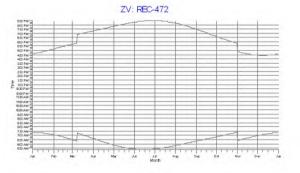
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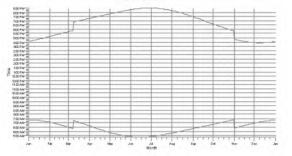
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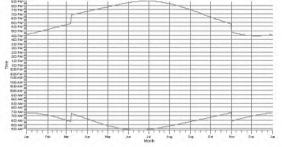




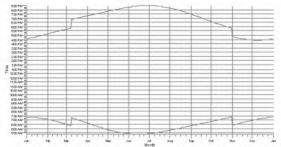
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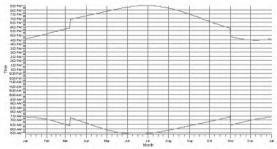
ZX: REC-474









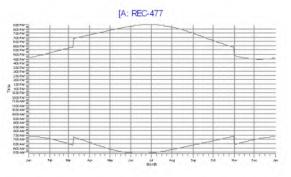


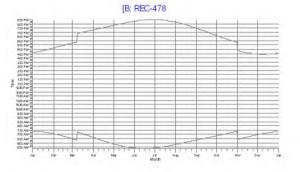
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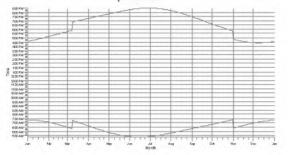
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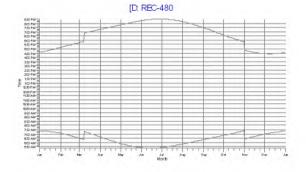




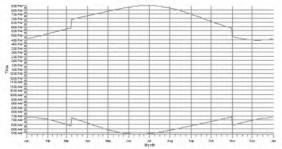


[C: REC-479





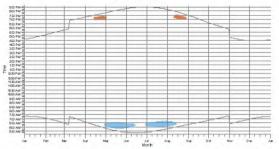




117: K56



[F: REC-482

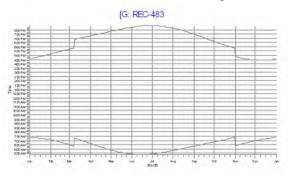


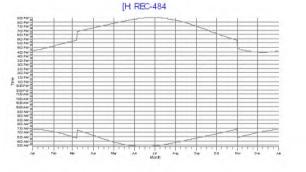
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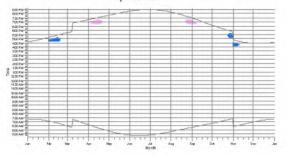
SHADOW - Calendar, graphical

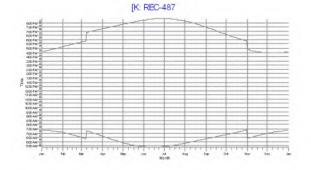
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)





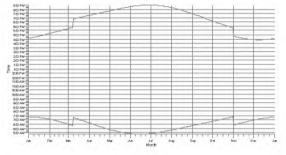
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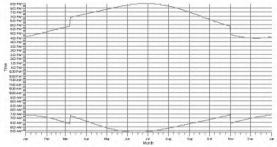


WTGs 113: K51 114: K52

[J: REC-486





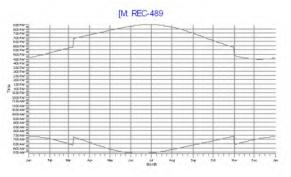


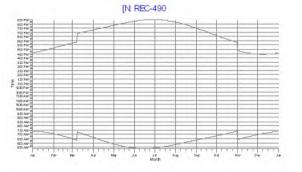


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

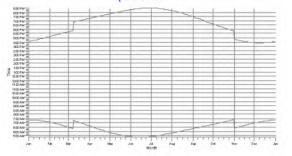
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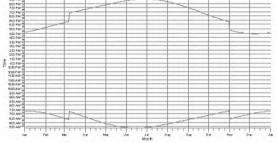




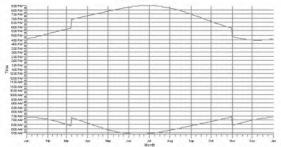
[O: REC-491



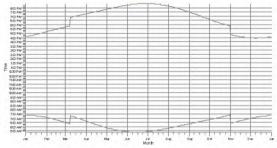
[P. REC-492











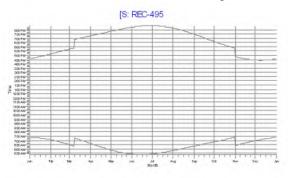


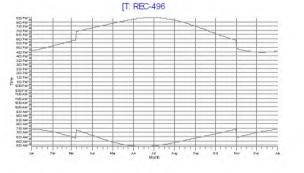
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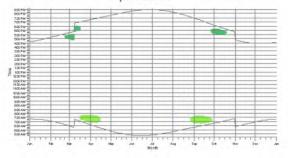
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

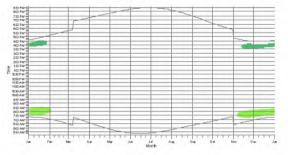


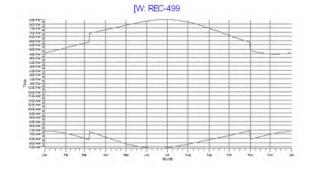


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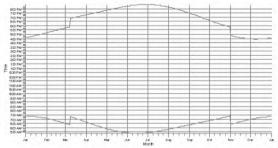
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WTGs 118: K57 140: K94

[X: REC-500

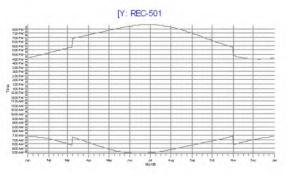


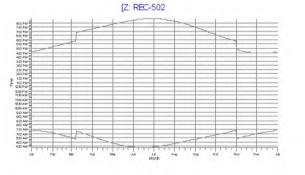


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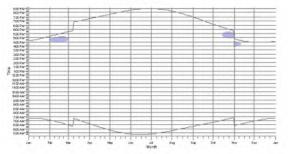
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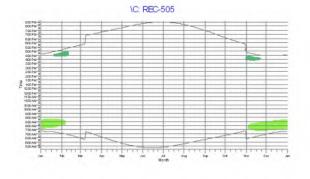






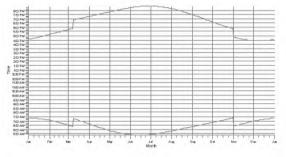
VA: REC-503



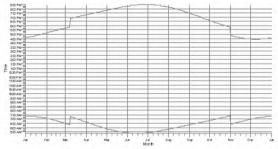




\B: REC-504





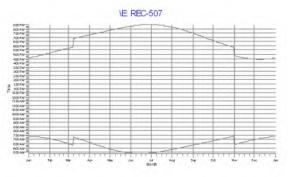


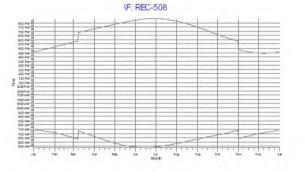


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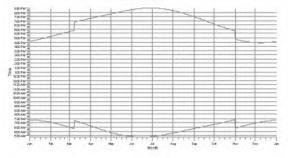
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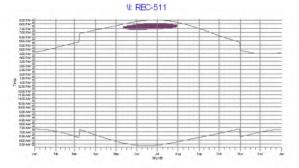




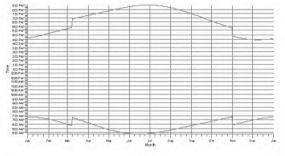


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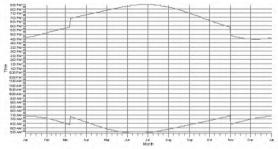




\H REC-510





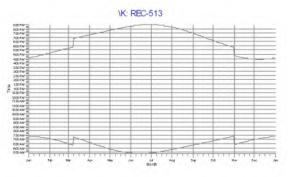


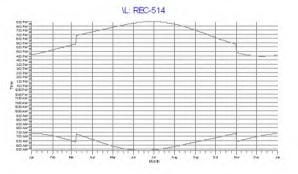


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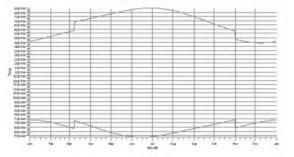
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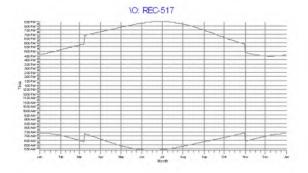




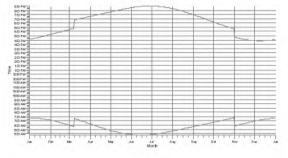


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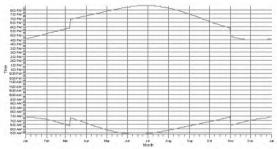




IN: REC-516







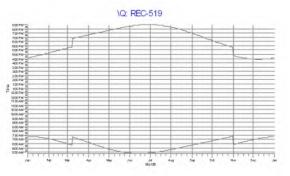


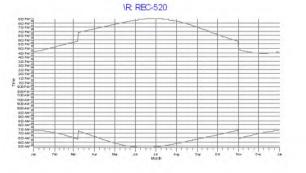
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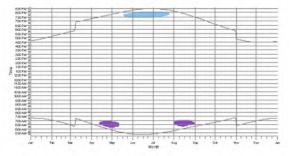
SHADOW - Calendar, graphical

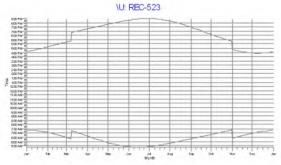






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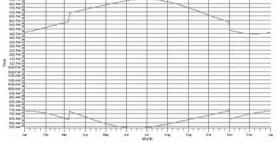
WTGs

117: K56

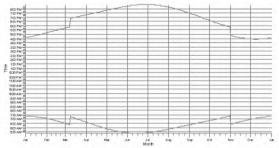
120: K60



\T: REC-522



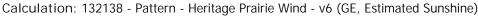
W: REC-524

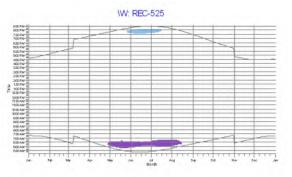


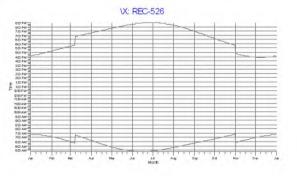


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

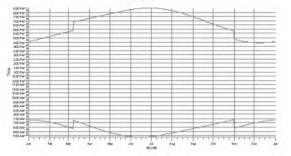
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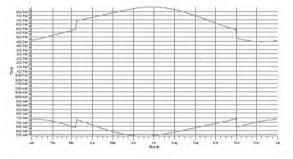




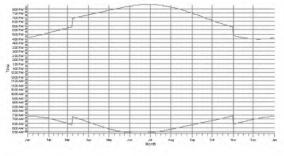
Y: REC-527



VZ: REC-528

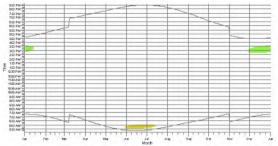












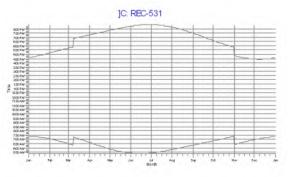


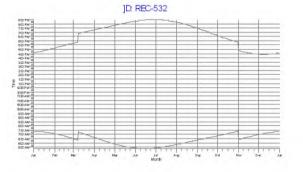
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect. Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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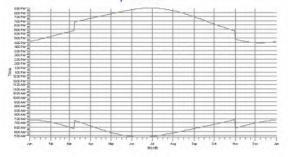
SHADOW - Calendar, graphical



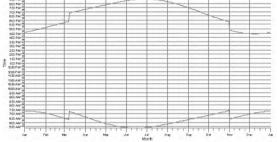




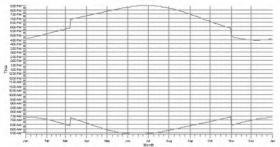
JE: REC-533



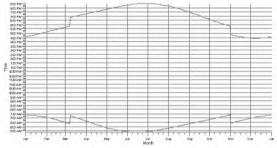
JF: REC-534











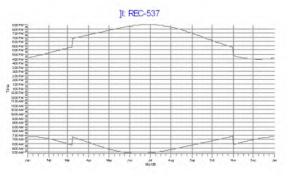


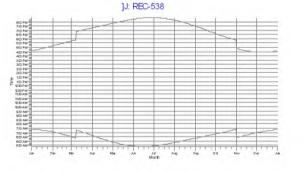
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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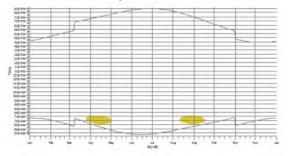
SHADOW - Calendar, graphical

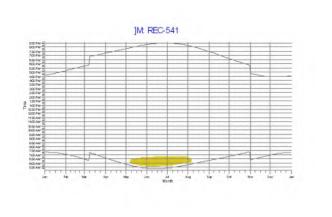






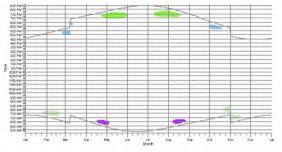
]K: REC-539



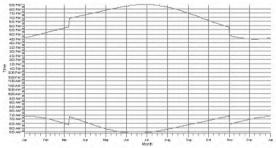


WTGs 117: K56 118: K57 121: K61 122: K62 123: K63

]L: REC-540



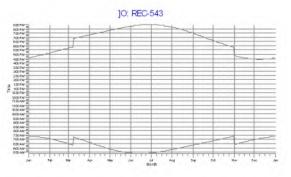


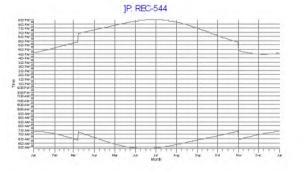


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

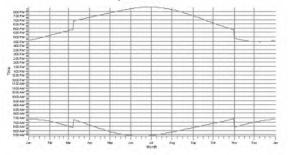
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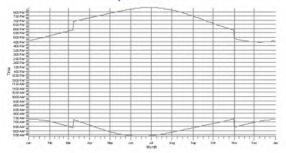




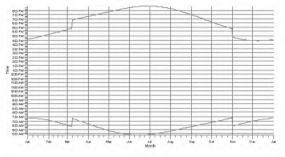
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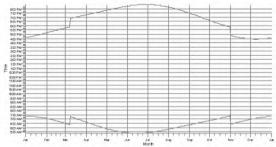
]S: REC-547



]R: REC-546





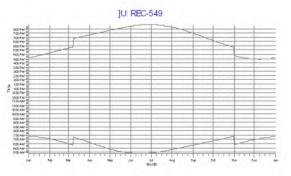


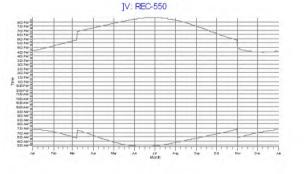


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

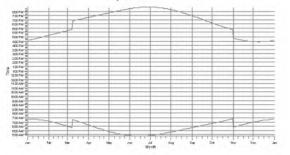
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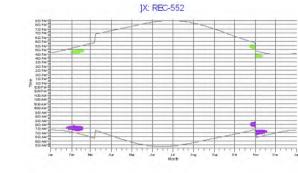




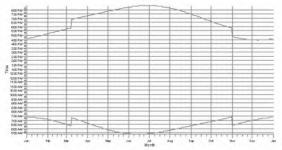






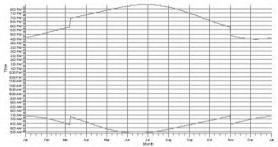












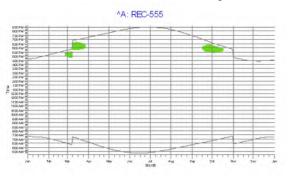


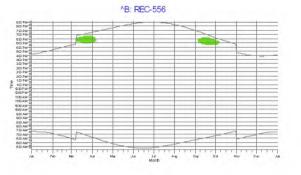
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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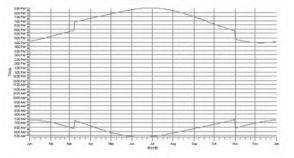
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

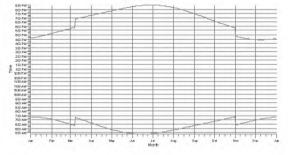




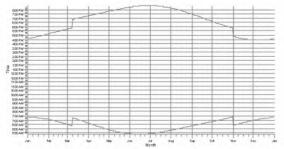
^C: REC-557



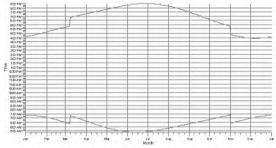
^D: REC-558











WTGs 119: K59

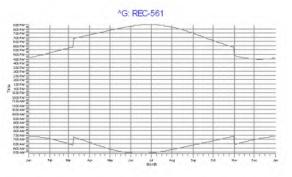


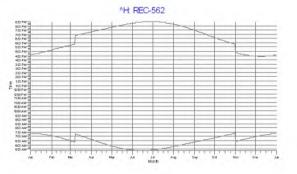
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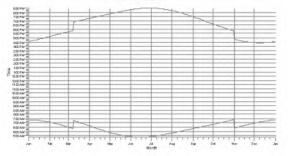
SHADOW - Calendar, graphical



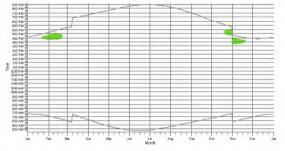




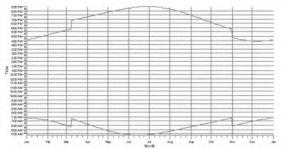
^I: REC-563



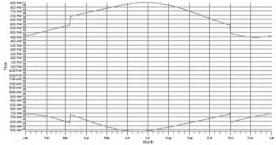
^J: REC-564











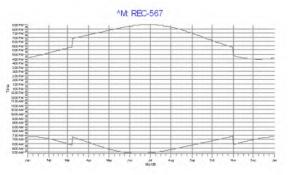
WTGs 119: K59

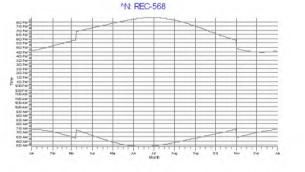


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

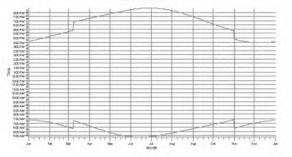
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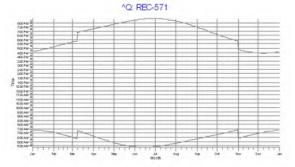




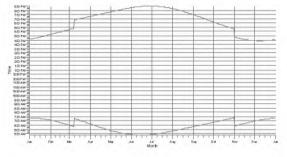
^O: REC-569



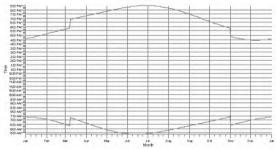
Tok ober



^P: REC-570







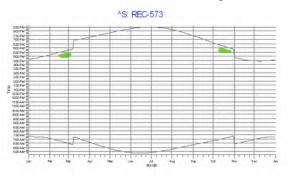


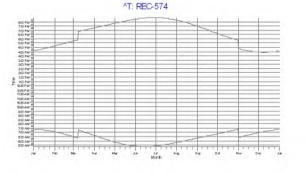
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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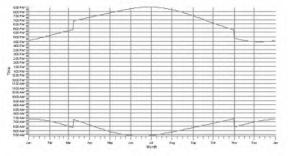
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)



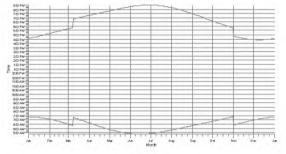




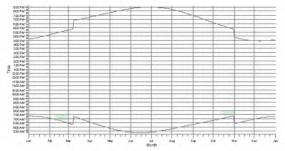




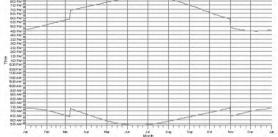








^X: REC-578





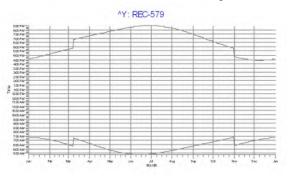


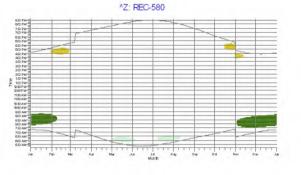
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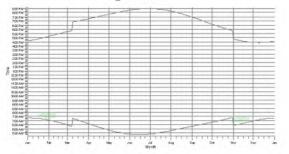
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

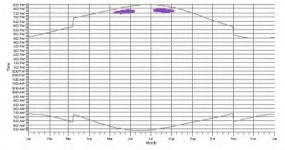


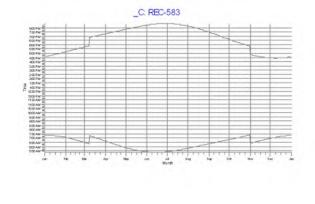


A: REC-581



_B: REC-582



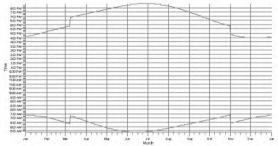


121: K61

WTGs

120: K60

_D: REC-584



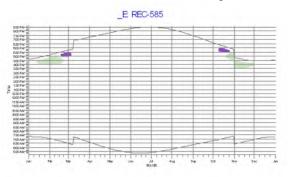
124: K64 125: K66

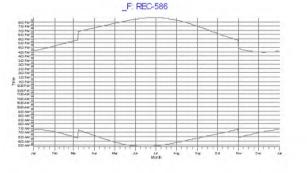
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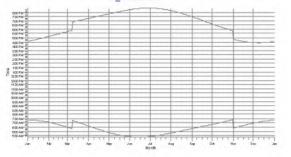
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

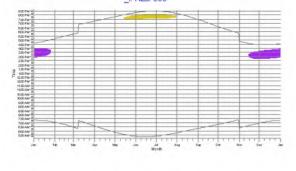




_G: REC-587

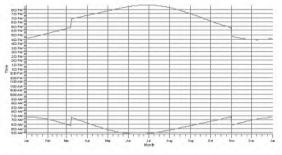


_I: REC-589

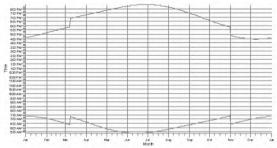




_H: REC-588







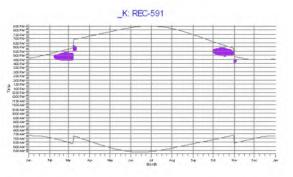


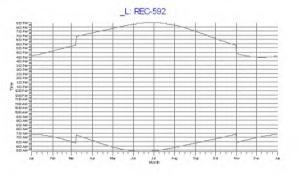
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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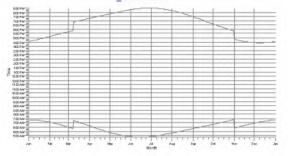
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)



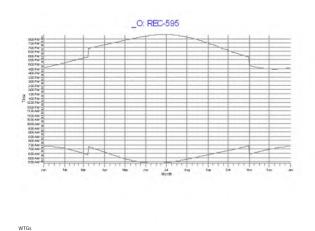


M: REC-593



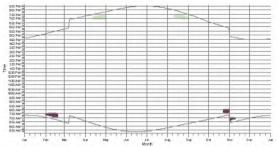
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_N: REC-594



122: K62 123: K63 126: K68

_P: REC-596

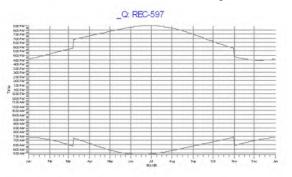


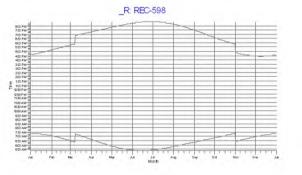
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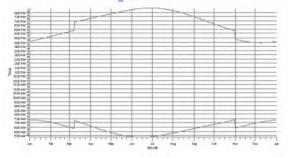
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

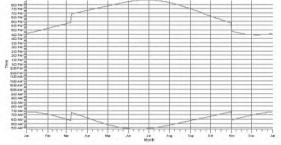




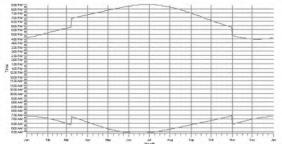
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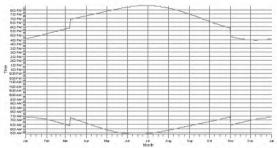
_T: REC-600







_V: REC-602

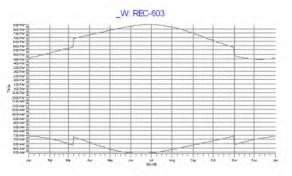


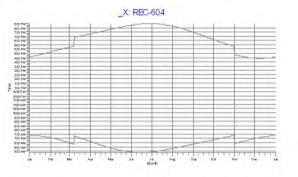
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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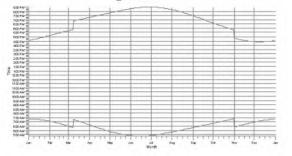
SHADOW - Calendar, graphical

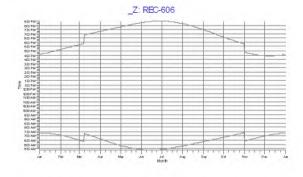
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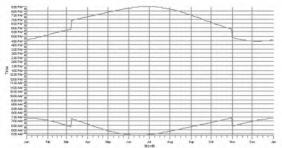




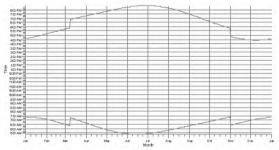












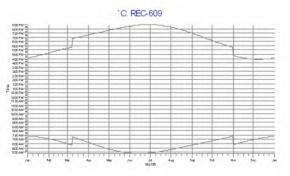


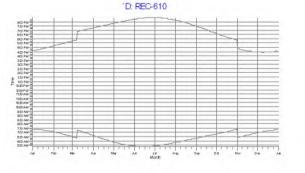
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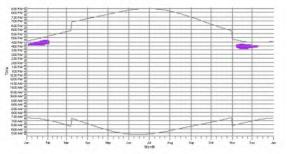
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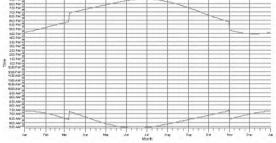




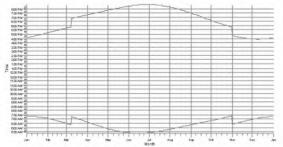
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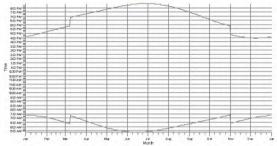












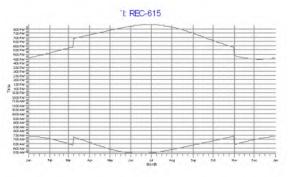
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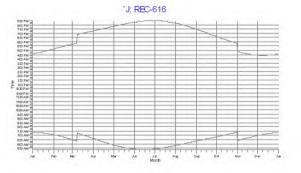
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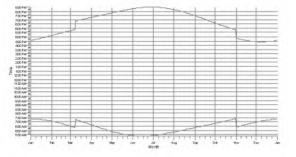
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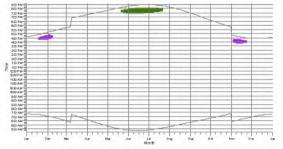




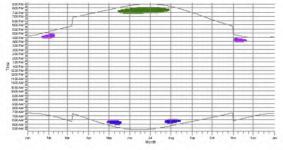
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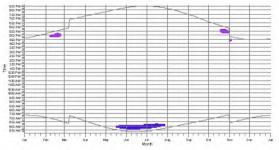










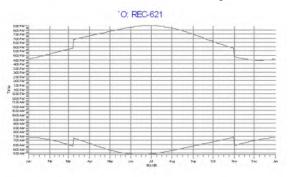


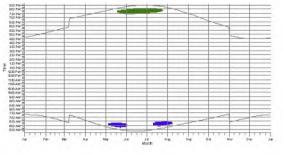
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SHADOW - Calendar, graphical

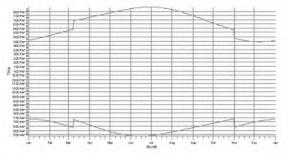
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

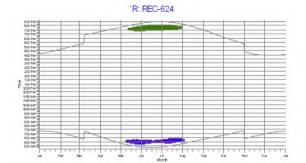




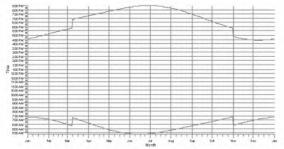
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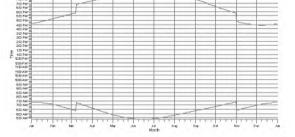
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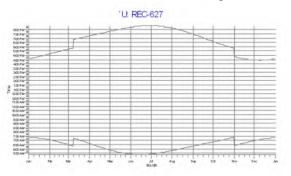
WTGs 124: K64 127: K99

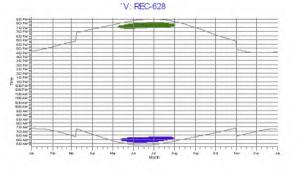


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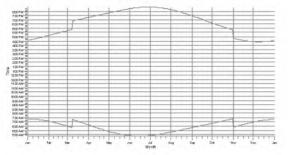
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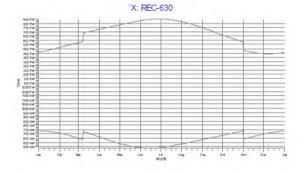
SHADOW - Calendar, graphical



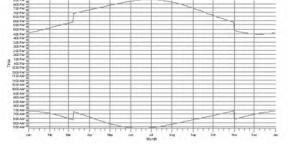






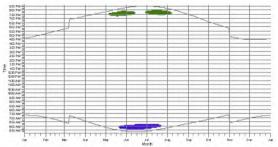










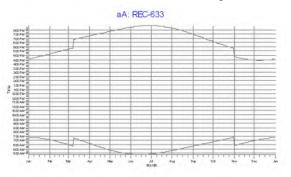


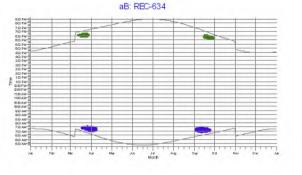


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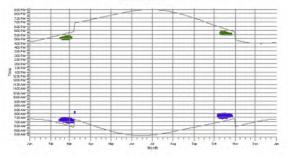
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SHADOW - Calendar, graphical

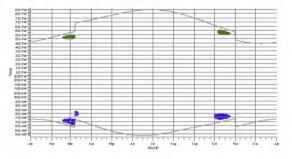


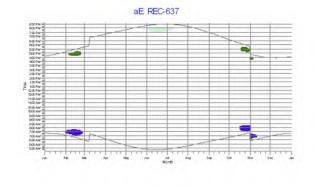


aC: REC-635



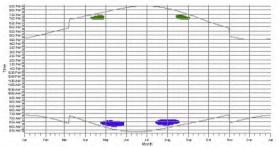
aD: REC-636





WTGs 124: K64 125: K66 127: K99

aF: REC-638



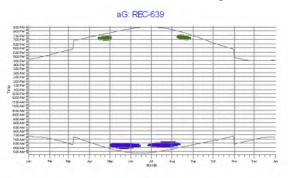


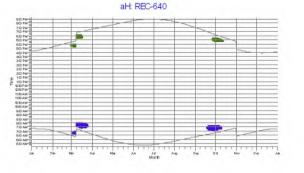
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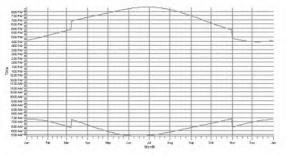
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

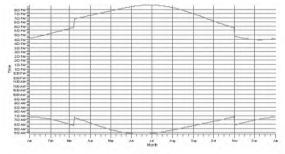




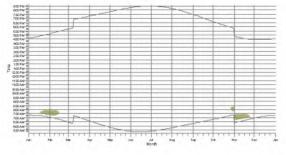






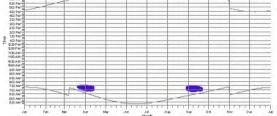








aL: REC-644



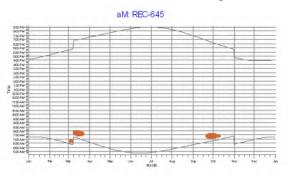
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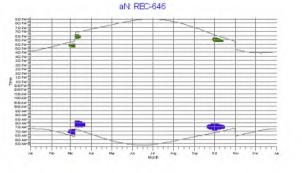


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

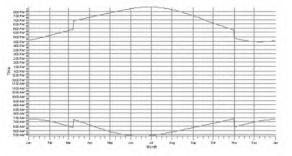
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SHADOW - Calendar, graphical

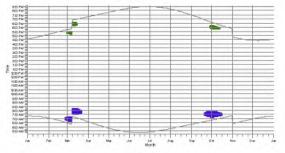




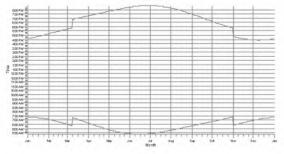




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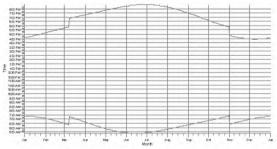














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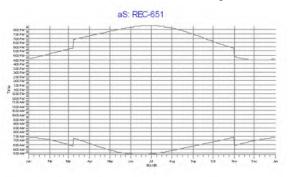
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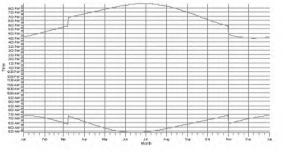
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SHADOW - Calendar, graphical

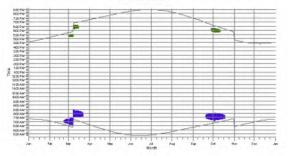
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

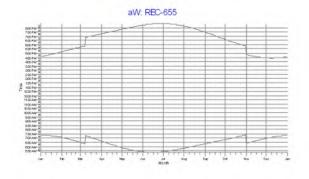




aT: REC-652

aU: REC-653



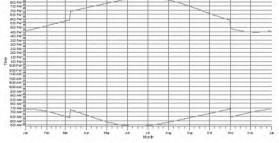


127: K99

WTGs 124: K64

aX: REC-656

Ju





aV: REC-654





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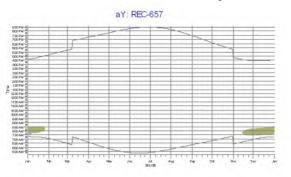
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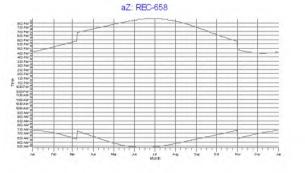
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SHADOW - Calendar, graphical

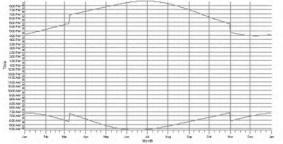
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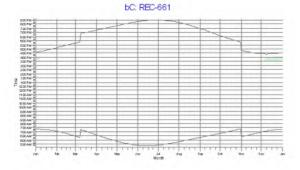


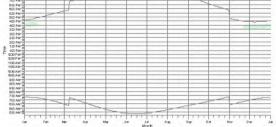


bB: REC-660

bA: REC-659







bD: REC-662

Jul



WTGs





windPRO

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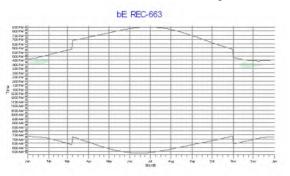
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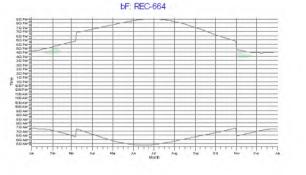
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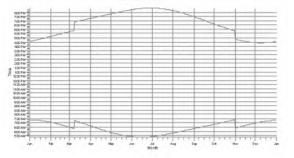
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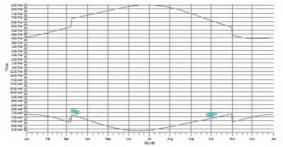
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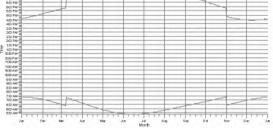
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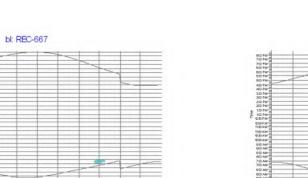
bJ: REC-668

Ja



WTGs 125: K66 145: K200

bH: REC-666



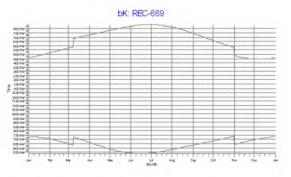


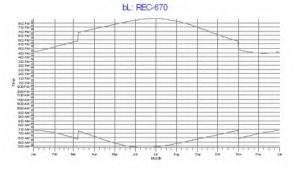
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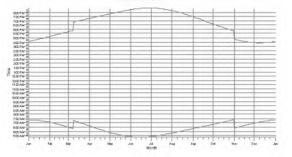
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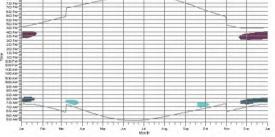




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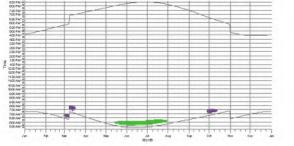


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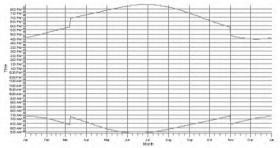


bO: REC-673



WTGs 126: K68 130: K73 131: K74 143: K205 145: K200

bP: REC-674

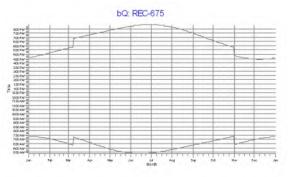


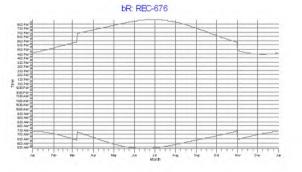


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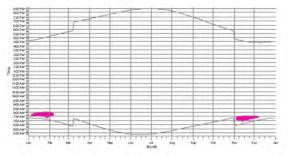
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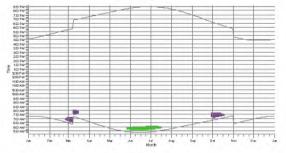




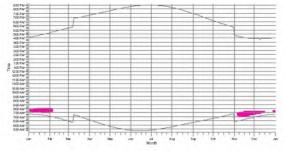
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bT: REC-678

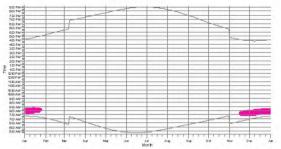






WTGs 130: K73 131: K74 132: K75

bV: REC-680



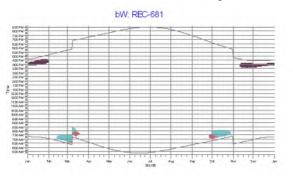


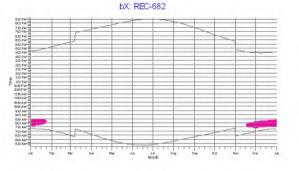
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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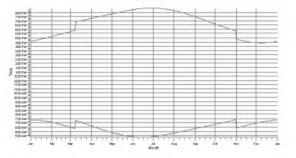
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

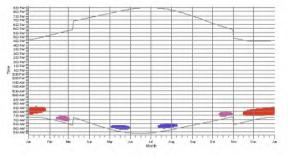


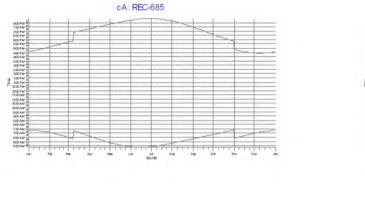


bY: REC-683

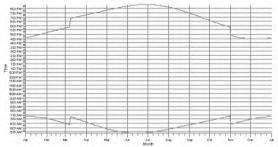


bZ: REC-684





cB: REC-686



126: K68 132: K75 133: K77 134: K78 136: K101 141: K202 145: K200

WTGs

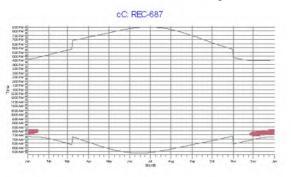


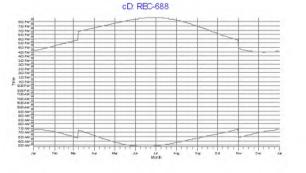
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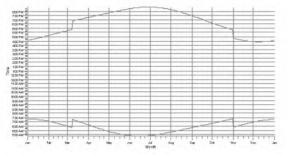
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

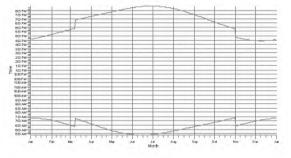


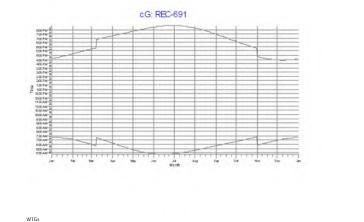






cF: REC-690





133: K77

135: K79

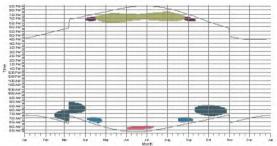
136: K101

143: K205

126: K68

129: K71

cH: REC-692

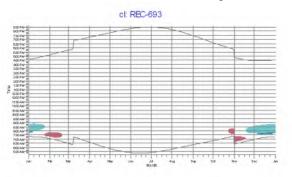


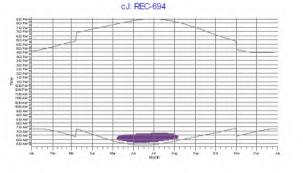
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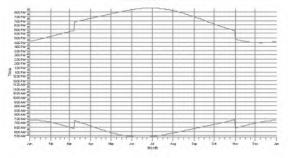
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

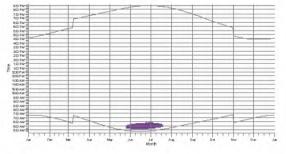




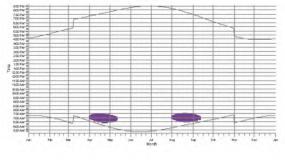
cK: REC-695



cL: REC-696

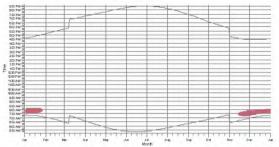






WTGs 130: K73 133: K77 135: K79 145: K200



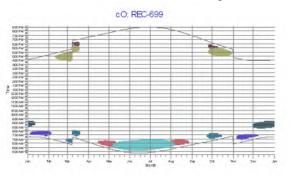


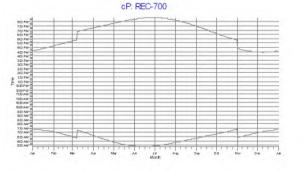
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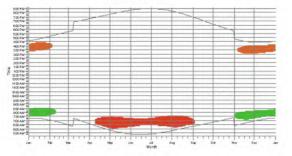
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

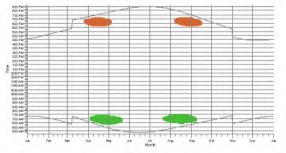


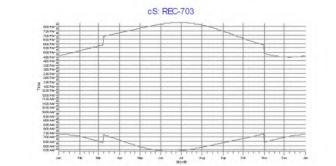


cQ: REC-701



cR: REC-702



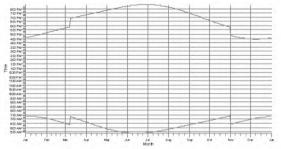


128: K70

WTGs

126: K68

cT: REC-704



136: K101

129: K71

131: K74

133: K77

134: K78

135: K79

141: K202

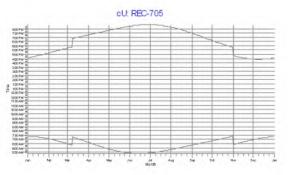
143: K205

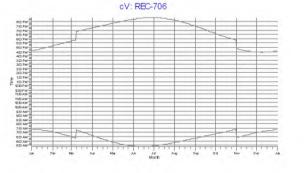
145: K200

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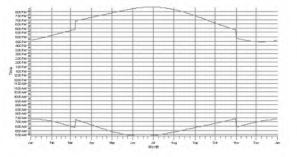
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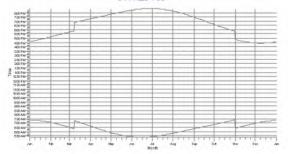




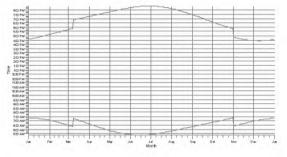
cW: REC-707



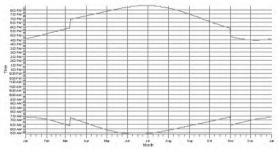
cY: REC-709



cX: REC-708







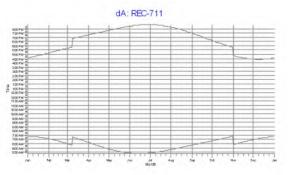


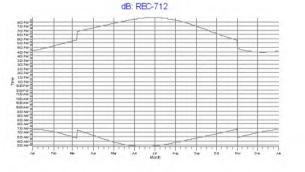
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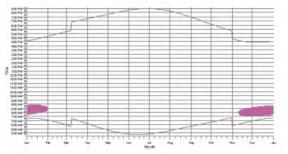
SHADOW - Calendar, graphical



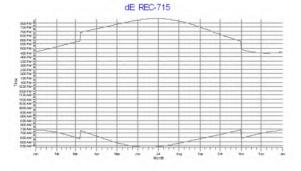




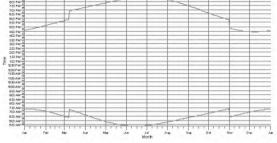
dC: REC-713



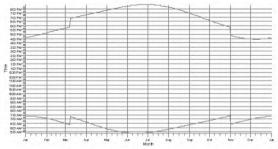




dD: REC-714







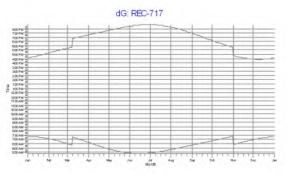
WTGs 134: K78

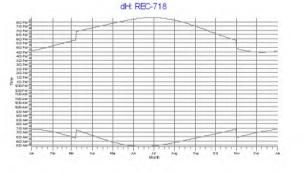


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

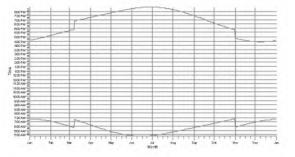
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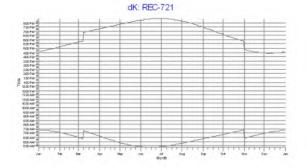




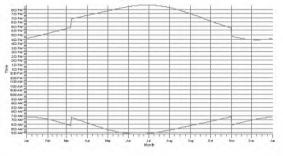


dl: REC-719

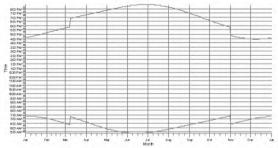










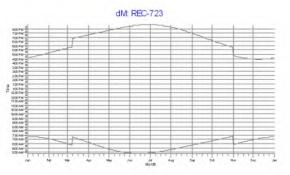


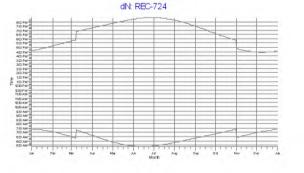


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

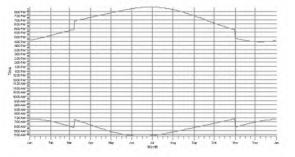
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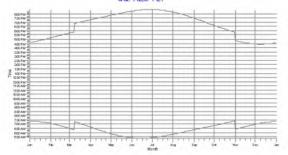




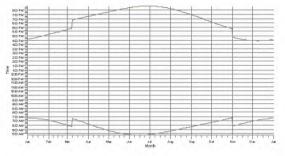
dO: REC-725



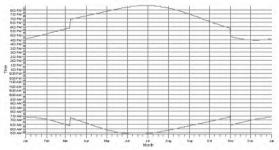
dQ: REC-727



dP: REC-726







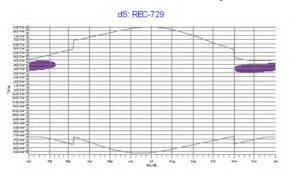


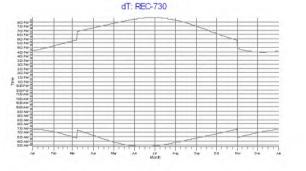
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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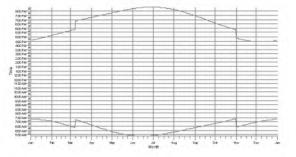
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

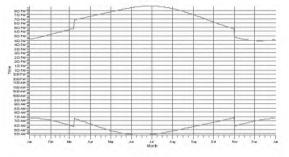




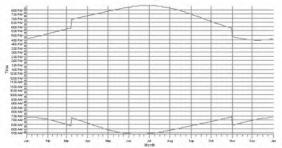
dU: REC-731



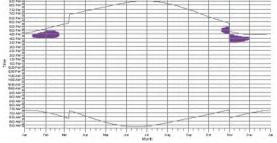
dV: REC-732











WTGs 130: K73

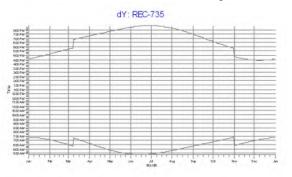


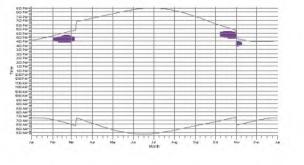
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SHADOW - Calendar, graphical

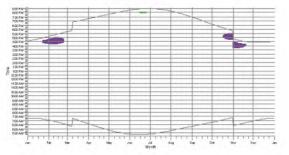
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)



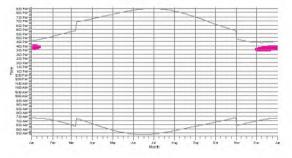


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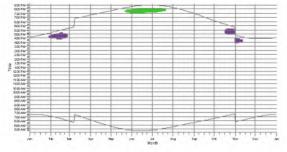
eA: REC-737



eB: REC-738

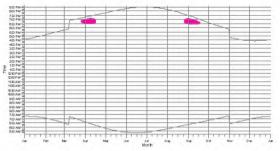






WTGs 130: K73 131: K74 132: K75

eD: REC-740

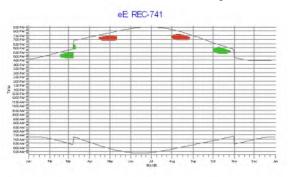


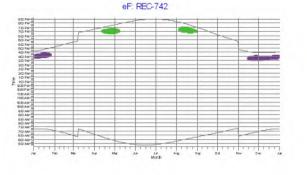
windPRO

Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

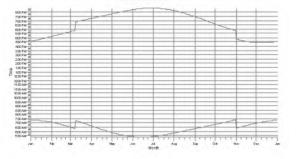
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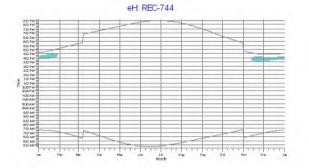
SHADOW - Calendar, graphical

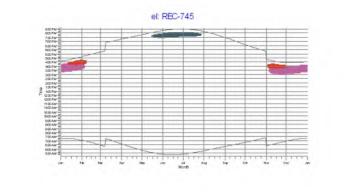


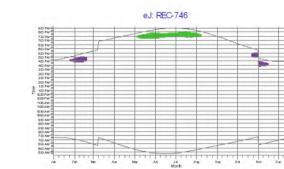


eG: REC-743







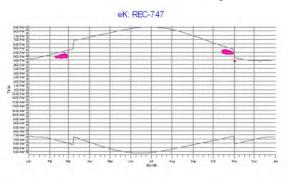


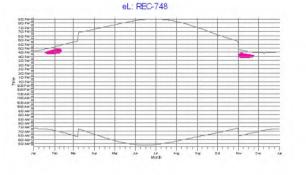


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

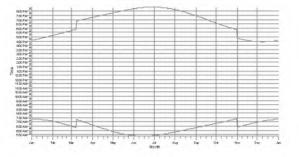
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SHADOW - Calendar, graphical

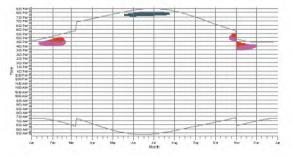




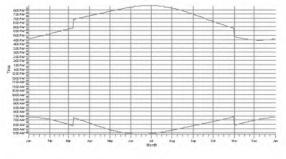
eM: REC-749



eN: REC-750

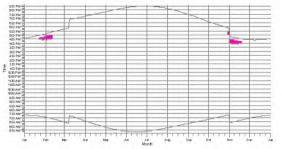








eP: REC-752

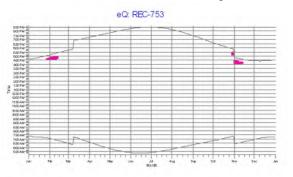


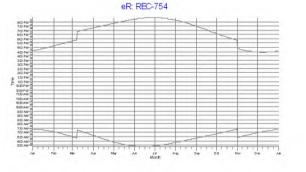


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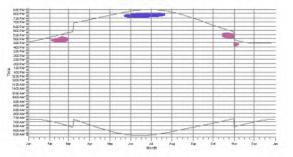
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SHADOW - Calendar, graphical

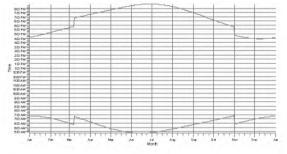




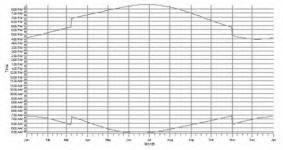
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eT: REC-756

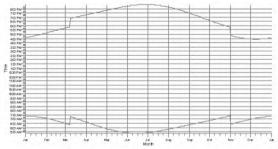










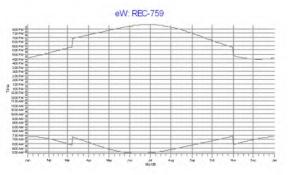


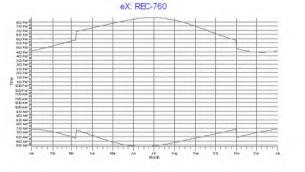


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

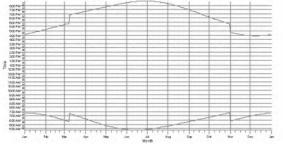
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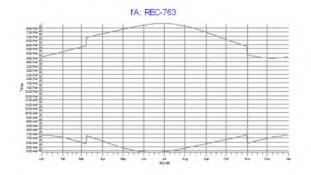




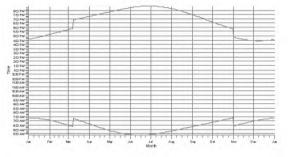


eY: REC-761

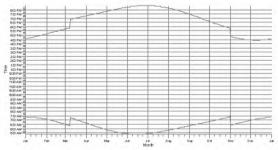




eZ: REC-762







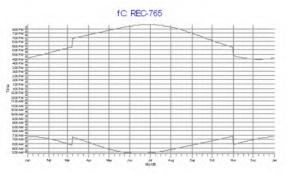


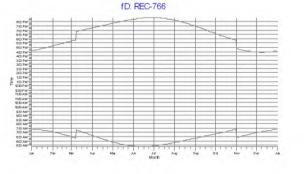
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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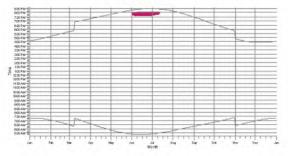
SHADOW - Calendar, graphical



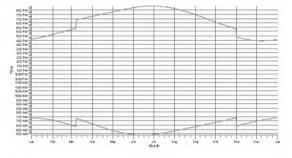




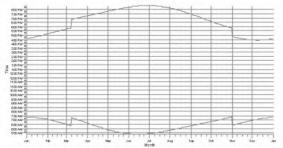
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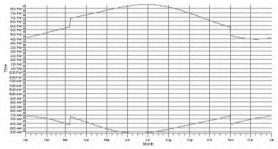
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WTGs 137: K81



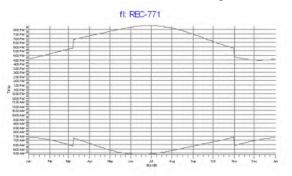
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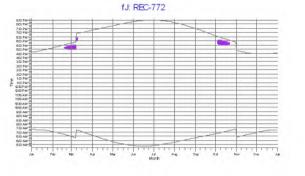
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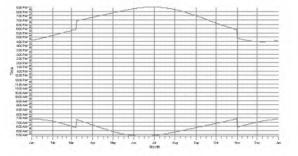
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)



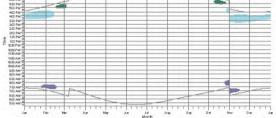


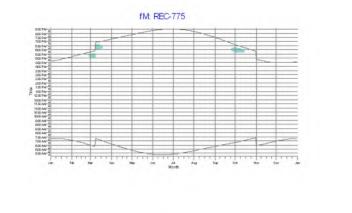
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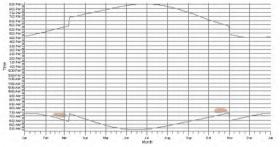
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fN: REC-776



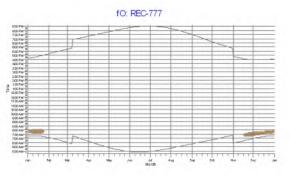
windPRO

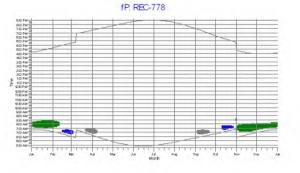
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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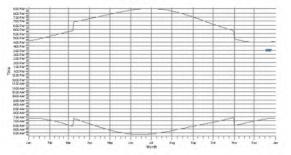
SHADOW - Calendar, graphical

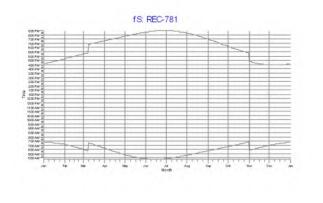
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)





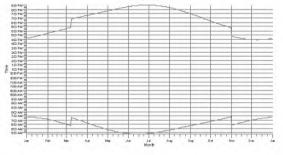
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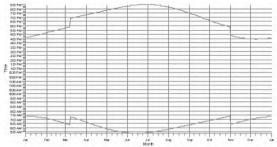


WTGs 1: L2 3: L5 4: L6 22: L34 71: L121

fR: REC-780





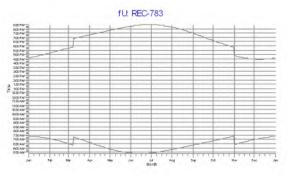


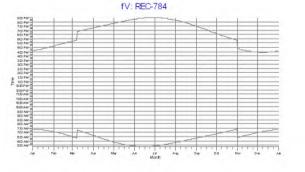
windPRO

Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

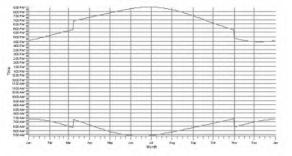
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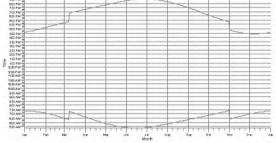




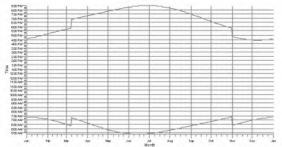




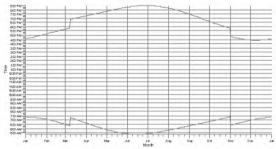










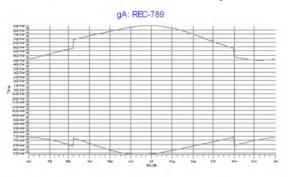


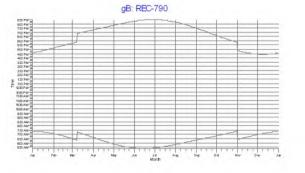


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect. Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

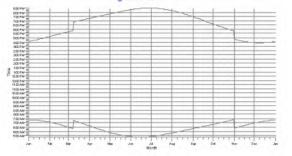
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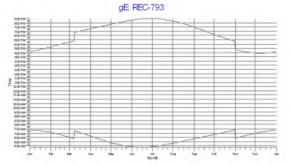
SHADOW - Calendar, graphical



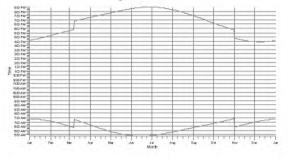


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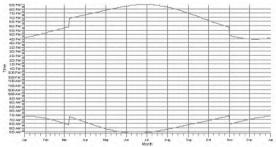




gD: REC-792





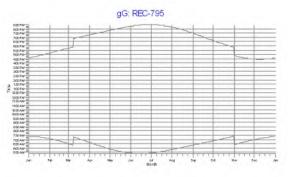


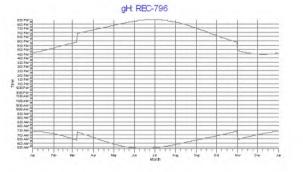


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

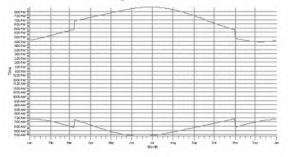
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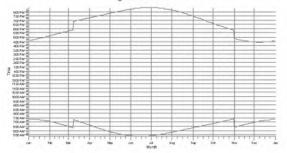




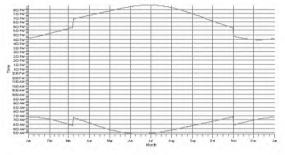
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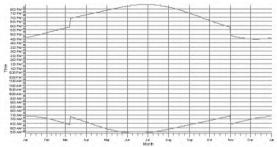
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gJ: REC-798







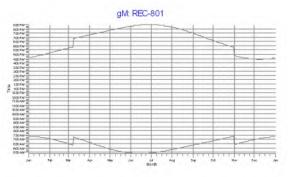


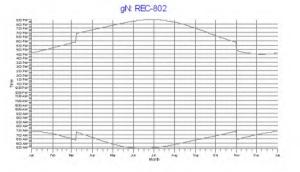
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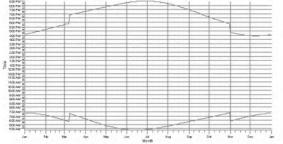
SHADOW - Calendar, graphical





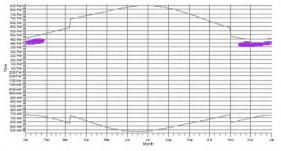


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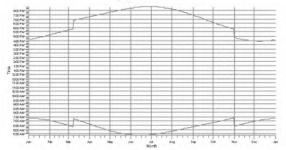


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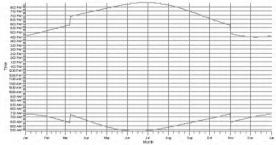












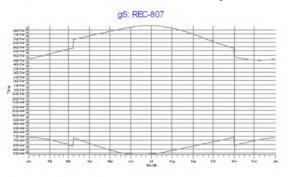
WTGs 123: K63

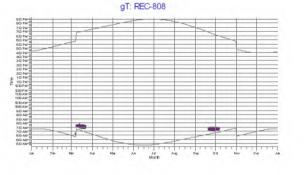
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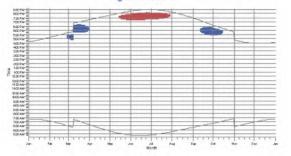
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

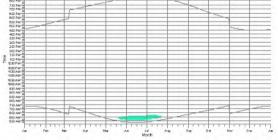




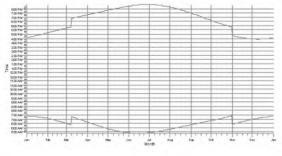
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gV: REC-810

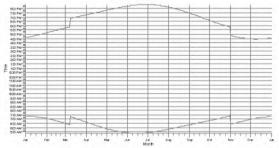








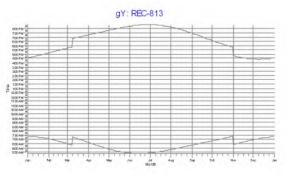
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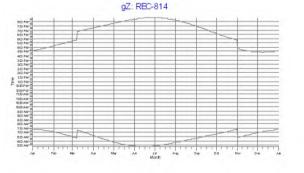


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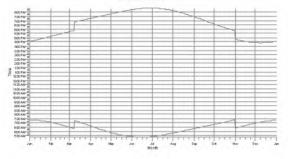
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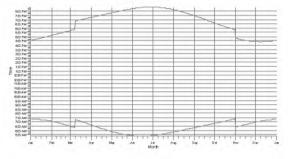




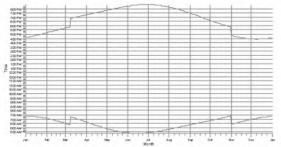
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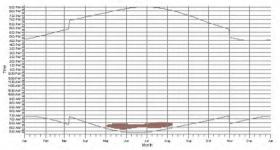
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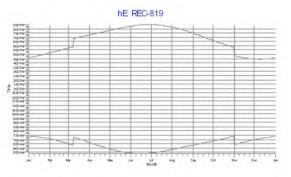


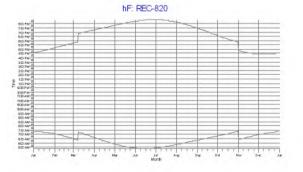
WTGs 110: K48

Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

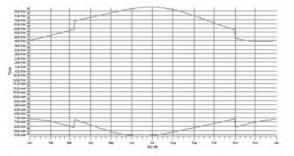
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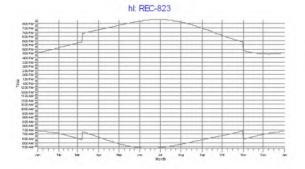




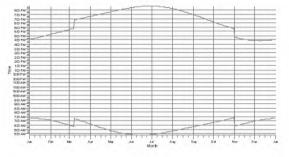


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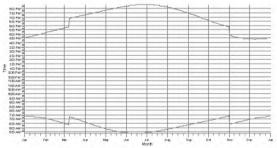




hH: REC-822





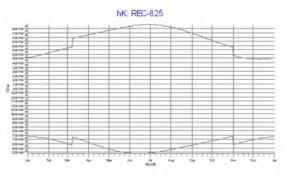


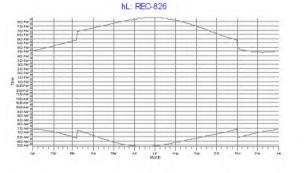


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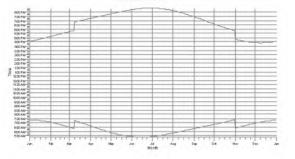
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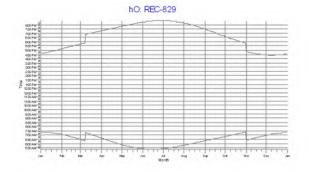




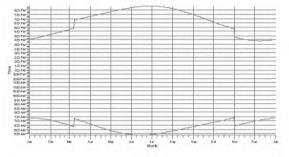
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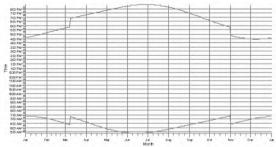




hN: REC-828





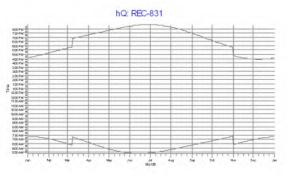


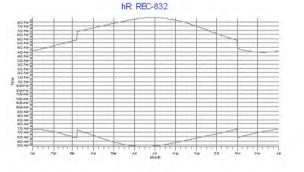


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

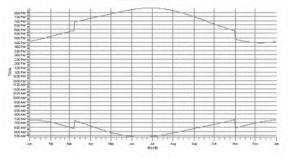
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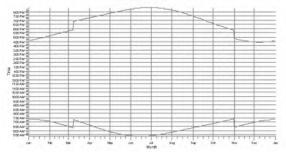




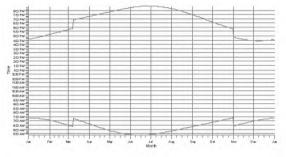
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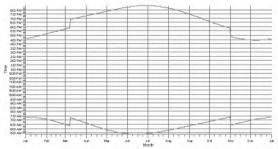
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hT: REC-834





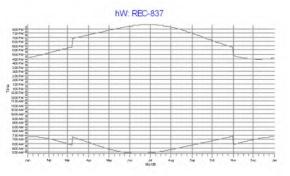


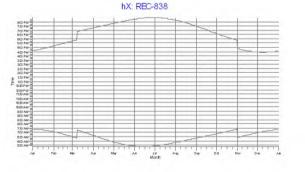


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

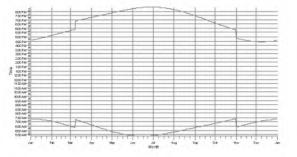
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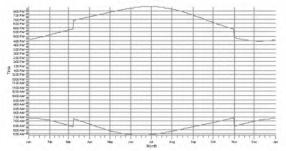




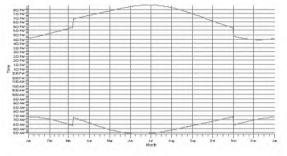
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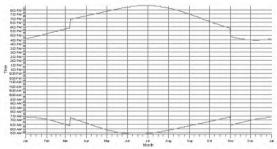
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hZ: REC-840







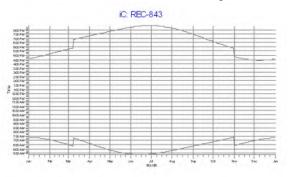


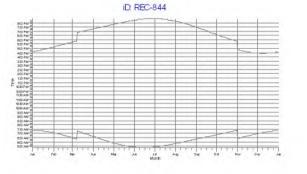
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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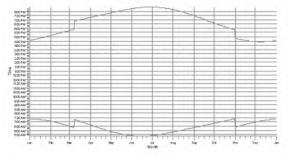
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

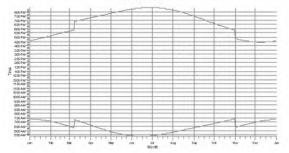




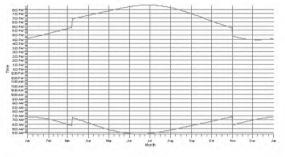
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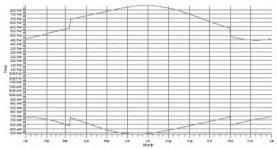
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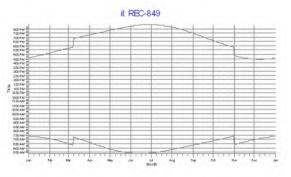


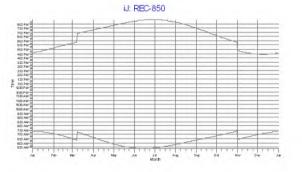
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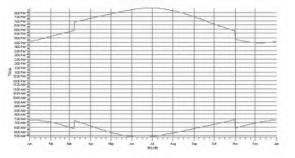
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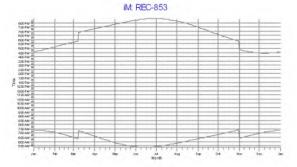




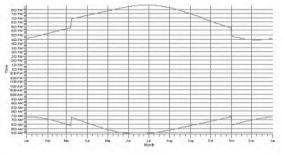
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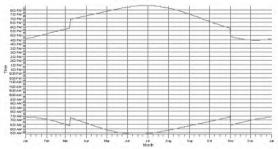
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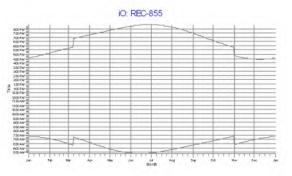


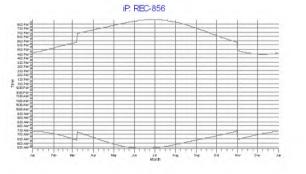
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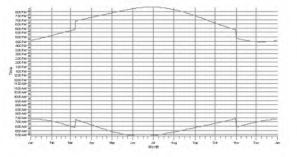
SHADOW - Calendar, graphical



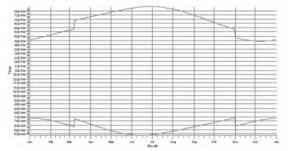




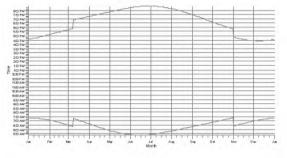
iQ: REC-857



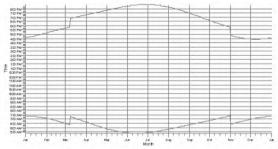
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iR: REC-858







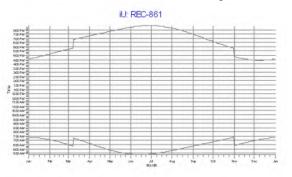


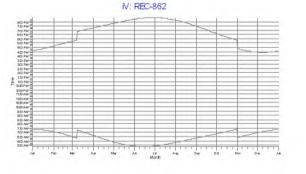
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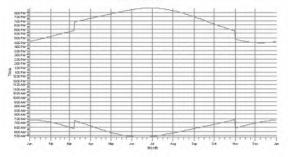
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

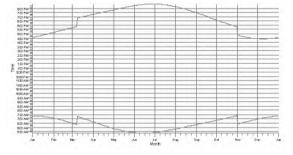




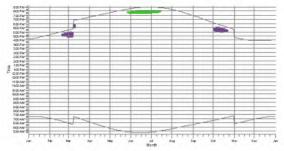
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iX: REC-864

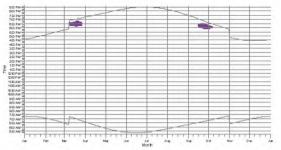






WTGS 130: K73 131: K74

IZ: REC-866



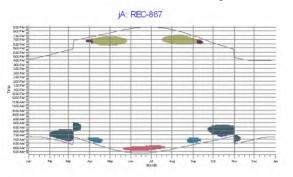


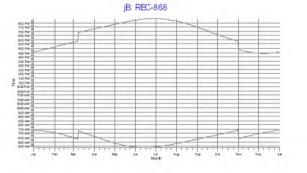
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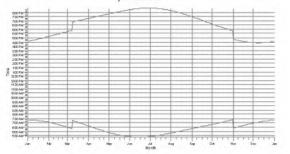
SHADOW - Calendar, graphical

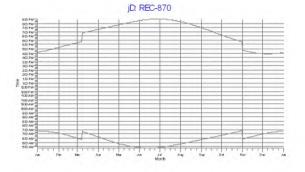
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

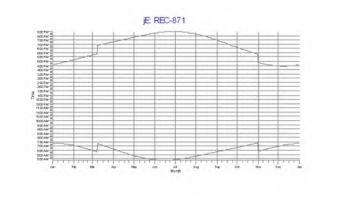


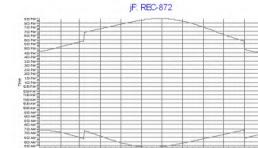


jC: REC-869









Jil

WTGs 126: K68 129: K71 133: K77 135: K79 136: K101 143: K205

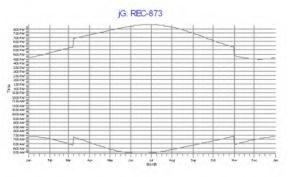


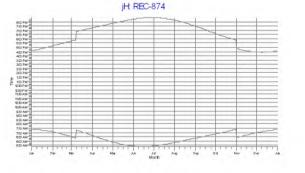
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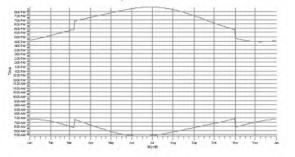
SHADOW - Calendar, graphical



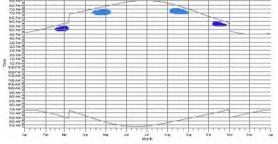


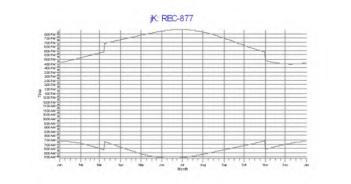


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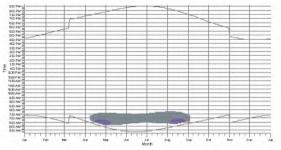
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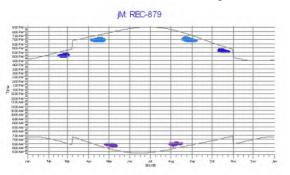
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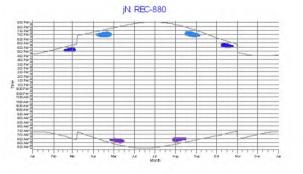
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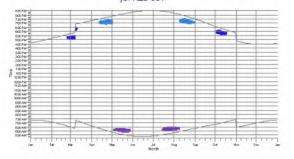
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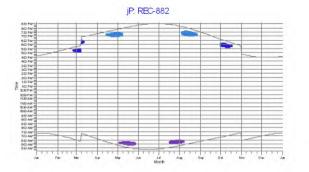
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

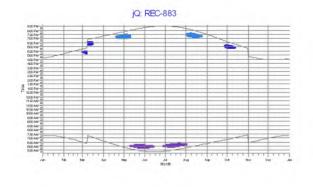




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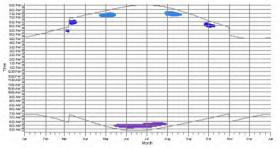












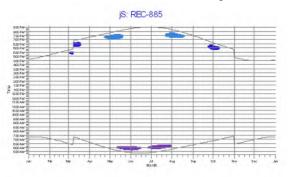
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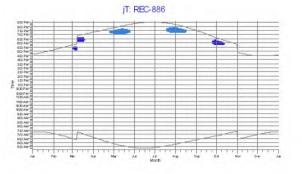
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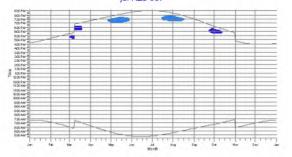
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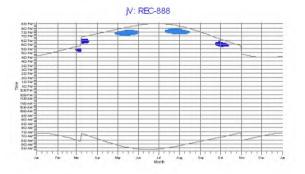
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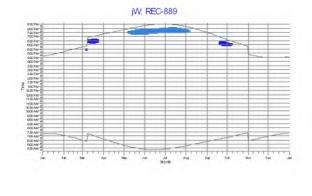




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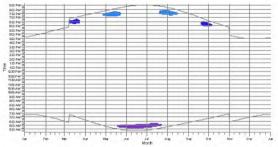












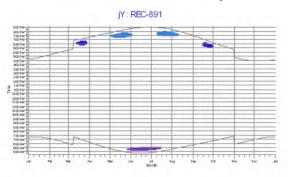


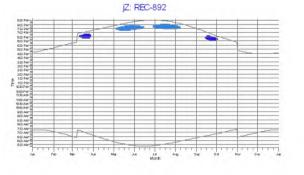
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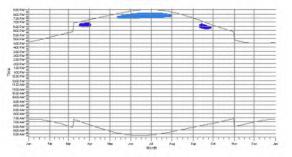
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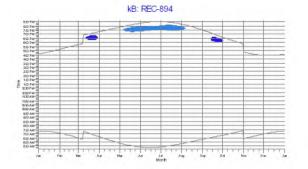
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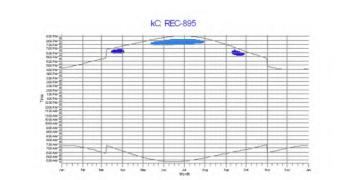






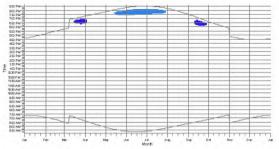












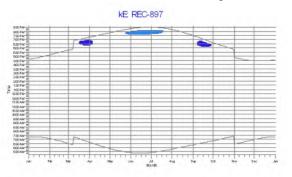
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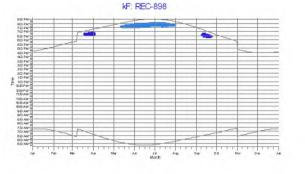
2010 P9 7:30 P9 7:07 P8

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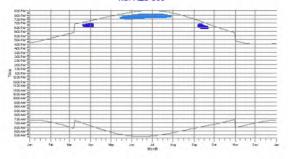
SHADOW - Calendar, graphical

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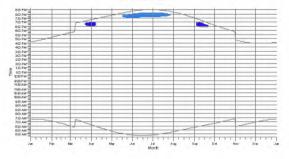




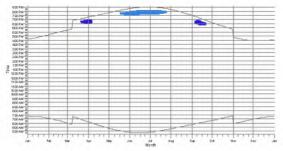
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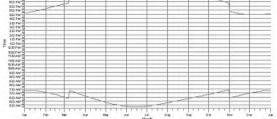
kH: REC-900







kJ: REC-902



WTGs 36: L61 39: L64

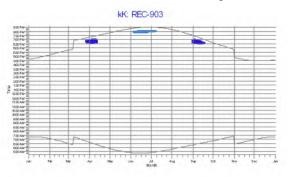


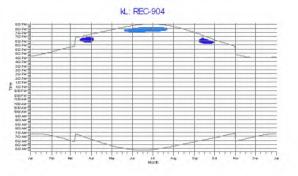
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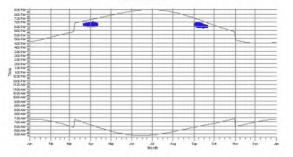
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (GE, Estimated Sunshine)

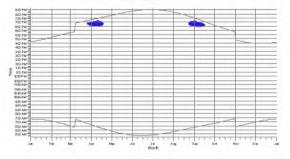




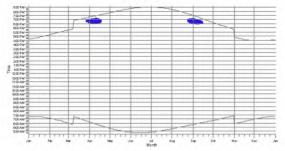
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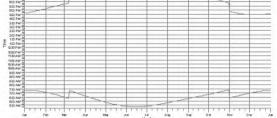






2010 P9 7:30 P9 7:07 P8

kP: REC-908



WTGs 36: L61 39: L64

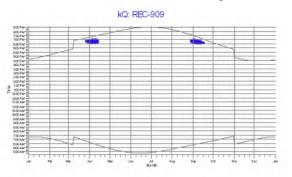


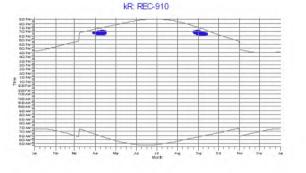
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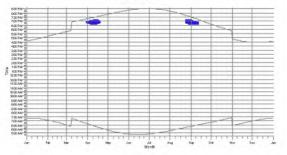
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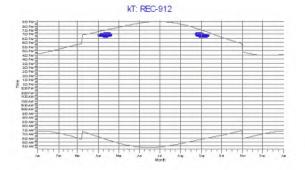
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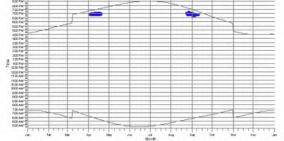




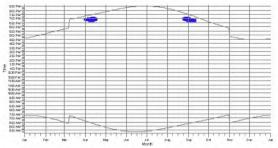














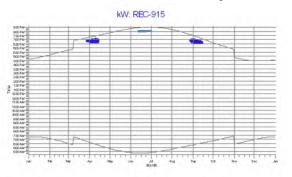
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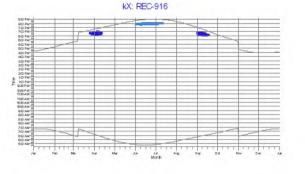
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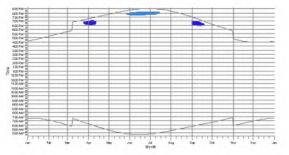
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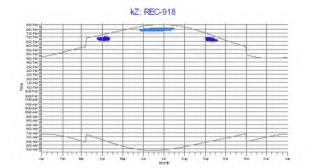
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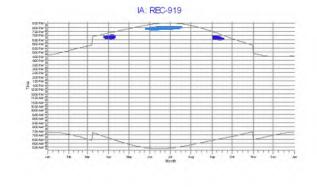


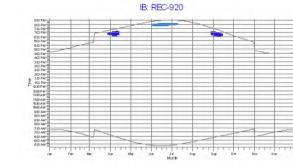












WTGs 36: L61 39: L64

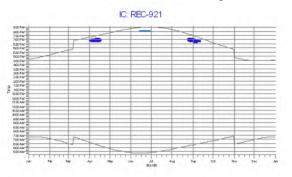


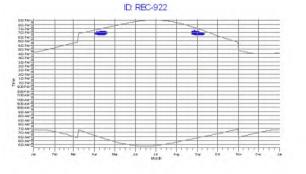
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect. Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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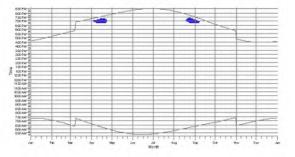
SHADOW - Calendar, graphical

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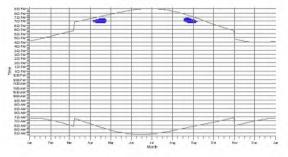




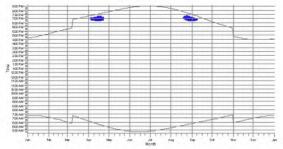
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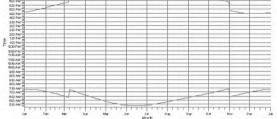
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2010 P9 7:30 P9 7:07 P8



IH REC-926



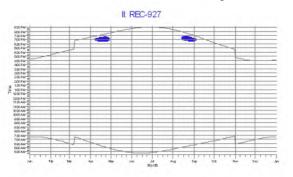


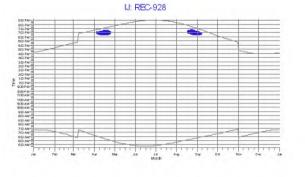
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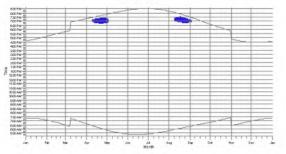
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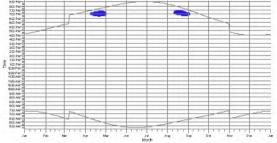




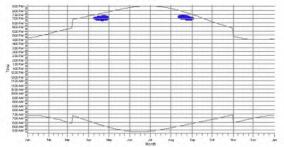




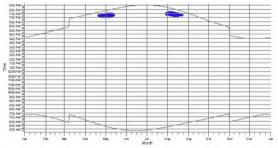












WTGs 36: L61

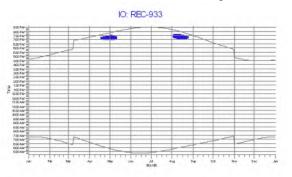


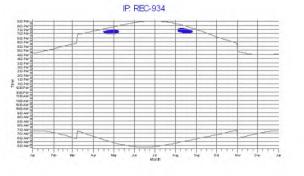
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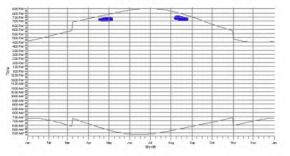
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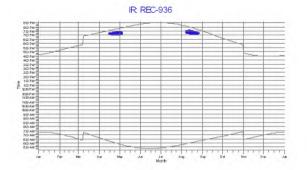
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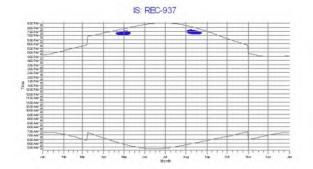




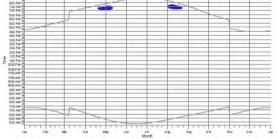














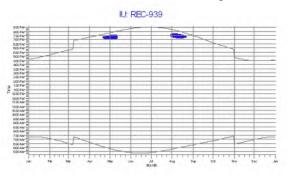


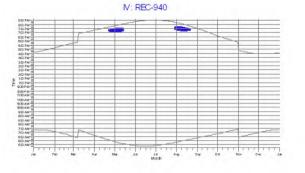
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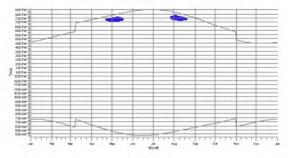
SHADOW - Calendar, graphical

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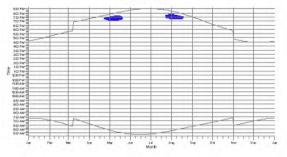


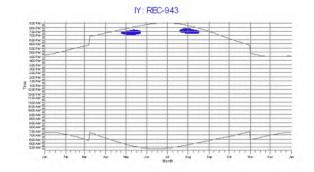


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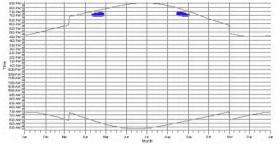


IX: REC-942





IZ: REC-944





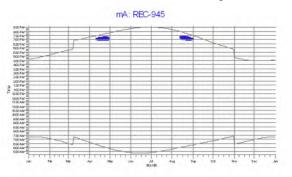
WTGs 36: L61

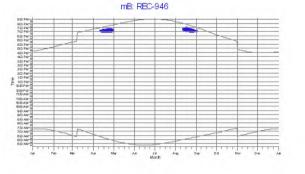
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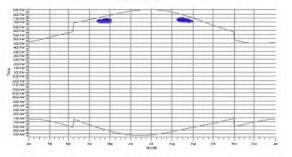
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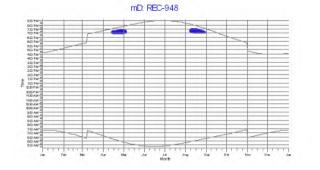
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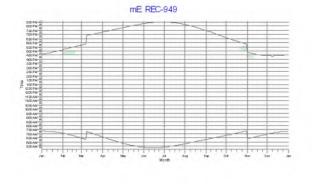




mC: REC-947







128: K70

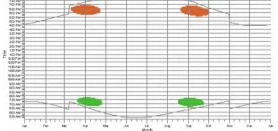
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WTGs

36: L61

125: K66

mF: REC-950



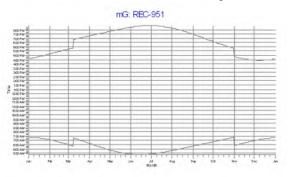
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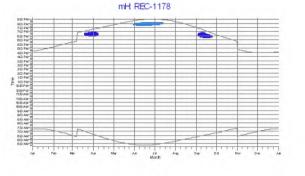
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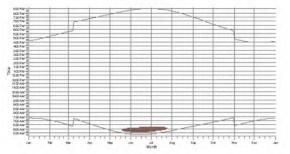
SHADOW - Calendar, graphical

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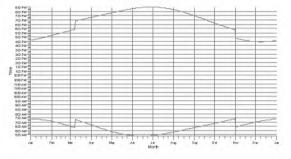




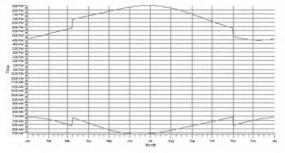
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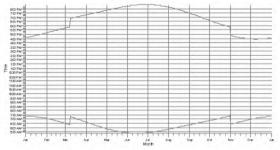








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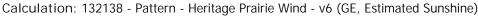


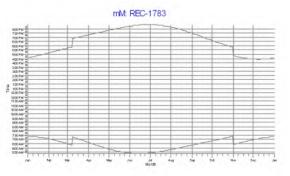
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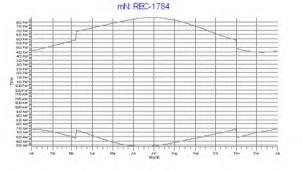
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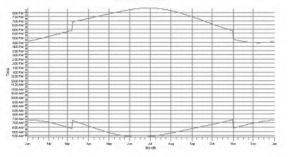
SHADOW - Calendar, graphical



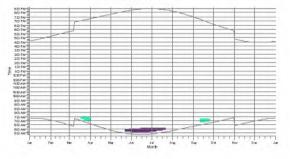




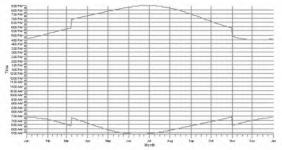
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mP: REC-1786

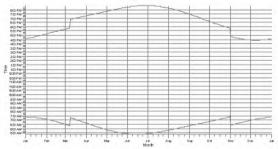














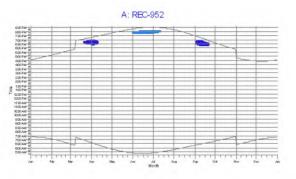
APPENDIX F - SHADOW FLICKER CALENDAR (VESTAS LAYOUT)

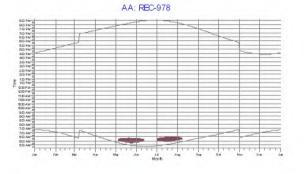
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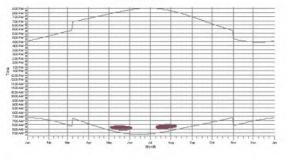
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

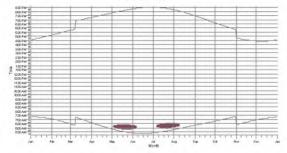






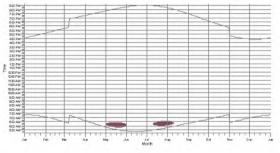




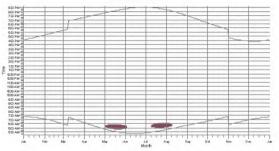


WTGs 36: L61 39: L64

AC: REC-980







79: K13

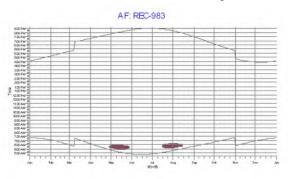
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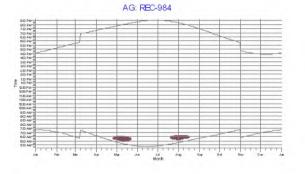
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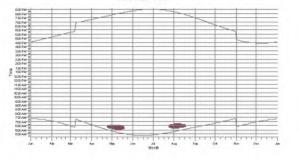
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Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

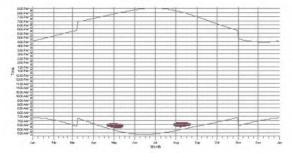




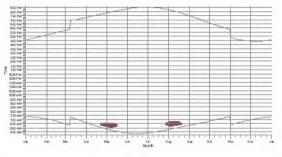
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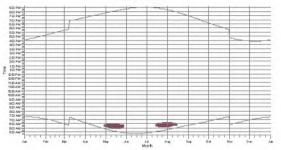
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WTGs

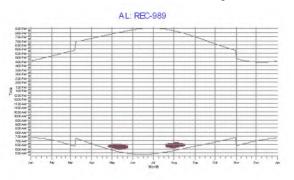


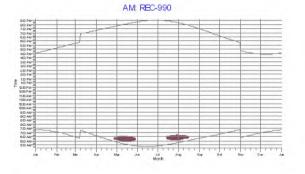
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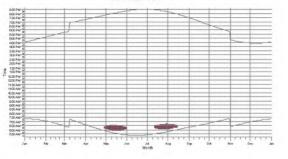
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

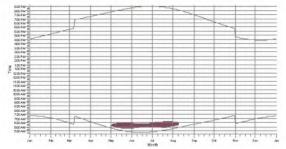




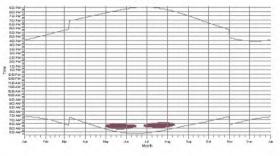




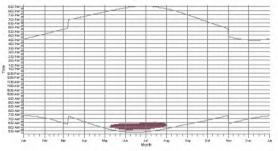




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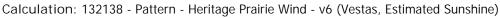


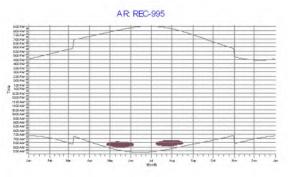
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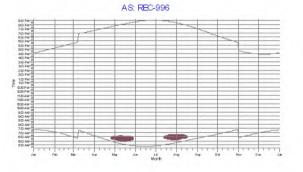
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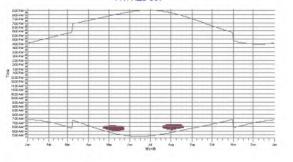
SHADOW - Calendar, graphical



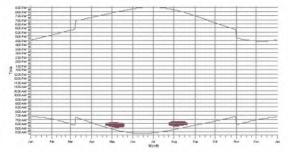




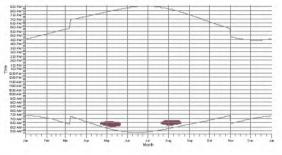




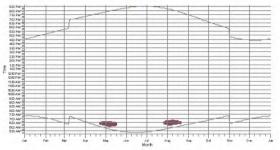




AU: REC-998









Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect. Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

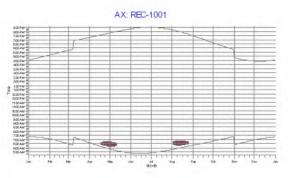
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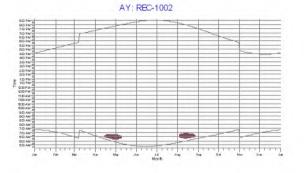
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SHADOW - Calendar, graphical

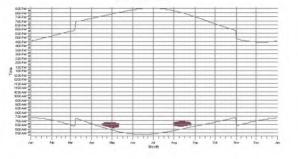




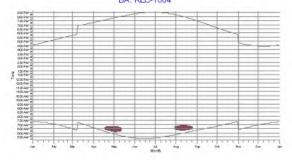


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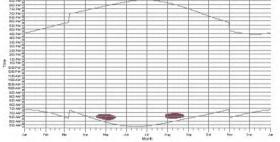






BB: REC-1005

Jil Mon



WTGs

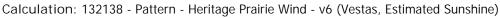
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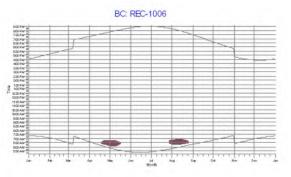


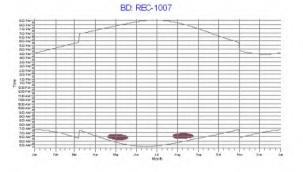
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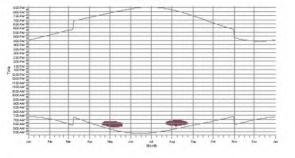
SHADOW - Calendar, graphical



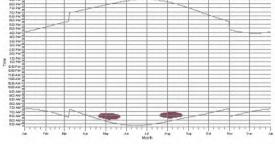




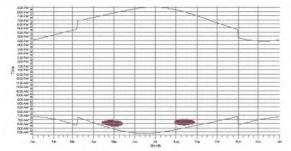




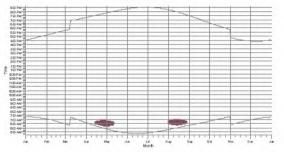








BH: REC-1011

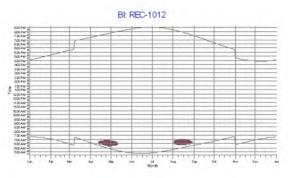


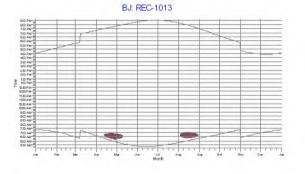
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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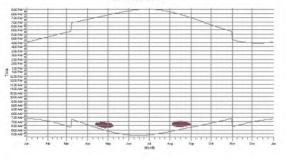
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

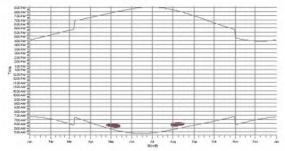




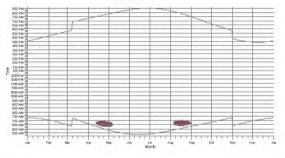




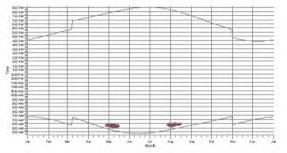




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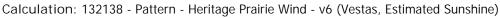
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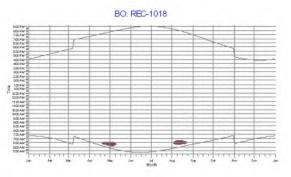


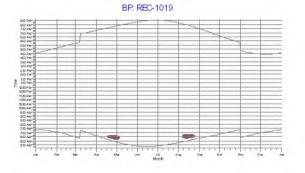
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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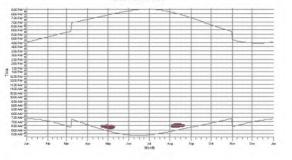
SHADOW - Calendar, graphical



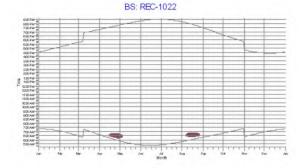




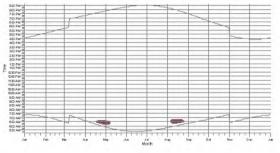




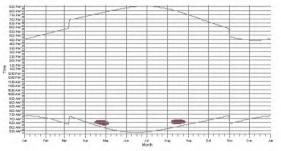




BR: REC-1021







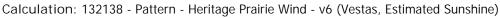
WTGs

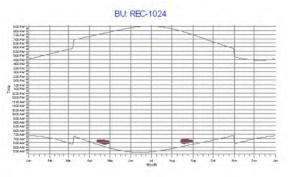


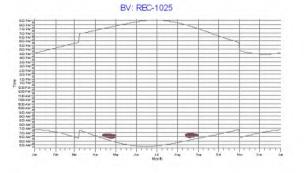
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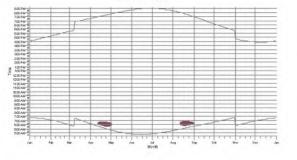
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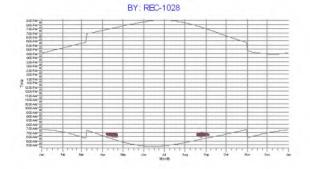




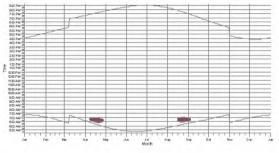


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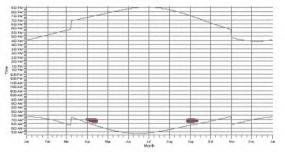




BX: REC-1027



BZ: REC-1029



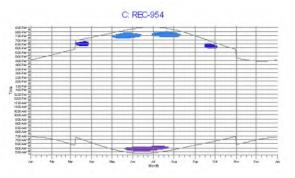
windPRO

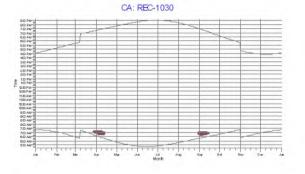
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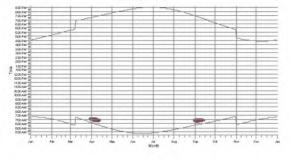
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

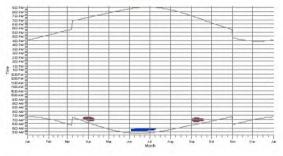




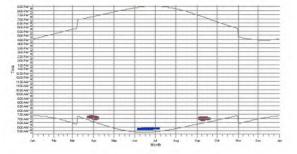
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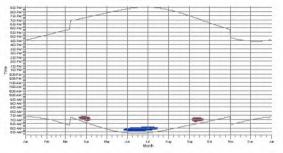








CE REC-1034

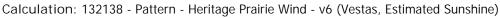


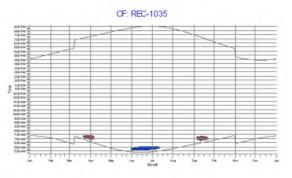
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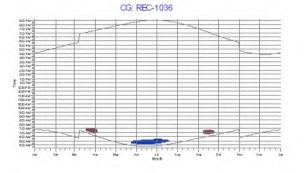
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SHADOW - Calendar, graphical

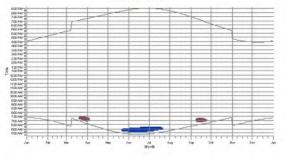




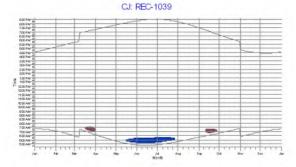


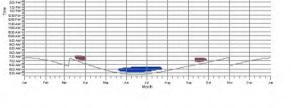
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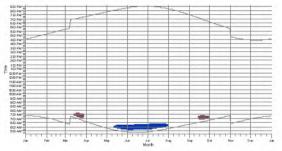












WTGs

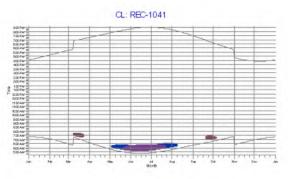
79: K13

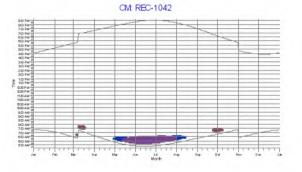
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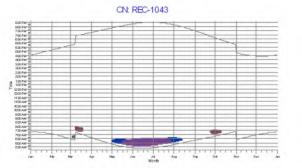
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SHADOW - Calendar, graphical

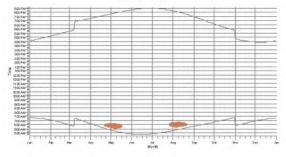






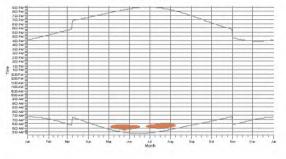




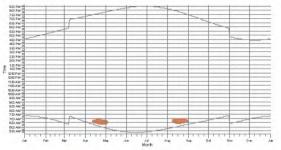




CO: REC-1044





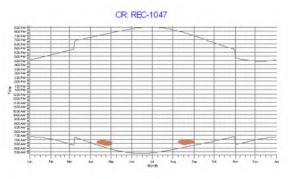


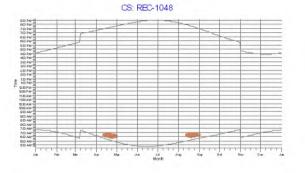
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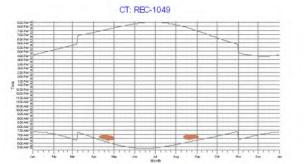
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SHADOW - Calendar, graphical

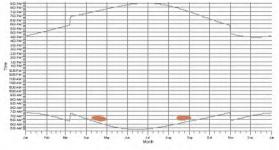




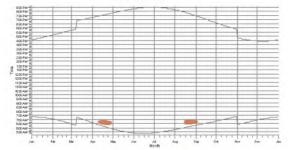




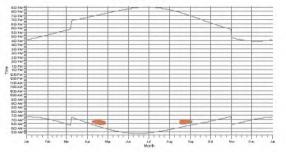








CW: REC-1052



WTGs

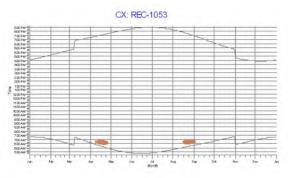


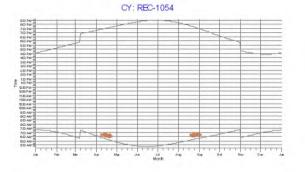
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

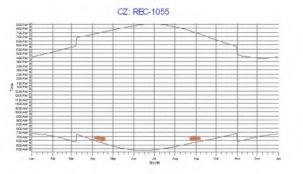
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SHADOW - Calendar, graphical

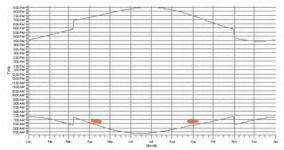




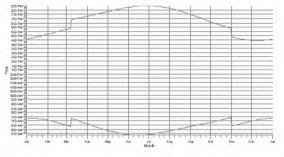




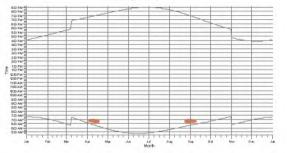




D: REC-955



DB: REC-1057

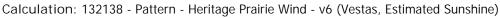


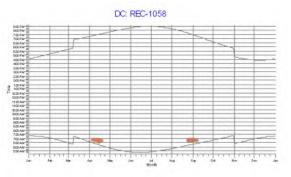


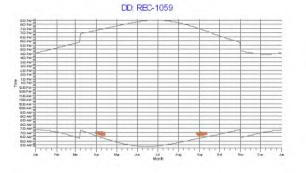
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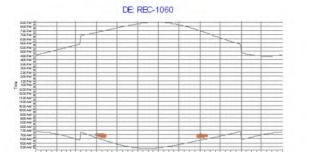
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SHADOW - Calendar, graphical

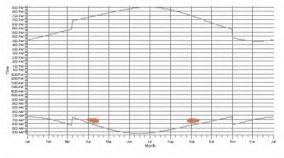




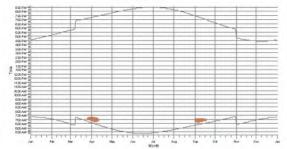




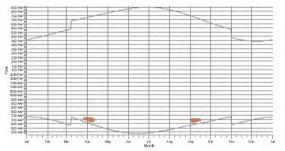








DH: REC-1063



WTGs



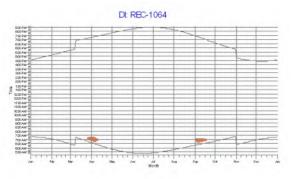


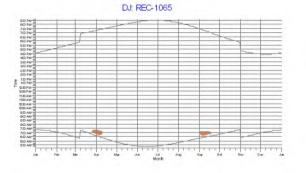
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

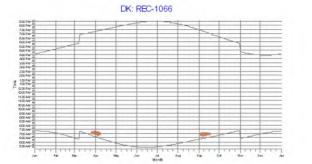
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SHADOW - Calendar, graphical

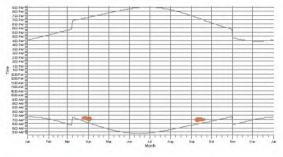
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)



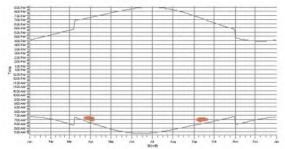




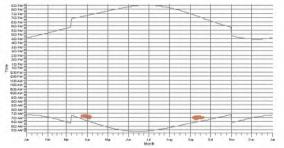








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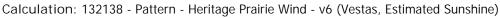
WTGs

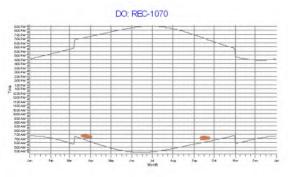
112: K92

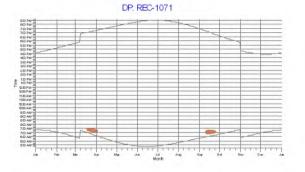
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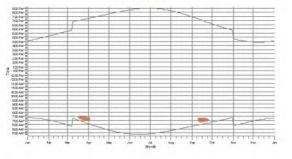
SHADOW - Calendar, graphical



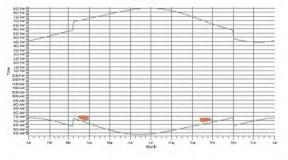




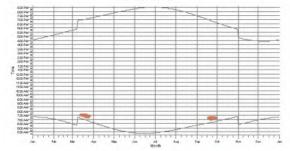




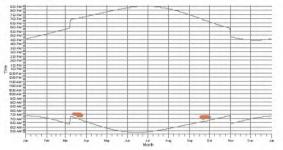
DR: REC-1073







DT: REC-1075



WTGs

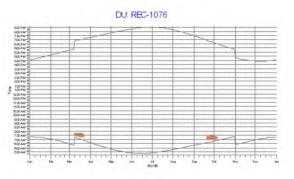
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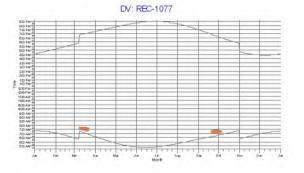
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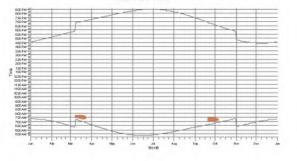
SHADOW - Calendar, graphical



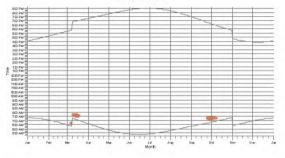




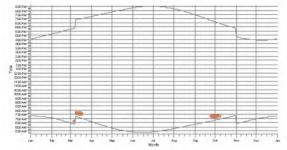
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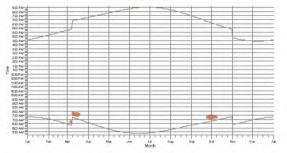








DZ: REC-1081





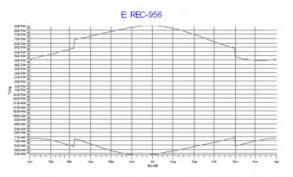


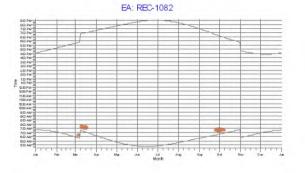
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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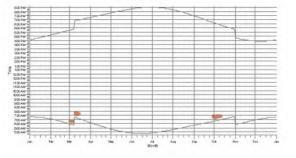
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

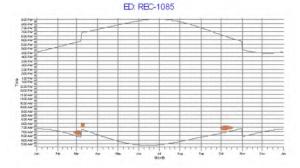




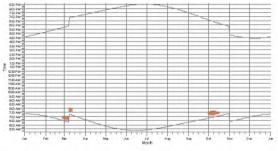
EB: REC-1083



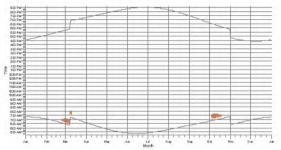




EC: REC-1084







WTGs

112: K92

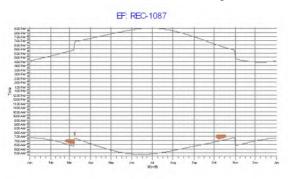


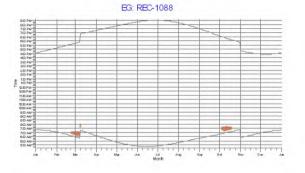
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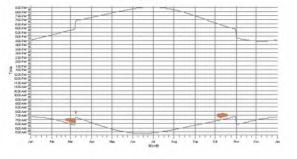
SHADOW - Calendar, graphical

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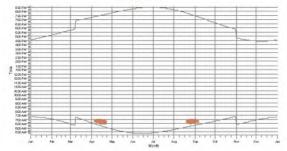




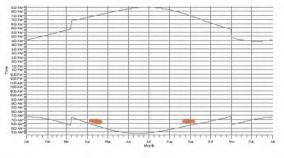
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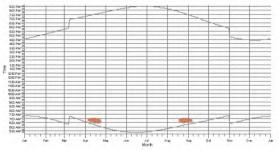




E: REC-1090







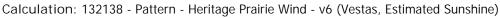


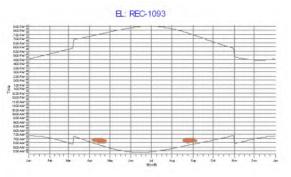


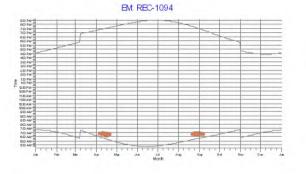
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

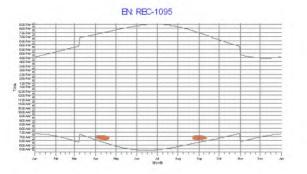
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SHADOW - Calendar, graphical

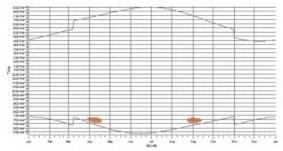




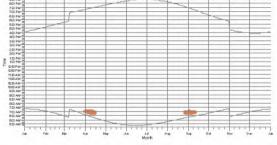




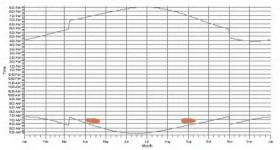




EO: REC-1096







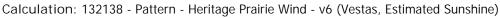
112: K92

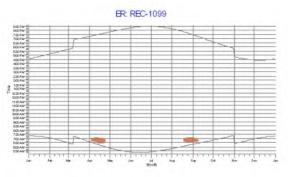


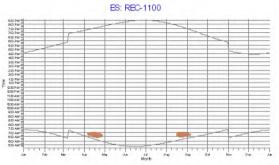
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

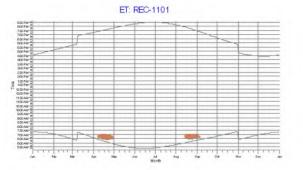
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SHADOW - Calendar, graphical

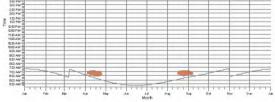




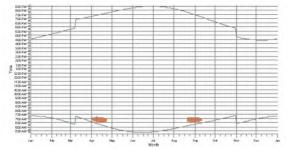




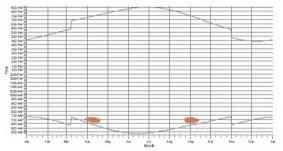








EW: REC-1104



WTGs

112: K92

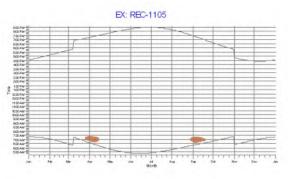
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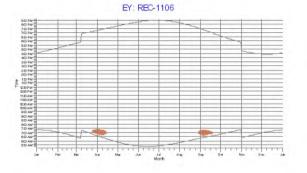
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

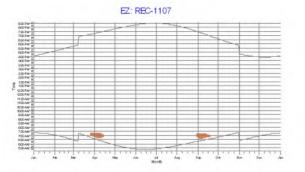
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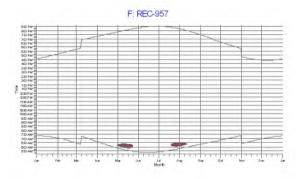
SHADOW - Calendar, graphical



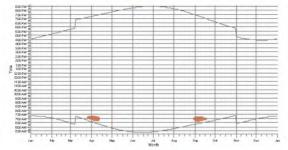




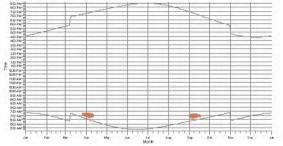








FB: REC-1109



WTGs

79: K13

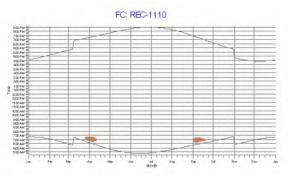
112: K92

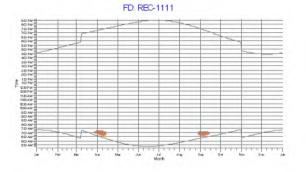
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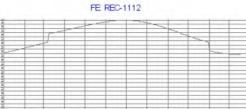
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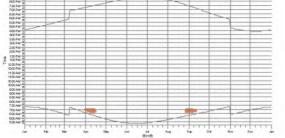
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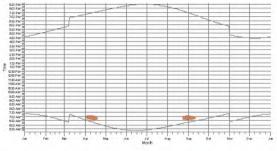




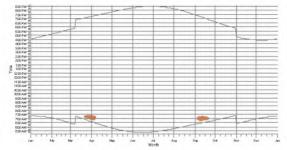




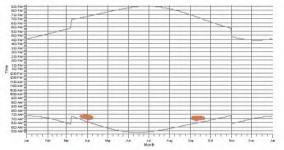








FH: REC-1115





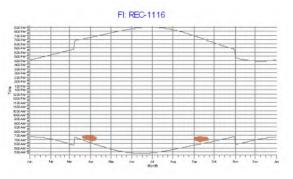


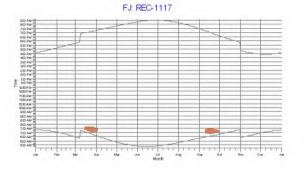
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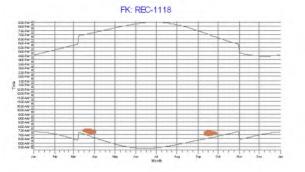
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SHADOW - Calendar, graphical

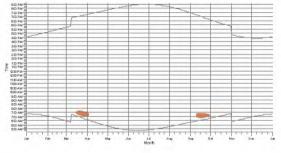




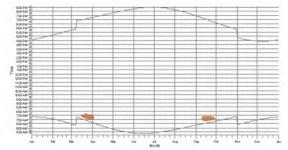




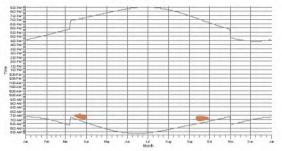








FN: REC-1121



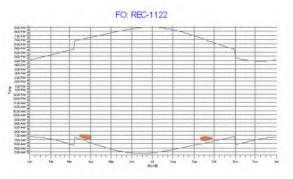


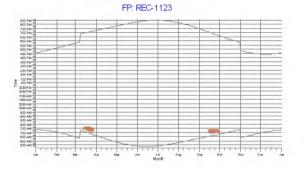
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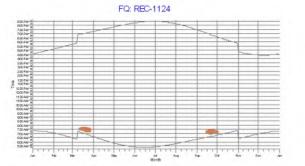
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SHADOW - Calendar, graphical

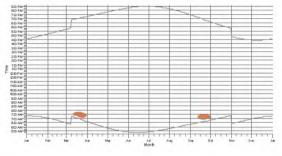




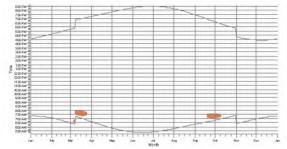




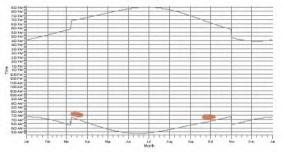








FT: REC-1127





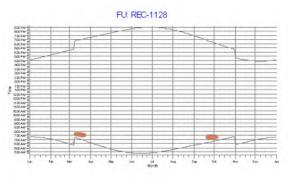


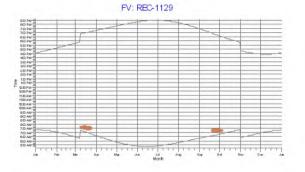
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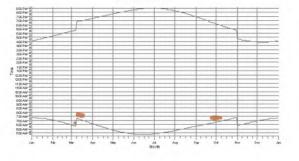
SHADOW - Calendar, graphical



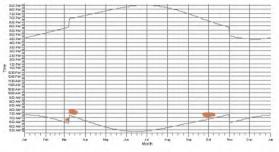




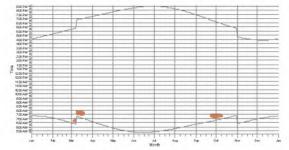
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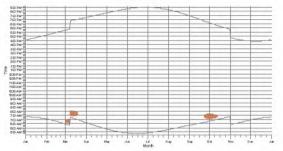








FZ: REC-1133





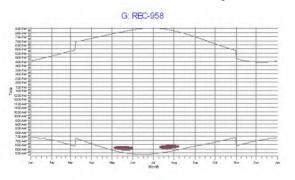


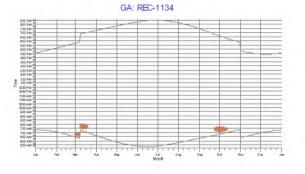
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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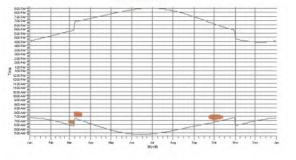
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

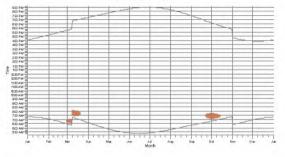




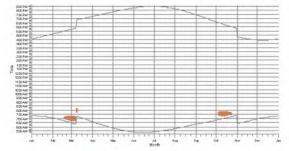






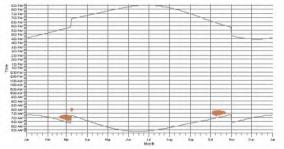






112: K92

GE REC-1138



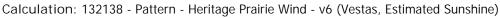
WTGs

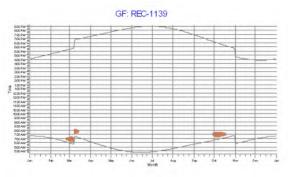
79: K13

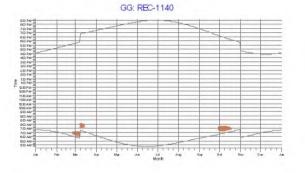
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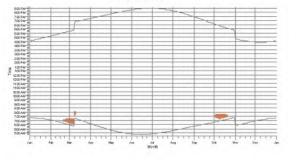
SHADOW - Calendar, graphical



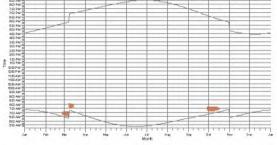




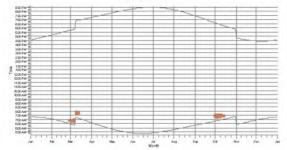
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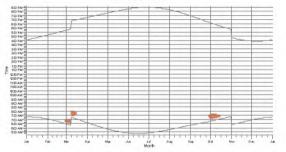








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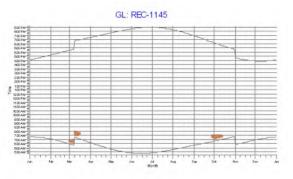


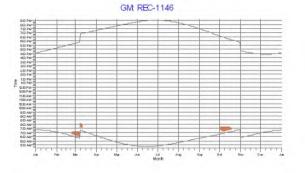
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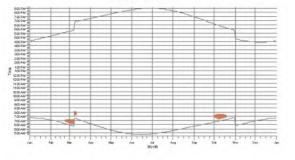
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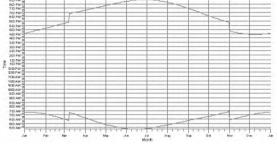




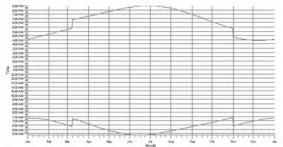
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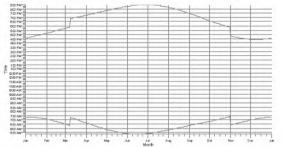








GQ: REC-1150



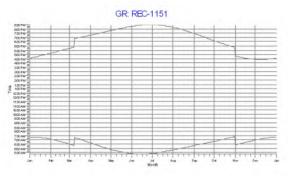


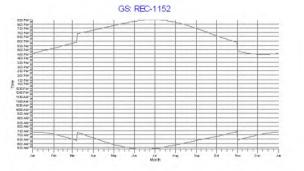
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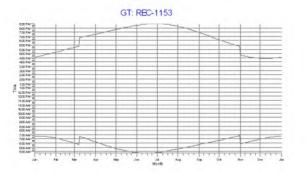
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SHADOW - Calendar, graphical

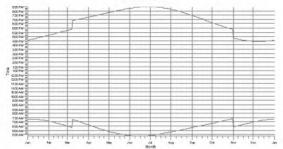




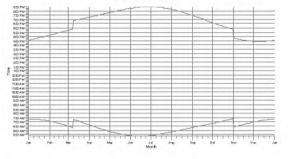




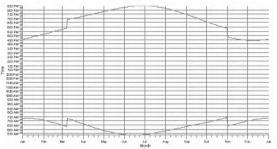




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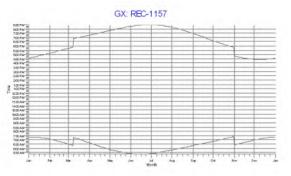
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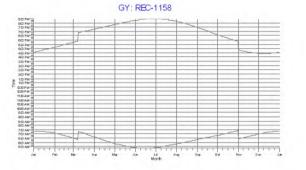
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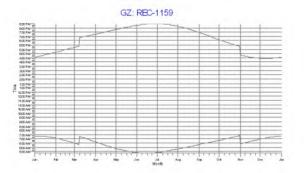
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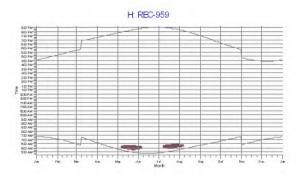
SHADOW - Calendar, graphical

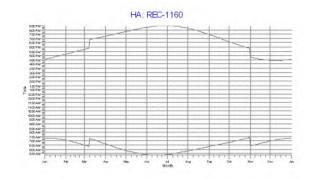




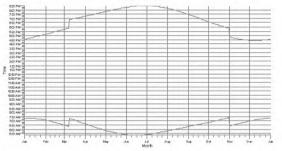








HB: REC-1161



WTGs

79: K13

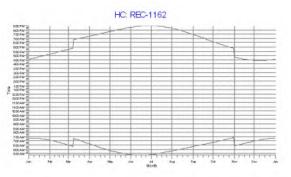


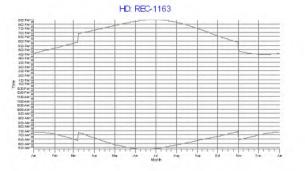
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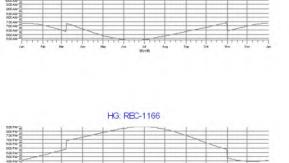
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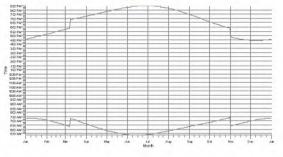




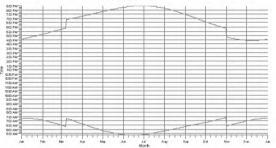
HE REC-1164



HF: REC-1165





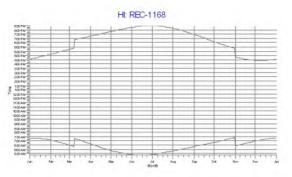


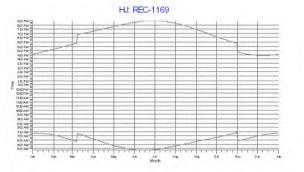
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SHADOW - Calendar, graphical

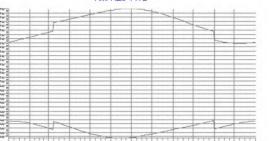




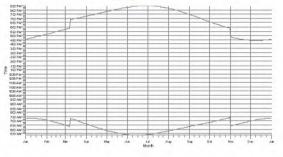


HK: REC-1170 000 PM 200 PM Mont

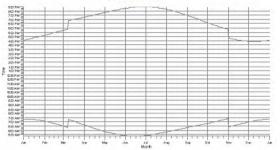




HL: REC-1171



HN: REC-1173



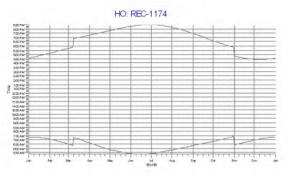


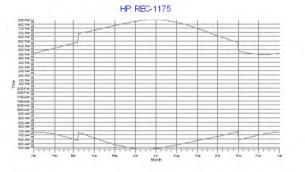
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SHADOW - Calendar, graphical

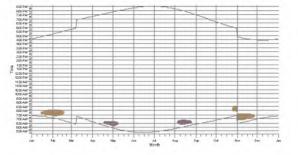






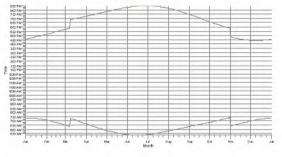
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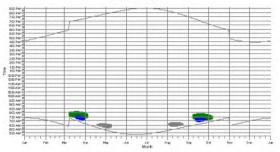




HR: REC-1177





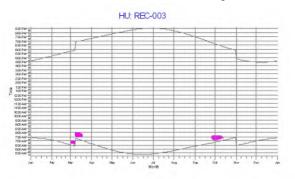


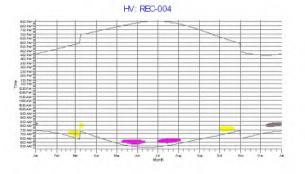
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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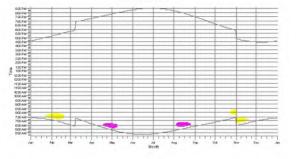
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

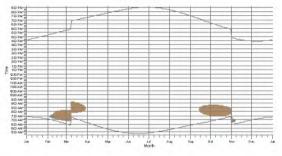




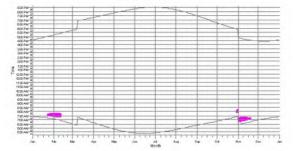
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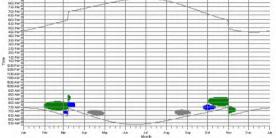








HZ: REC-008



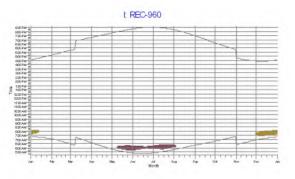


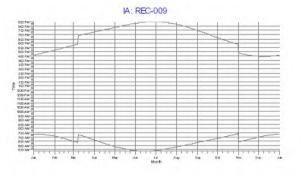
windPRO

Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

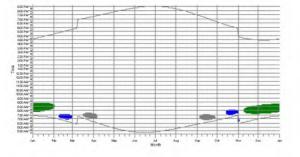
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SHADOW - Calendar, graphical

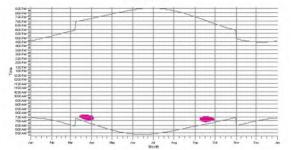




IB: REC-010

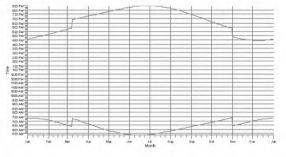




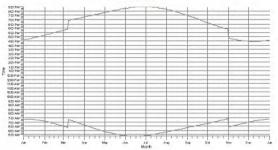




IC: REC-011



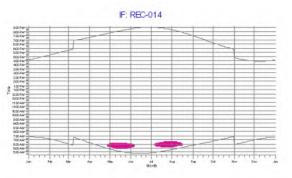


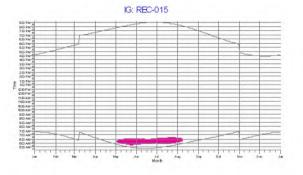


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

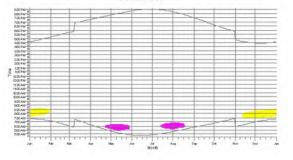
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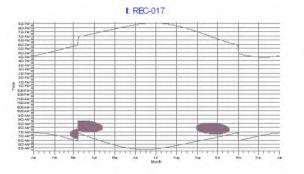
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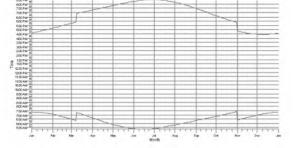


IH: REC-016



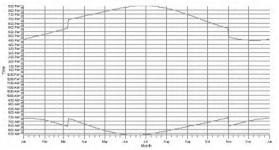










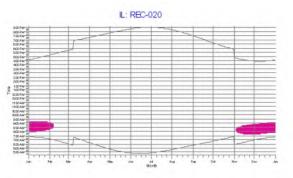


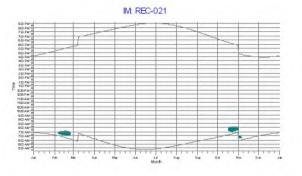
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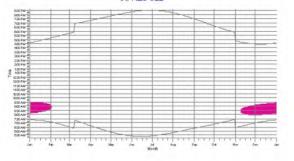
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

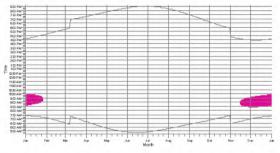




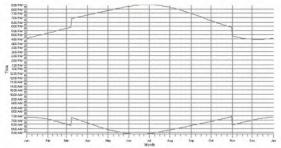
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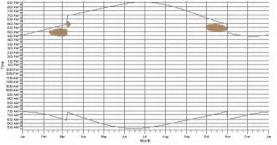






66: L109







6: L11

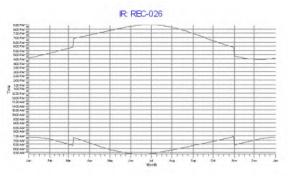
71: L121

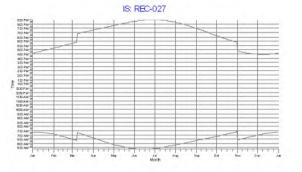
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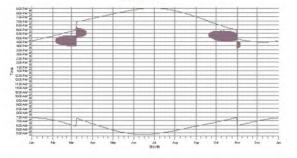
SHADOW - Calendar, graphical

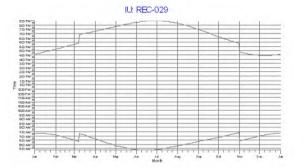




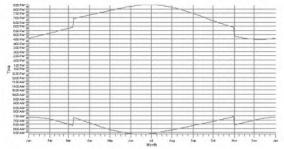


IT: REC-028



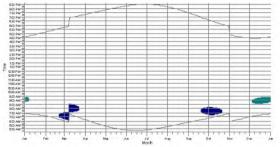






7: L13

IW: REC-031



WTGs

6: L11

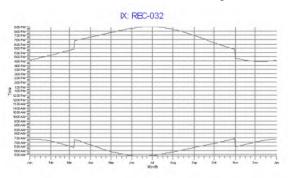
70: L120

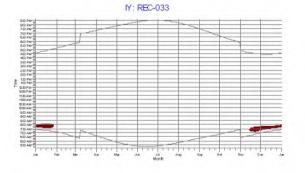
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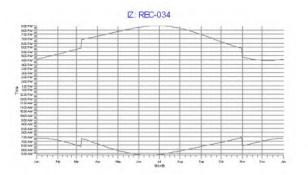
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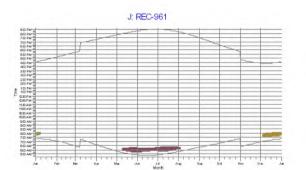
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

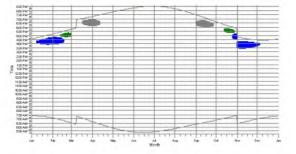






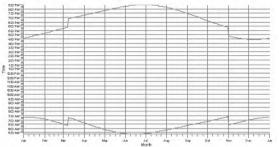






WTGs 1: L2 3: L5 4: L6 8: L16 78: K12 79: K13



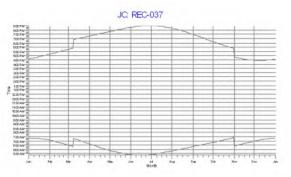


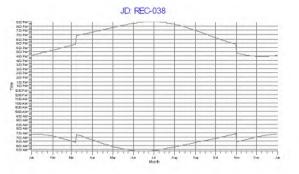
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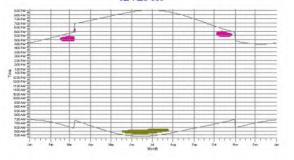
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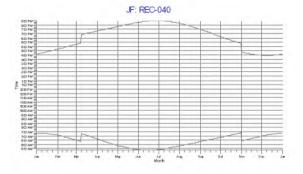




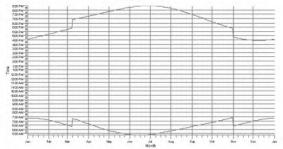


JE REC-039



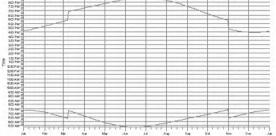






66: L109

JH: REC-042



WTGs

10: L18

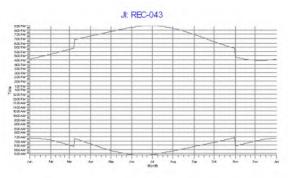


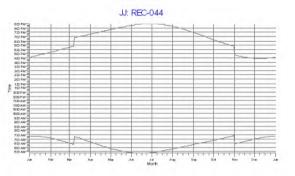
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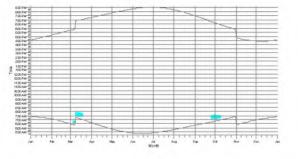
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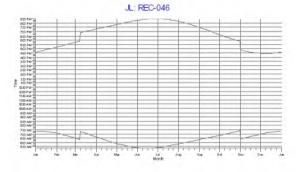




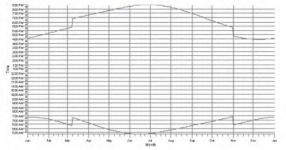


JK: REC-045



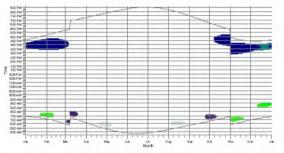






WTGs						
6: L11	7: L13	9: L17	13: L24	18: L30	61: L99	68: L111

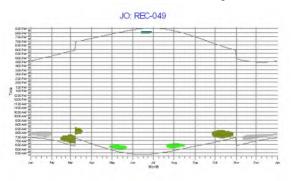
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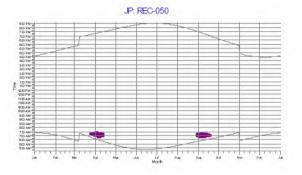


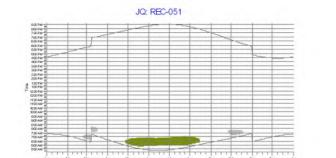
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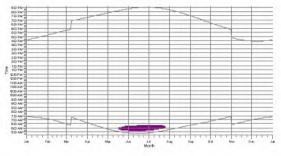
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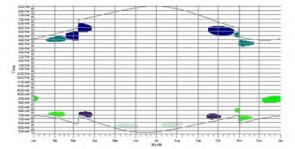




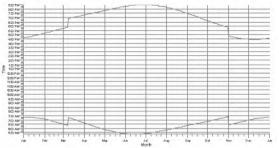










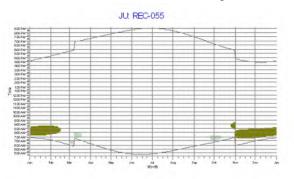


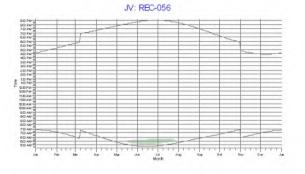


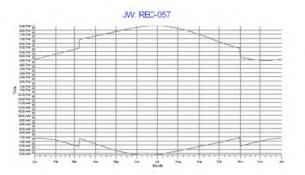
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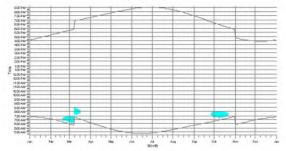
SHADOW - Calendar, graphical





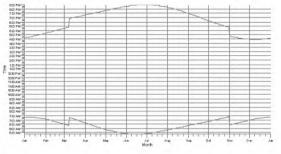




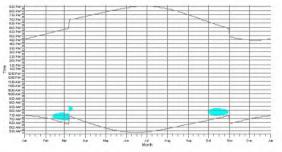


WTGs 14: L26 10: L18 13: L24

JX: REC-058







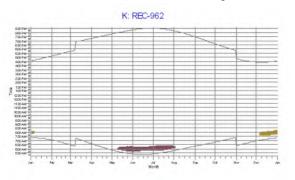


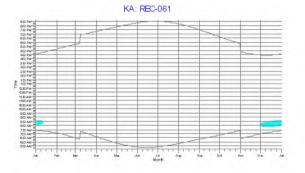
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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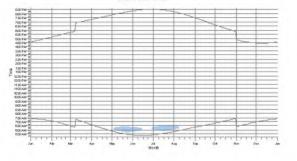
SHADOW - Calendar, graphical

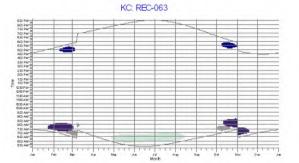
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)



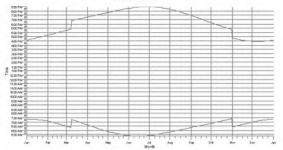


KB: REC-062

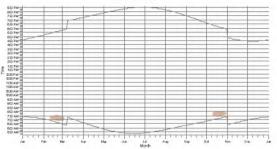








KE REC-065





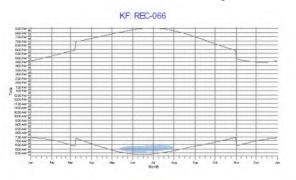


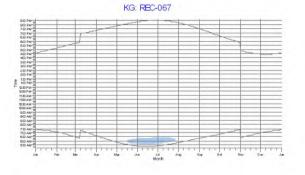
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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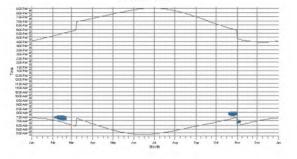
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

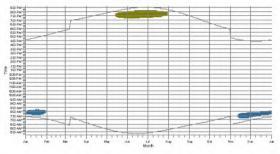




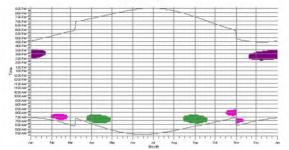
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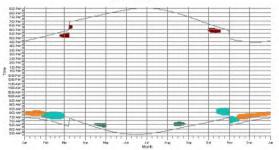








KK: REC-071







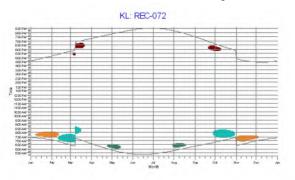
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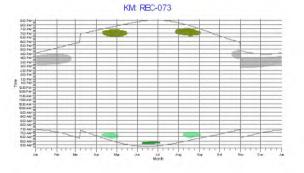
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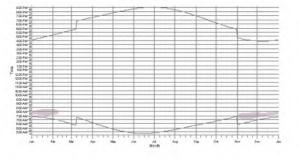
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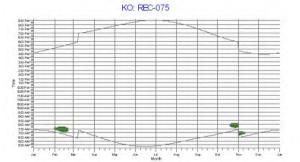
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)



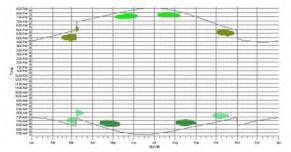


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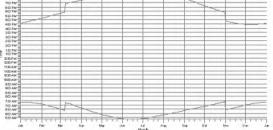






9: L17

KQ: REC-077



27: L40



8: L16

65: L107

67: L110

12: L21

21: L33 23: L35

25: L38

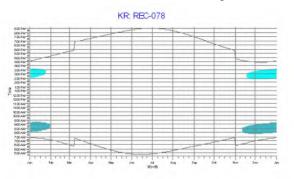
26: L39

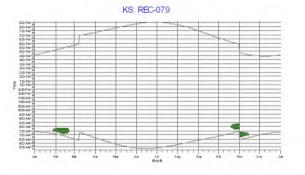
29: L43

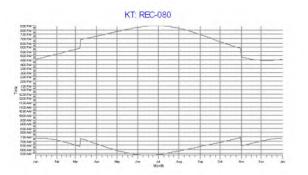
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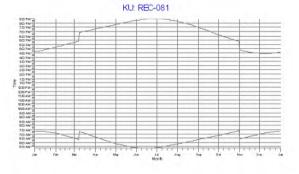
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SHADOW - Calendar, graphical

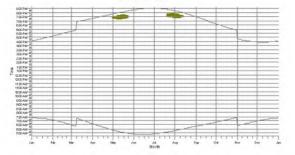






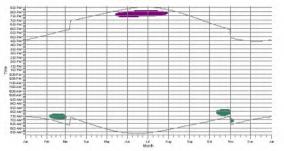






WTGs					
10: L18	11: L20	13: L24	19: L31	29: L43	65: L107

KW: REC-083

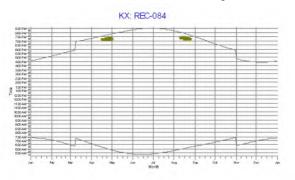


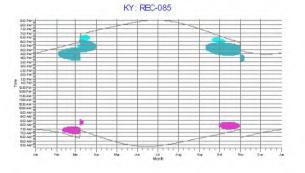


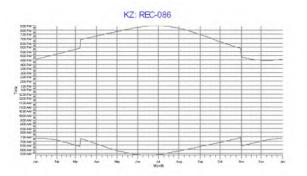
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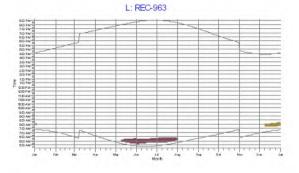
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SHADOW - Calendar, graphical

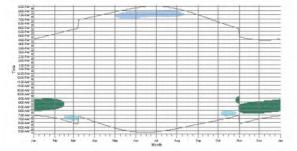




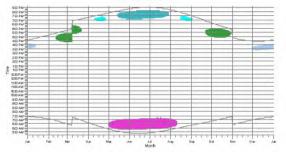








LB: REC-088

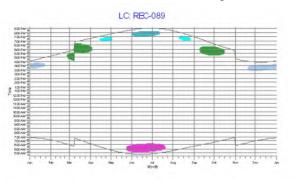


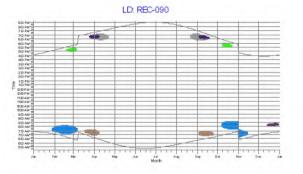


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

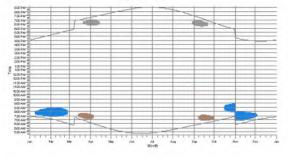
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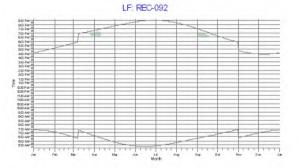
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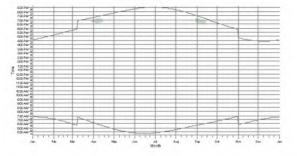


LE REC-091



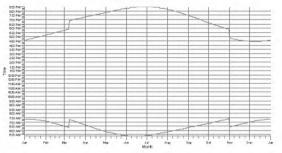








LH: REC-094

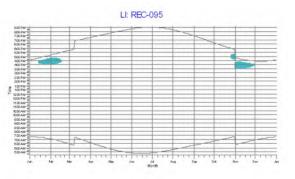


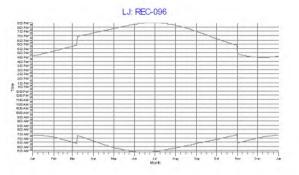
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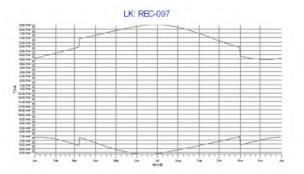
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SHADOW - Calendar, graphical

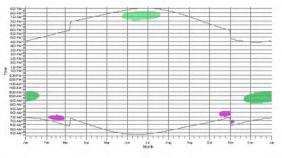
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

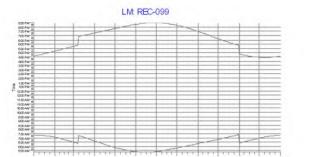




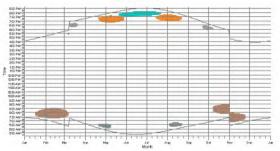








LN: REC-100





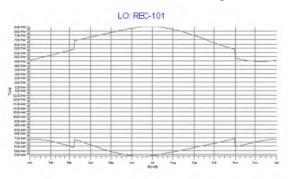
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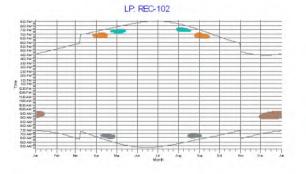
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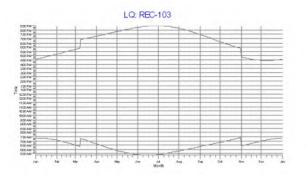
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SHADOW - Calendar, graphical

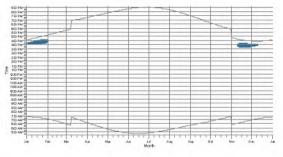
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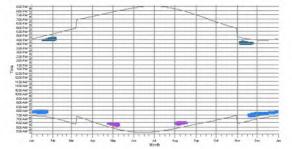




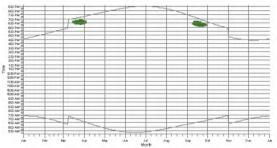








LT: REC-106

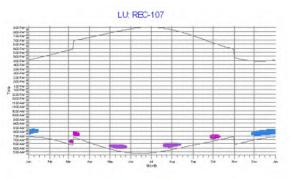


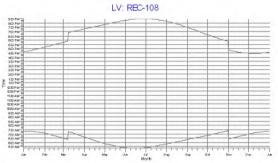


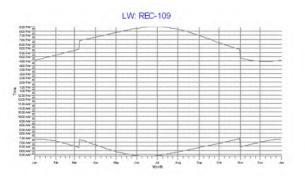
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect. Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

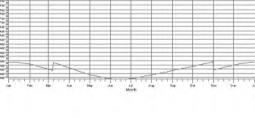
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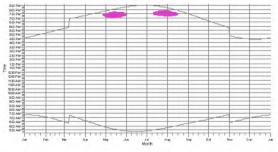




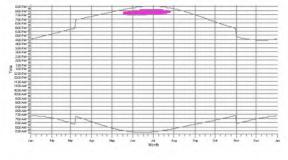






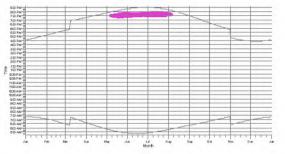








LZ: REC-112

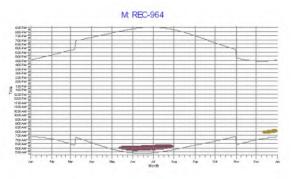


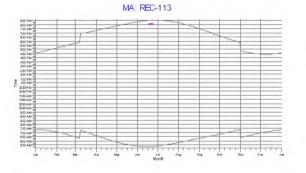
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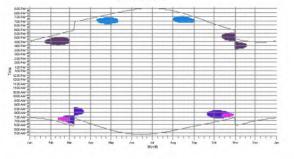
SHADOW - Calendar, graphical

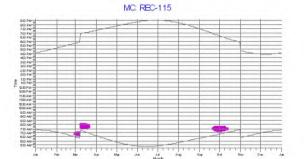
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)



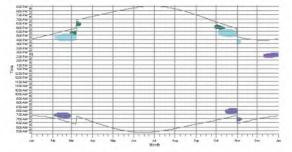


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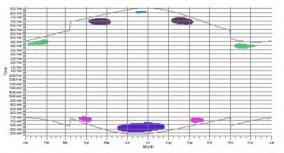








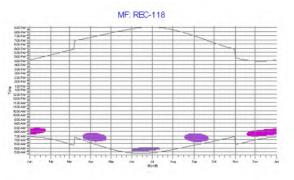
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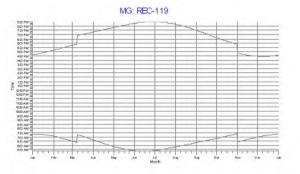


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

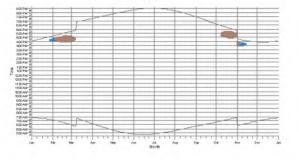
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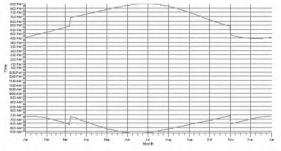




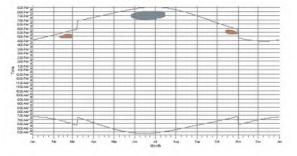
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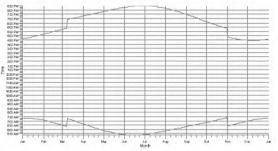










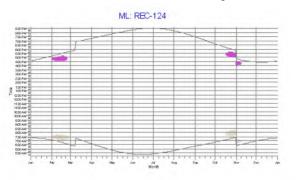


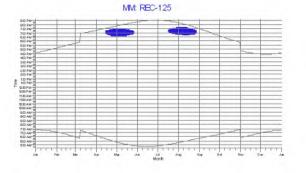
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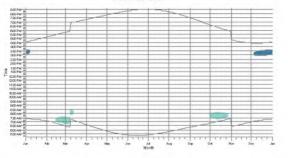
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

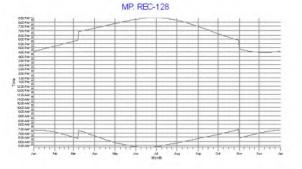






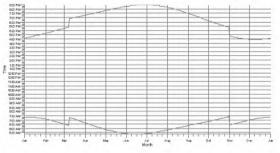




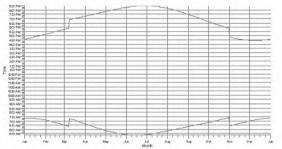


WTGs 35: L60 36: L61 37: L62 48: L76 49: L77

MO: REC-127



MQ: REC-129

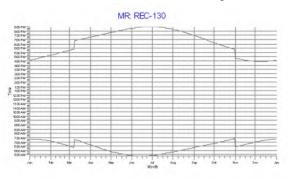


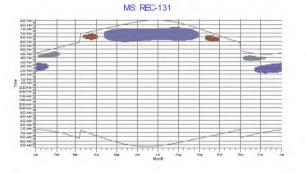
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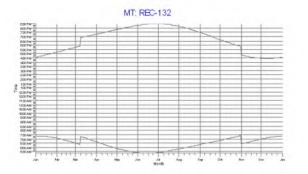
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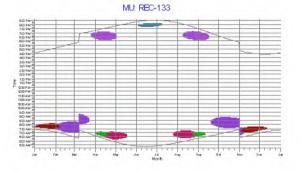
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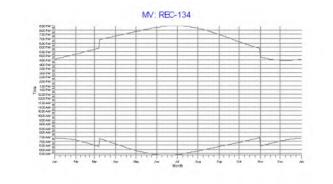
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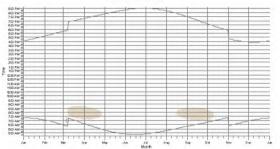


38: L63

WTGs

37: L62

MW: REC-135



50: L79

40: L65

43: L69

44: L70

46: L73

49: L77

51.180

54: L86

69: L113

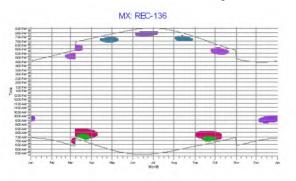


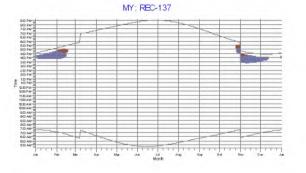
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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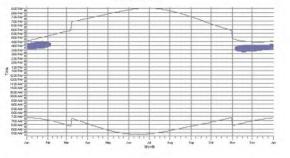
SHADOW - Calendar, graphical

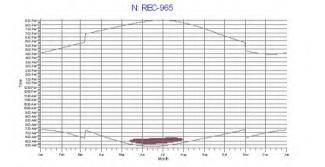
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)



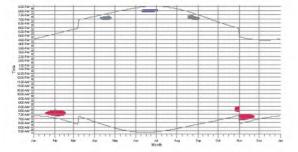






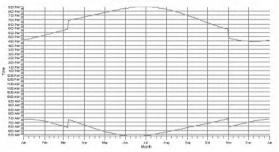








NB: REC-140

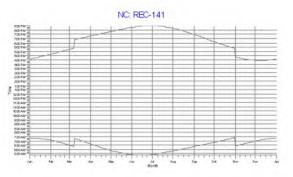


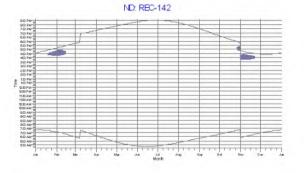
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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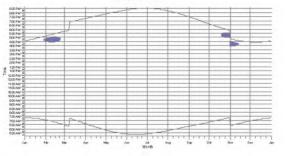
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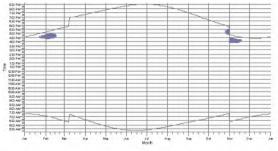




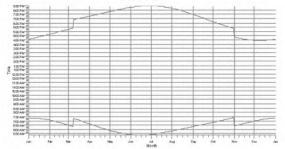




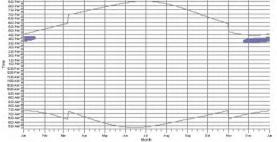








NH: REC-146



WTGs

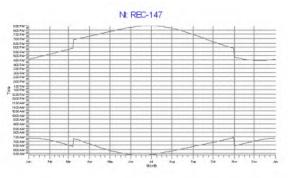
69: L113

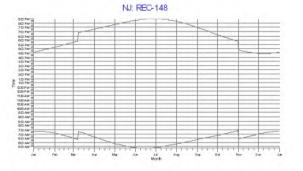
windPRO

Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

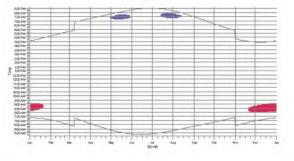
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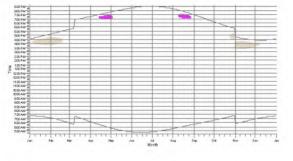




NK: REC-149

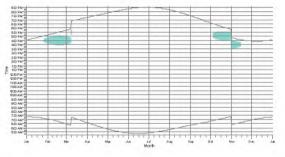




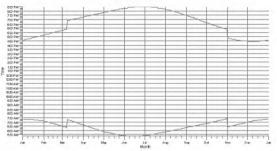


WTGs					
	44: L70	47: L74	48: L76	49: L77	53: L82

NL: REC-150





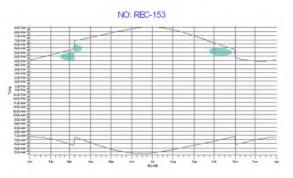


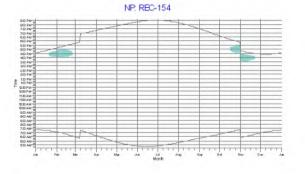
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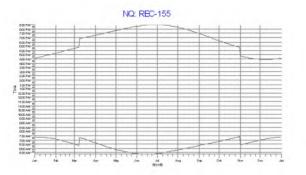
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SHADOW - Calendar, graphical

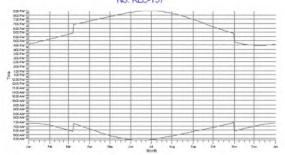
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)



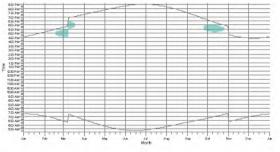




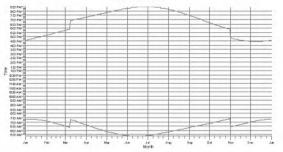




NR: REC-156



NT: REC-158



windPRO

WTGs

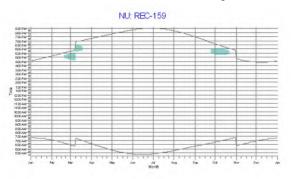
48: L76

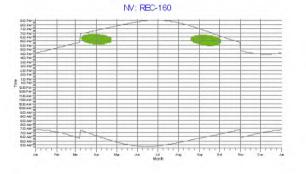
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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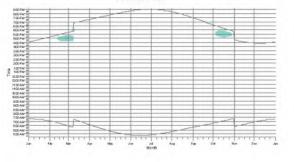
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

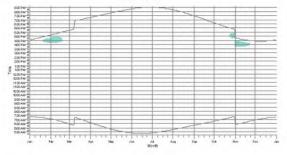








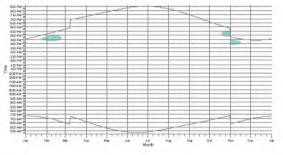




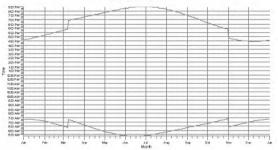
52: L81

WTGs 48: L76

NX: REC-162





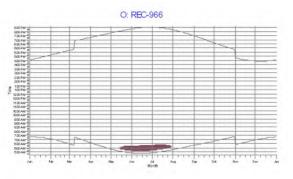


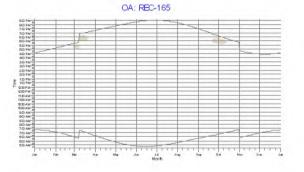
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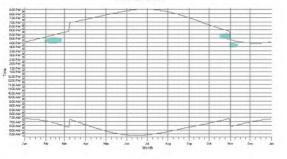
SHADOW - Calendar, graphical



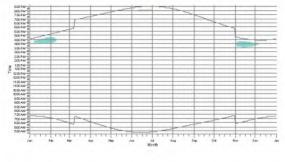






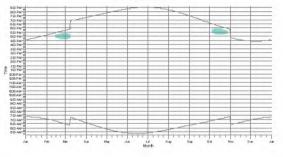




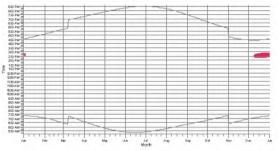


WTGs

OC: REC-167





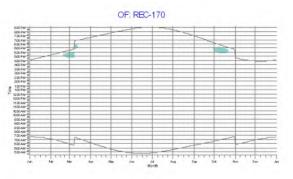


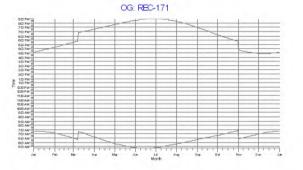
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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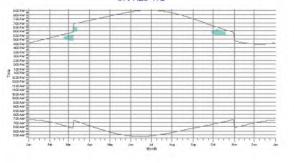
SHADOW - Calendar, graphical

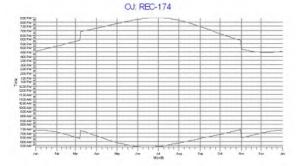




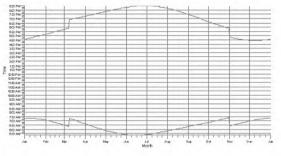


OH REC-172

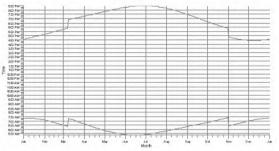




OI: REC-173







48: L76

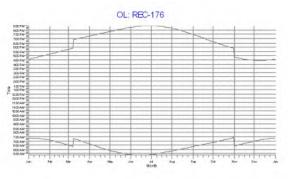


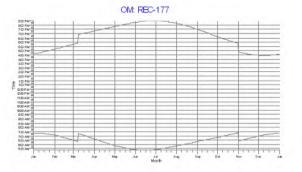
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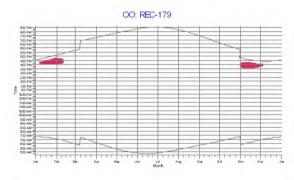
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SHADOW - Calendar, graphical

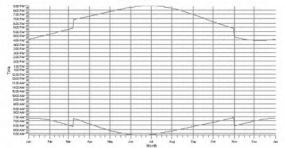




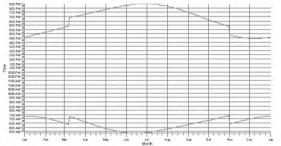








OQ: REC-181



WTGs

53: L82

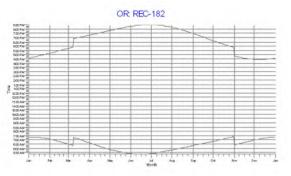


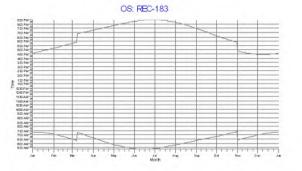
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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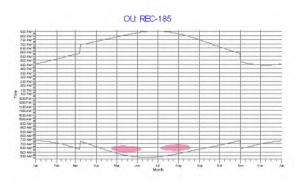
SHADOW - Calendar, graphical

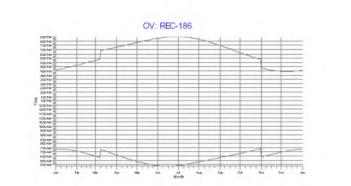




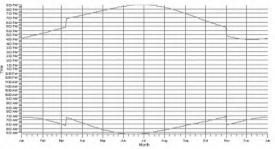


CT: REC-184









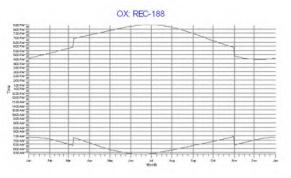
windPRO

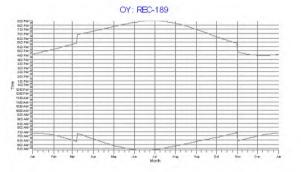
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

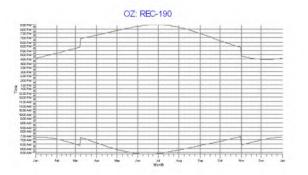
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SHADOW - Calendar, graphical

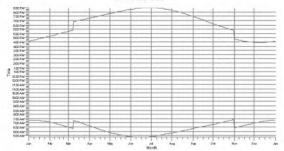




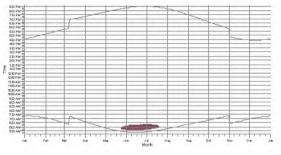




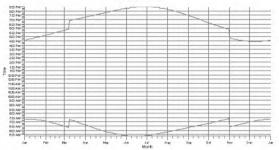




P: REC-967







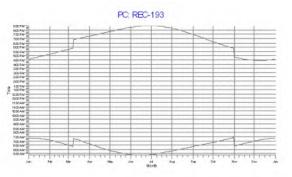
79: K13

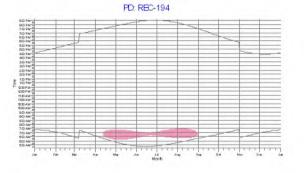
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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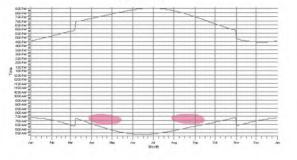
SHADOW - Calendar, graphical

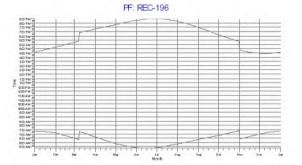
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)



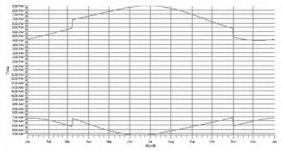


PE REC-195



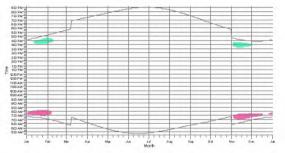






WTGs 56: L89 59: L97 60: L98

PH: REC-198

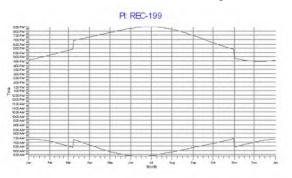


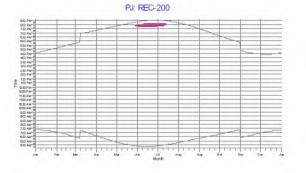
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

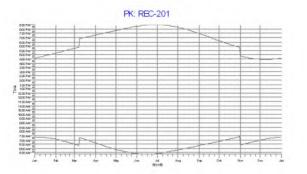
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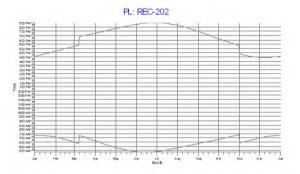
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

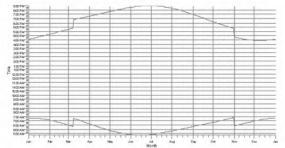




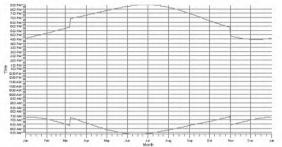








PN: REC-204



WTGs

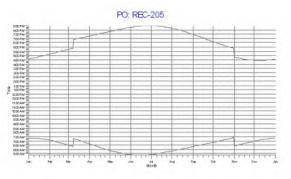
57: L91

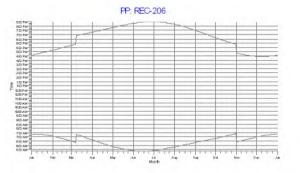


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

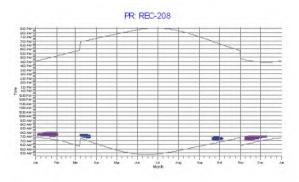
Licensed user: Burns & McDonnell Engineering Company Inc. 9400 Ward Parkway US-KANSAS CITY, MO 64114 (816) 333 9400 Anna Jordan / anna.jordan@1898andco.com Calculated: 1/30/2024 2:50 PM/3.0.654



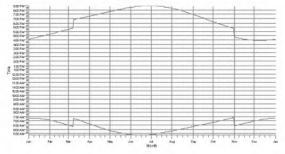




PC: REC-207

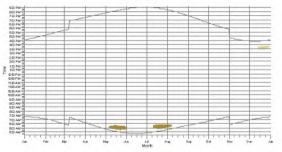








PT: REC-210

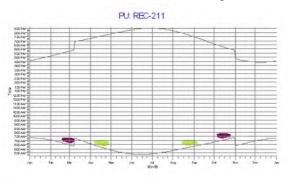


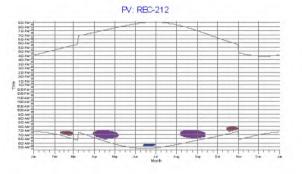
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

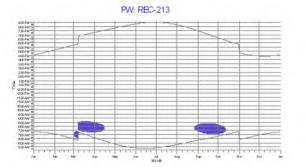
Licensed user: Burns & McDonnell Engineering Company Inc. 9400 Ward Parkway US-KANSAS CITY, MO 64114 (816) 333 9400 Anna Jordan / anna.jordan@1898andco.com calculated: 1/30/2024 2:50 PM/3.0.654

SHADOW - Calendar, graphical

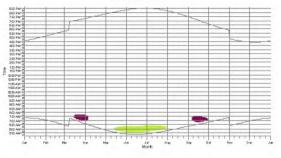
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

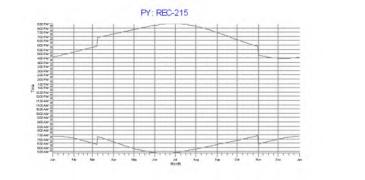




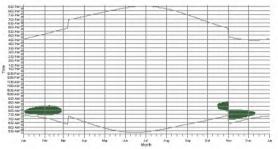














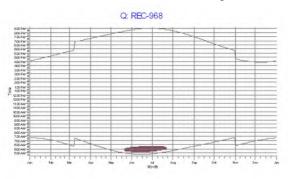
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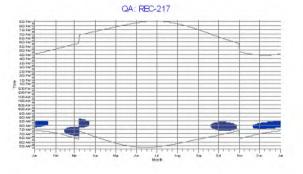
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

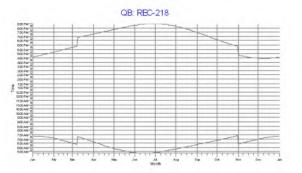
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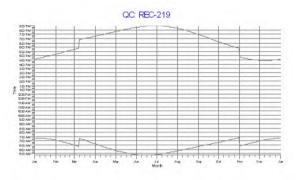
SHADOW - Calendar, graphical

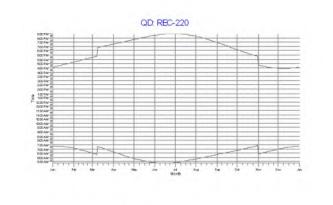
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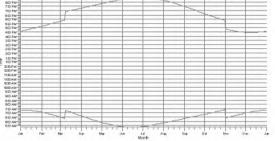










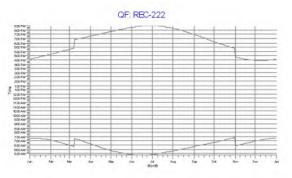


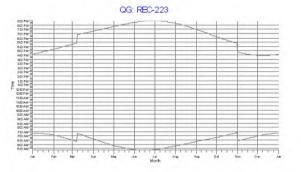


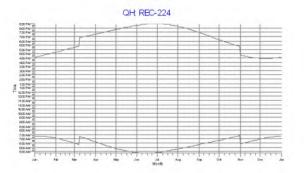
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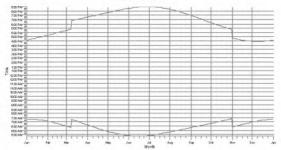




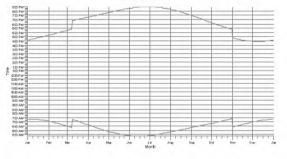




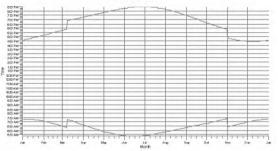




QI: REC-225







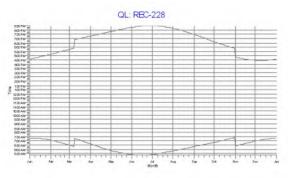


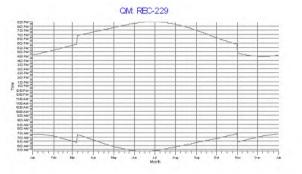
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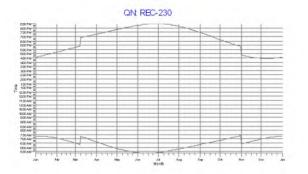
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SHADOW - Calendar, graphical

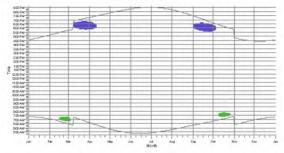
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)





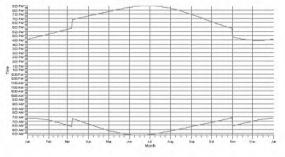




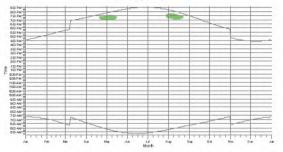




QO: REC-231



QQ: REC-233

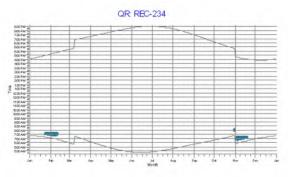


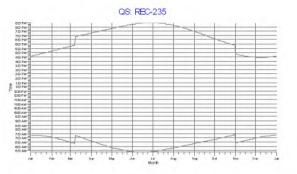
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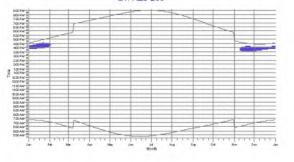
SHADOW - Calendar, graphical



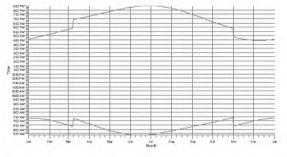




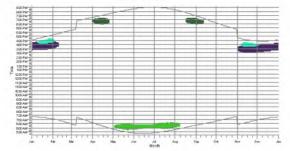
QT: REC-236



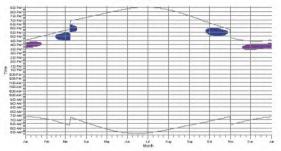
QU: REC-237







QW: REC-239





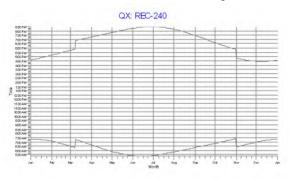
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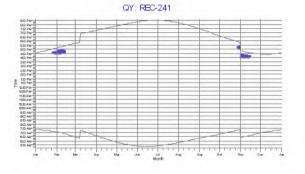
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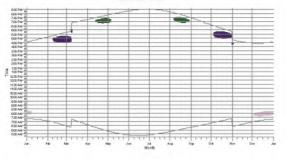
SHADOW - Calendar, graphical

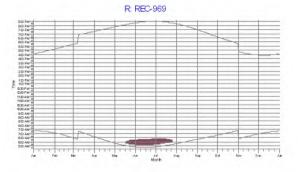
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)



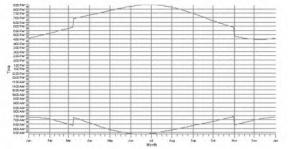






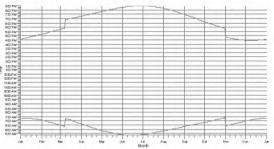






WTGs				
73: K6	74: K7	79: K13	80: K20	136: K206



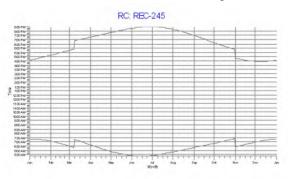


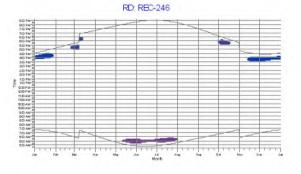
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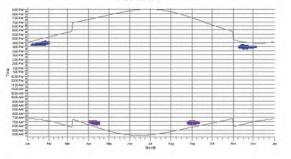
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

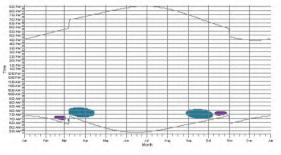




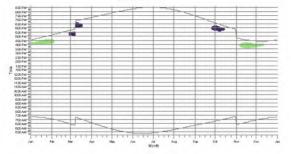




RF: REC-248

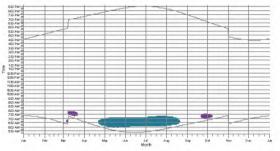










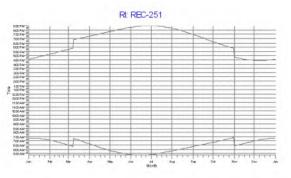


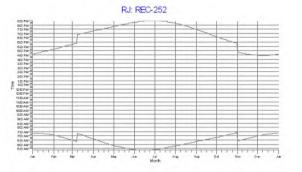


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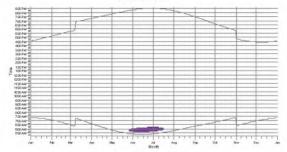




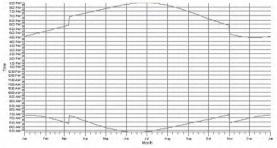


RK: REC-253

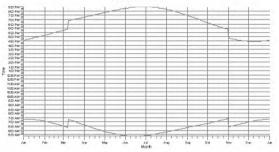




RL: REC-254





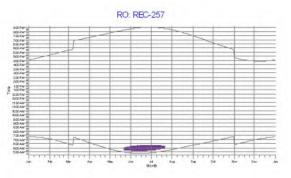


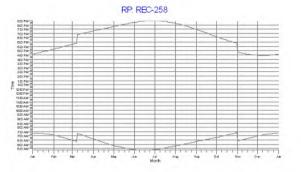


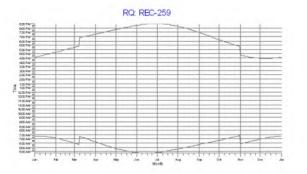
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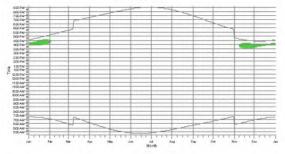






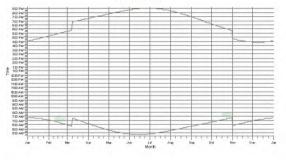




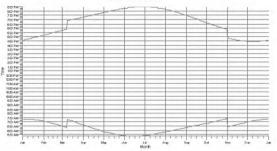




RR: REC-260



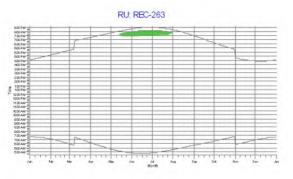


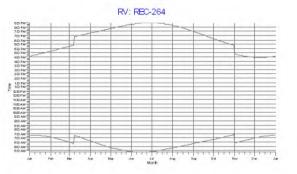


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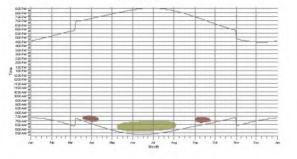
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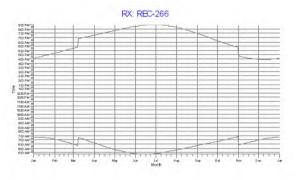




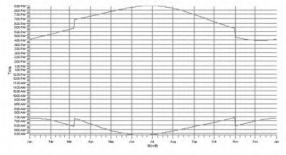


RW: REC-265



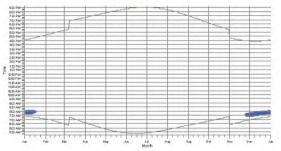








RZ: REC-268

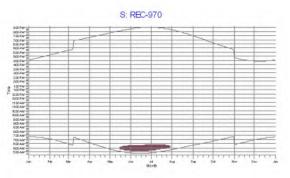


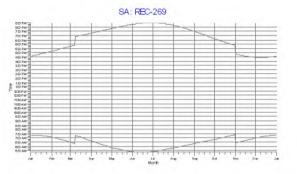
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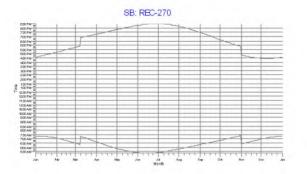
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SHADOW - Calendar, graphical

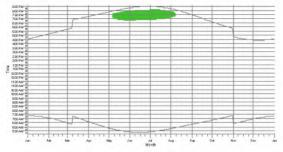








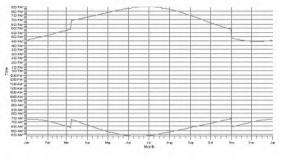




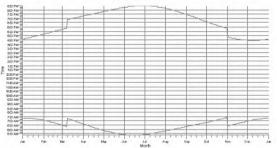
131: K18

WTGs 79: K13

SC: REC-271





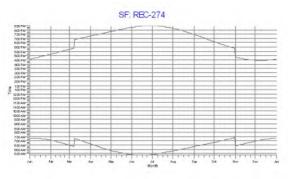


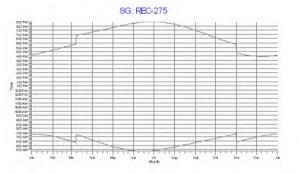


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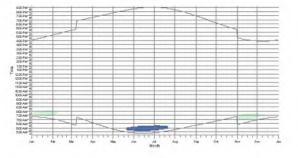
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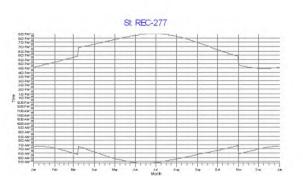




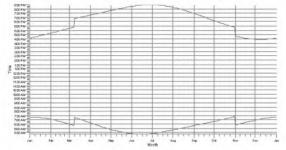


SH: REC-276



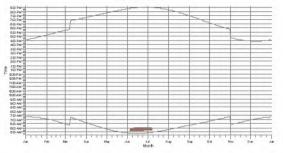








SK: REC-279

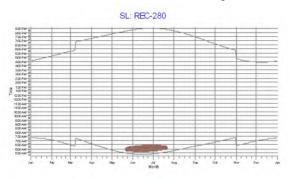


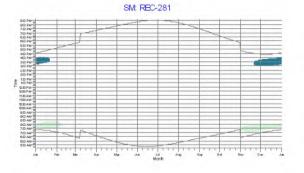
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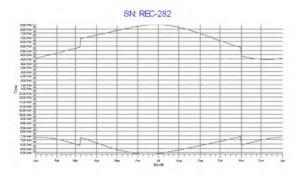
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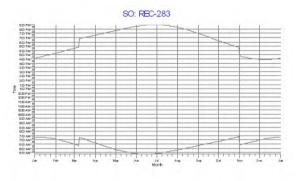
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

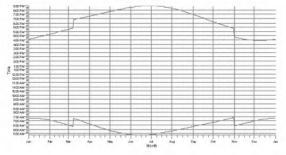






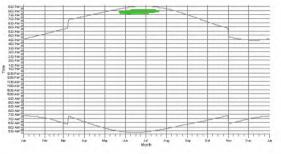












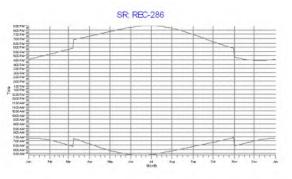
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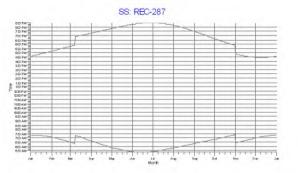
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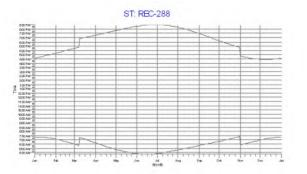
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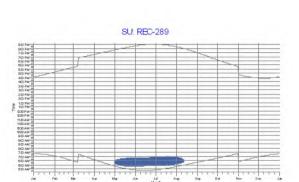
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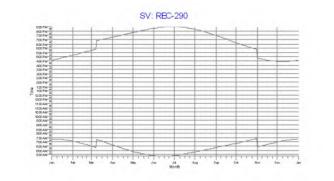




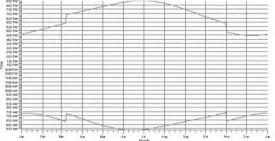








SW: REC-291



WTGs

83: K29

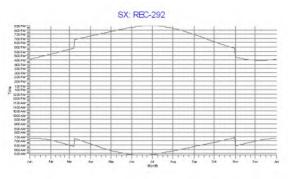
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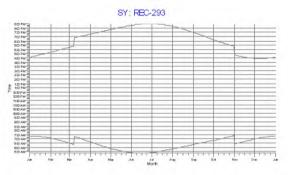
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect. Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

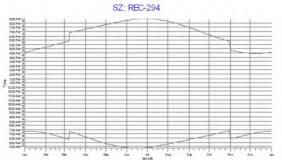
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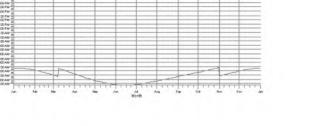
SHADOW - Calendar, graphical

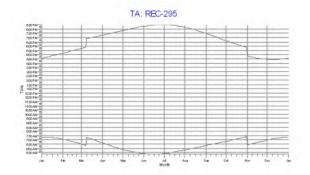








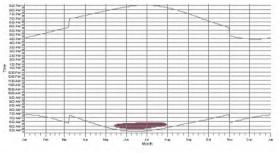




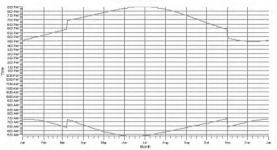
WTGs

79: K13

T: REC-971







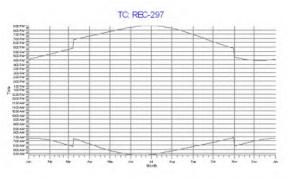


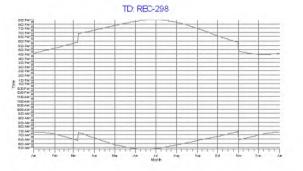
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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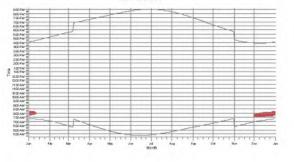
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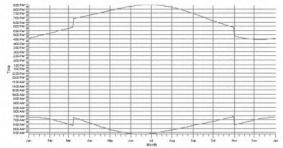




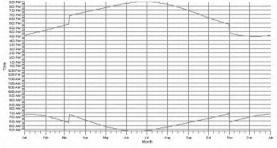
TE: REC-299



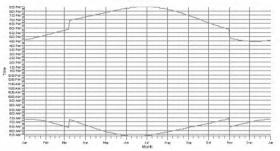




TF: REC-300







WTGs

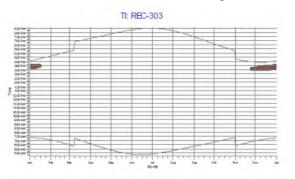
84: K32

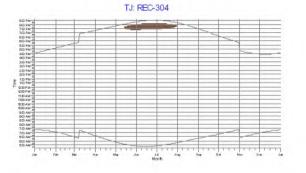
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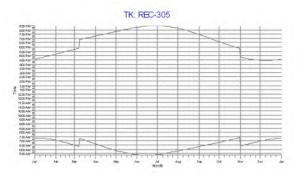
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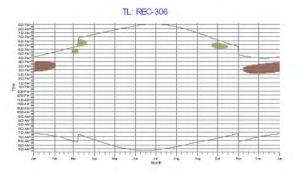
SHADOW - Calendar, graphical

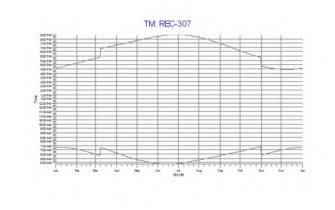
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)





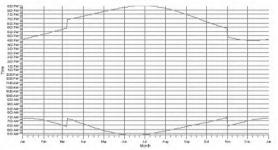






WTGs 82: K24 110: K90 129: K500

TN: REC-308



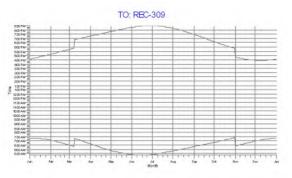


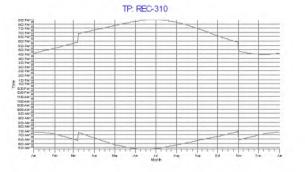
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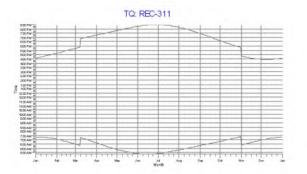
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SHADOW - Calendar, graphical

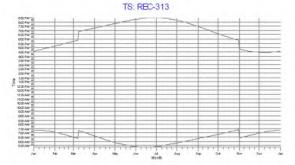




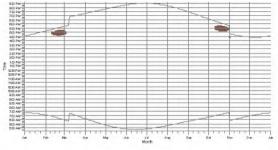




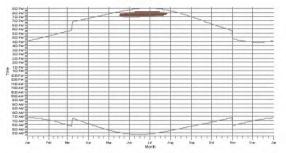




TR: REC-312



TT: REC-314

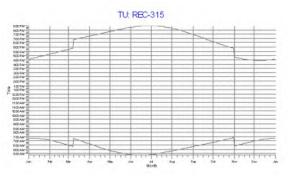


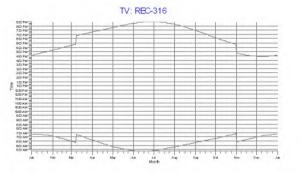
WTGs

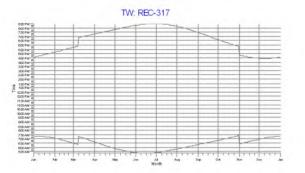
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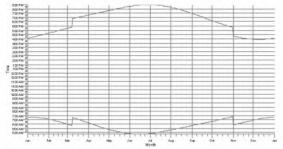




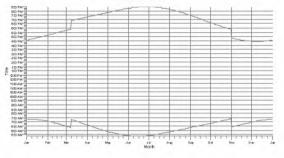




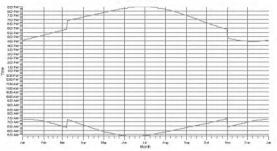




TX: REC-318







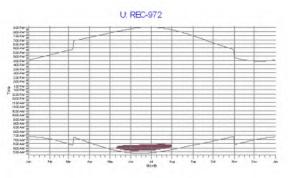


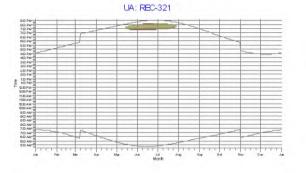
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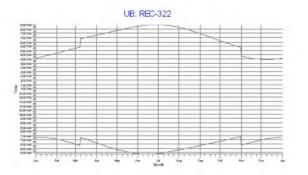
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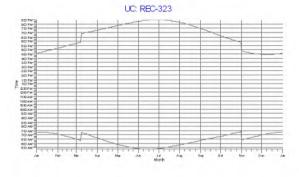
SHADOW - Calendar, graphical

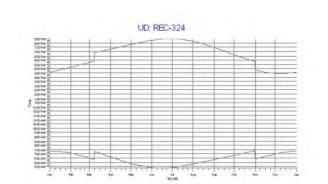




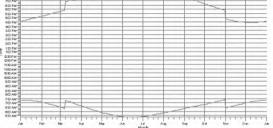








800 P1 7:30 P1



UE REC-325

WTGs

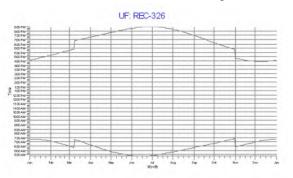
79: K13 110: K90

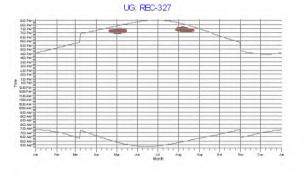
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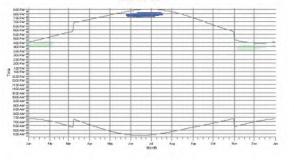
SHADOW - Calendar, graphical

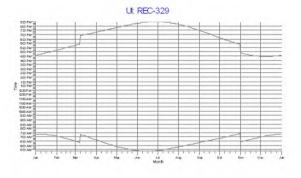
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)



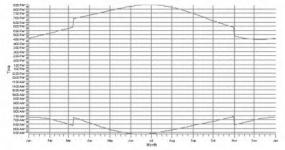


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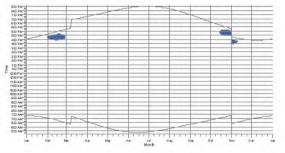






WTGs 83: K29 110: K90 125: K28

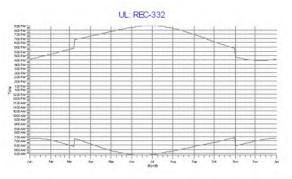
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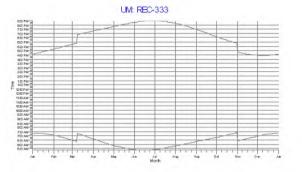


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

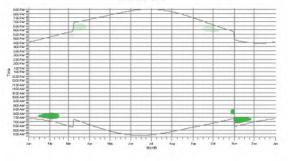
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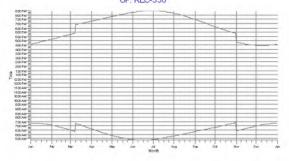




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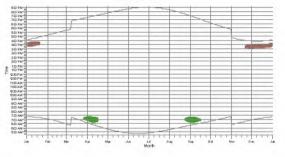




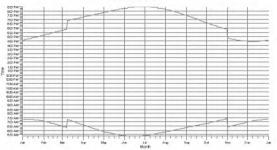




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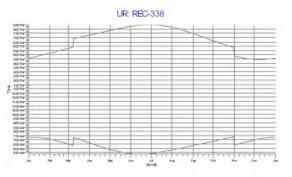


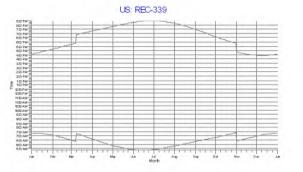
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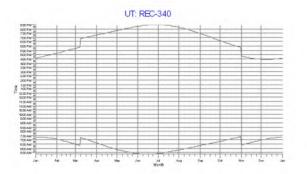
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SHADOW - Calendar, graphical

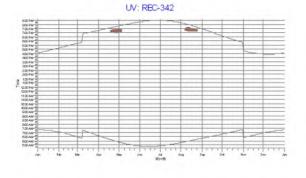








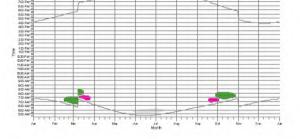




WTGs

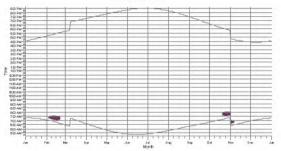
86: K36

110: K90



UU: REC-341





111: K91

126: K109

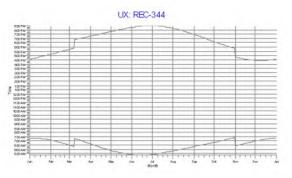
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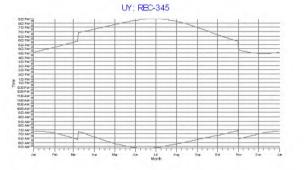
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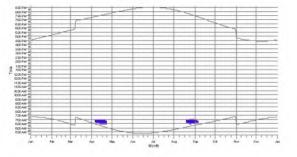
SHADOW - Calendar, graphical





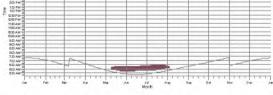


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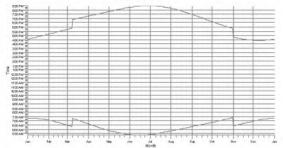




V: REC-973

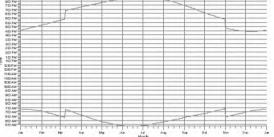






127: K110

VB: REC-348



WTGs

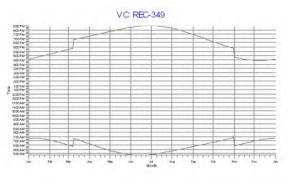


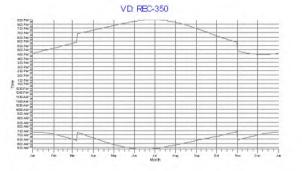
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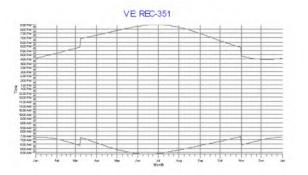
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SHADOW - Calendar, graphical

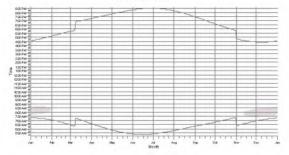




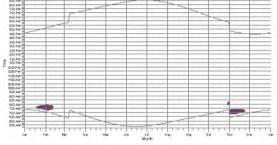




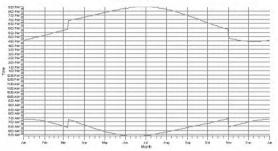




VF: REC-352







Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect. Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

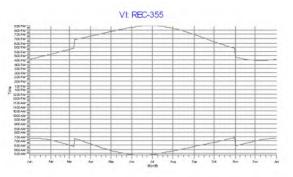
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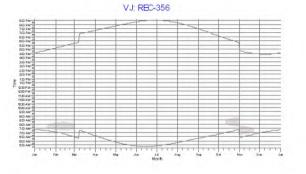
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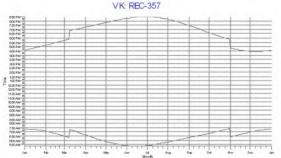
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SHADOW - Calendar, graphical

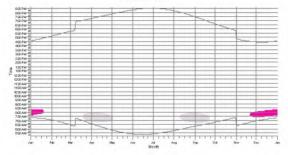
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)







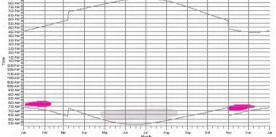




132: K38

WTGs

86: K36



VN: REC-360

VK: REC-357

Jil Mon

VL: REC-358

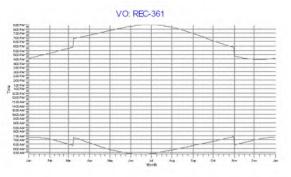
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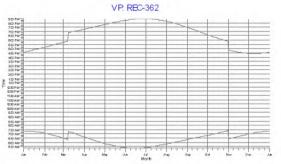
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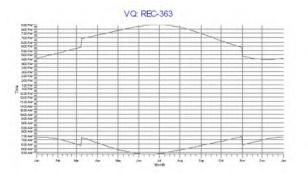
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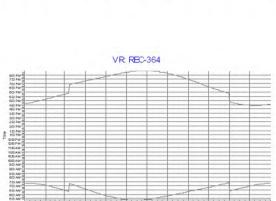
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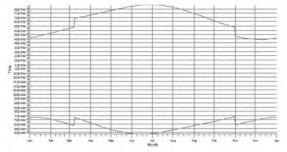










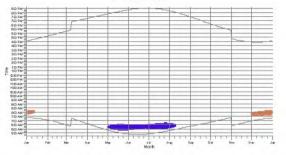


WTGs

112: K92 127: K110

VT: REC-366

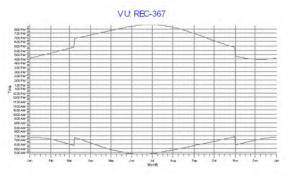
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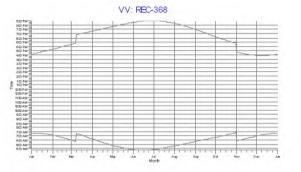


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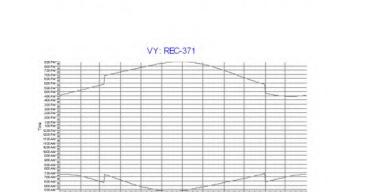
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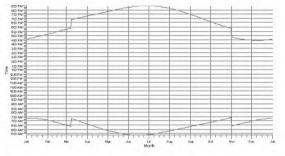




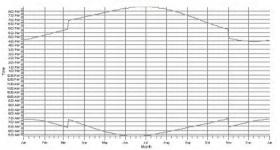
VW: REC-369



VX: REC-370



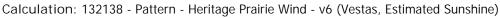


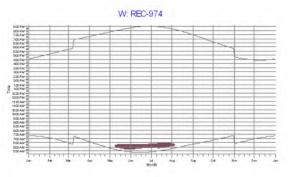


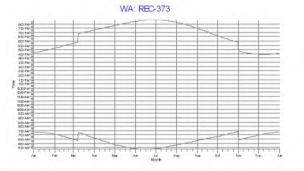


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

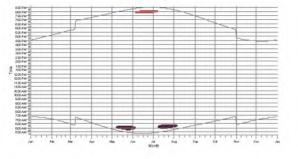
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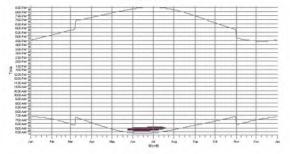




WB: REC-374

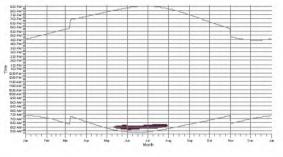




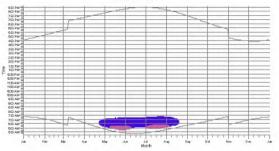


WTGs					
	79: K13	84: K32	88: K42	127: K110	134: K204

WC: REC-375







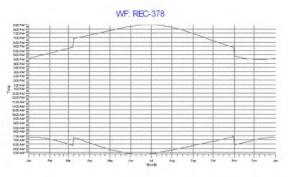


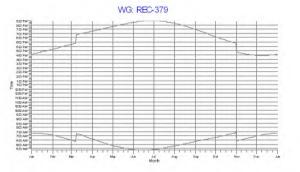
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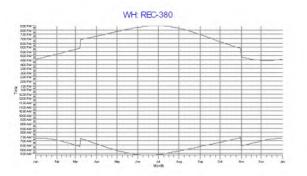
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SHADOW - Calendar, graphical







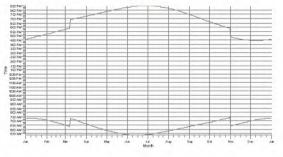




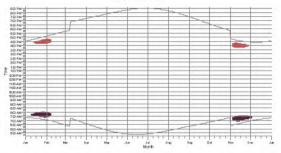




WI: REC-381





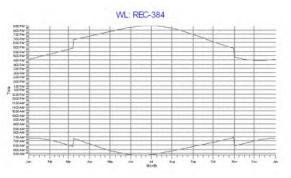


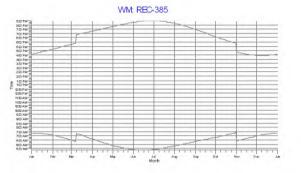
windPRO

Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

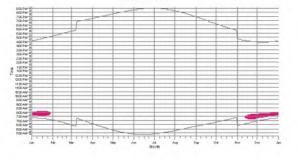
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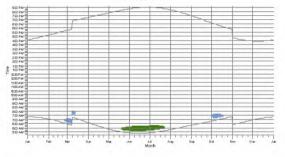




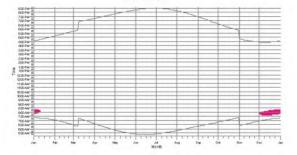
WN: REC-386





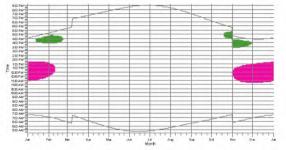








WQ: REC-389



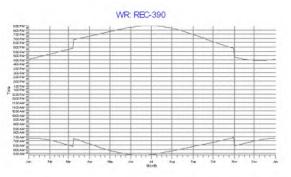


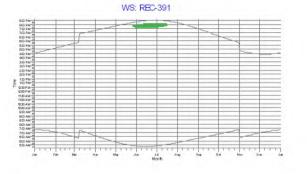
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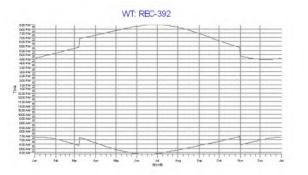
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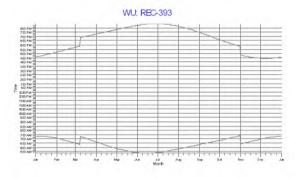
SHADOW - Calendar, graphical

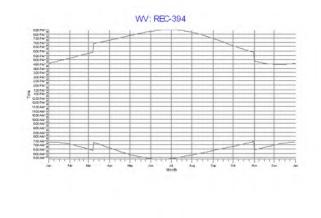












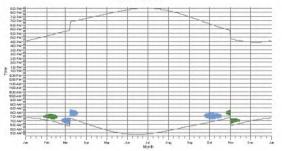
91: K47

WTGs

85: K34

90: K46

WW: REC-395





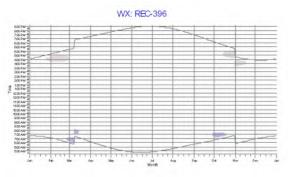
windPRO

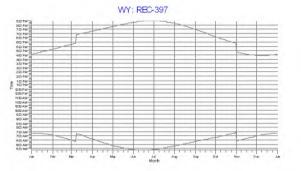
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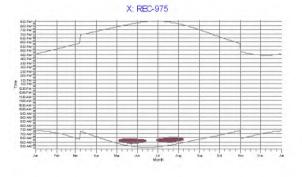
SHADOW - Calendar, graphical

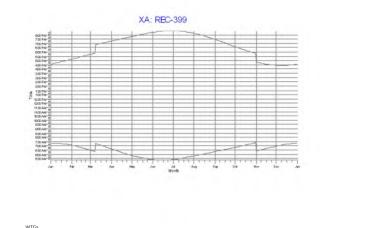






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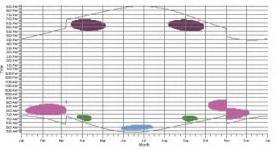




windPRO 3.0.654 by EMD International A/S, Tel. +45 96 35 44 44, www.emd.dk, windpro@emd.dk

79: K13



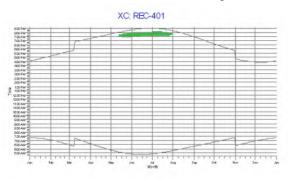


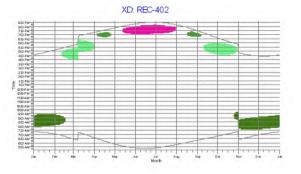
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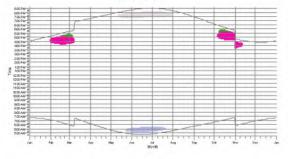
SHADOW - Calendar, graphical

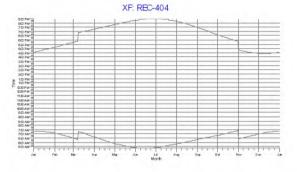
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)



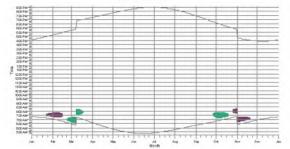


XE REC-403



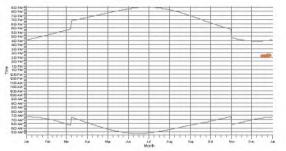






87: K503

XH: REC-406



111: K91 112: K92 115: K50 116: K51

85: K34

86: K36

92: K501

124: K107

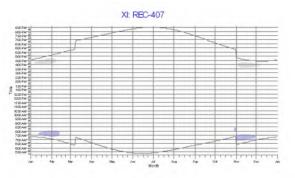


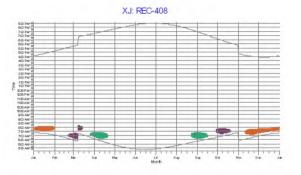
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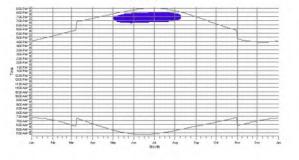
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

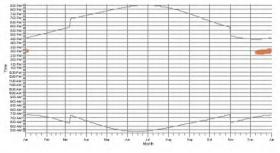




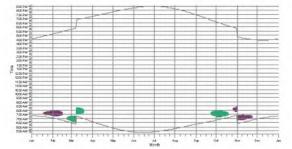
XK: REC-409



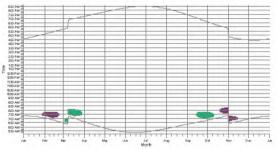














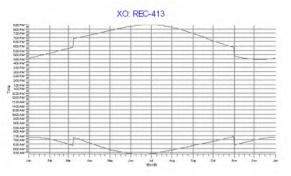


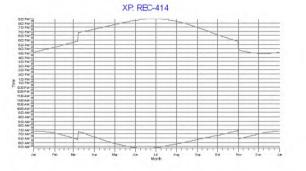
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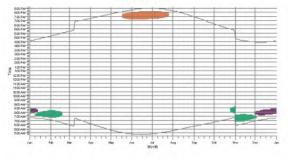
SHADOW - Calendar, graphical



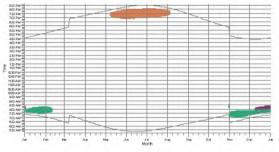




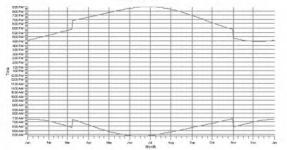
XQ: REC-415





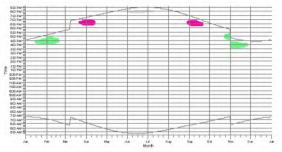








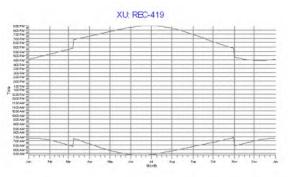
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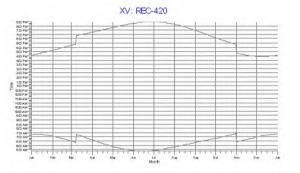


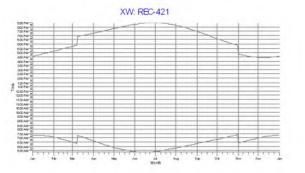
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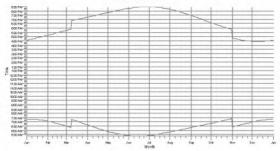




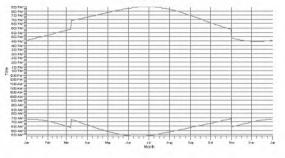




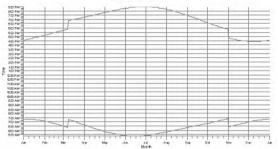




XX: REC-422







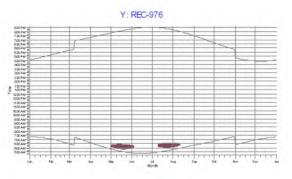


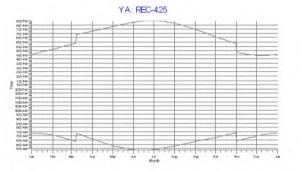
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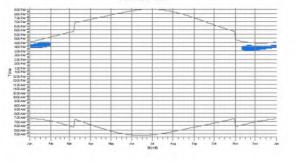
SHADOW - Calendar, graphical



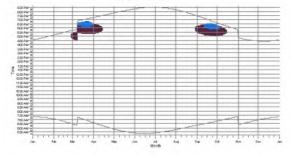




Y B: REC-426

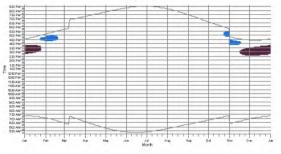


YD. REC-428

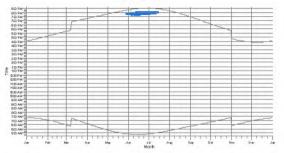


WTGs 88: K42

YC: REC-427



YE REC-429

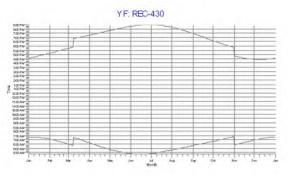


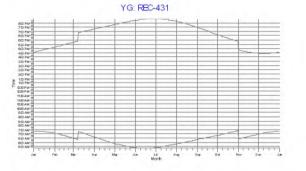
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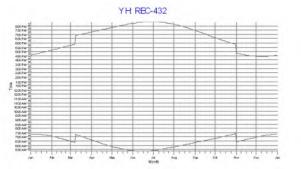
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SHADOW - Calendar, graphical

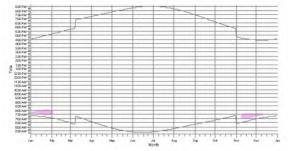








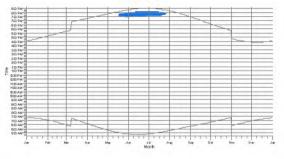




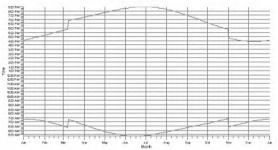
WTGs

113: K93 114: K94

YI: REC-433







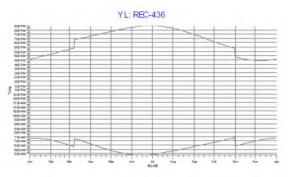


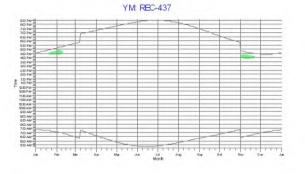
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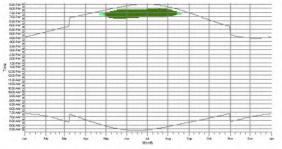
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

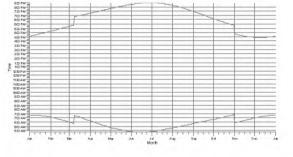






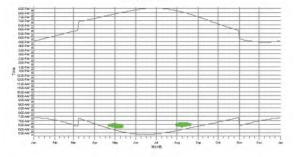






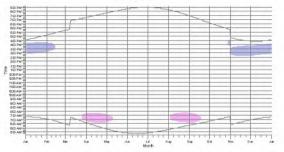
YO: REC-439

YP. REC-440



WTGs					
	87: K503	94: K55	114: K94	115: K50	124: K107

YQ: REC-441

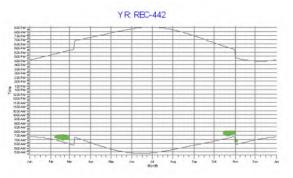


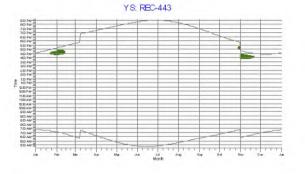
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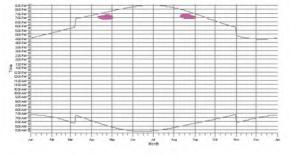
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

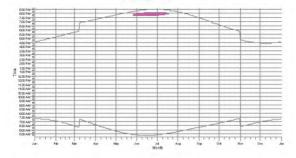






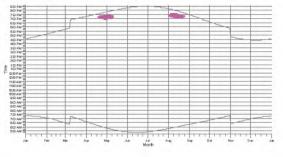


YV: REC-446

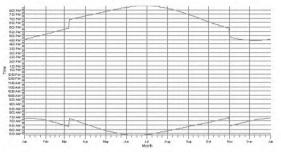




YU: REC-445





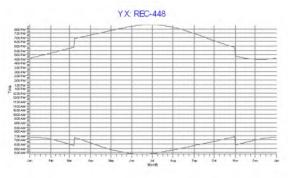


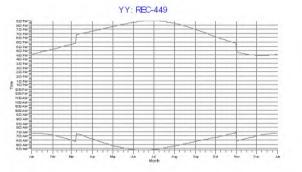
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect. Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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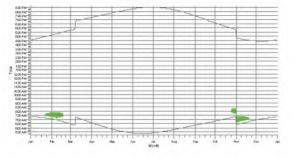
SHADOW - Calendar, graphical





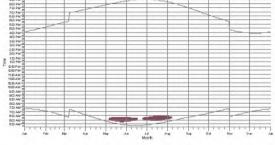


YZ: REC-450

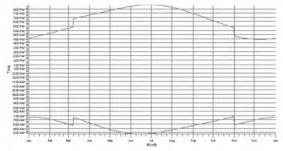




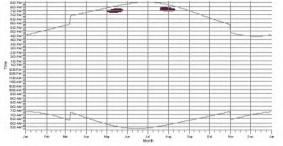
Z: REC-977







ZB: REC-452



WTGs

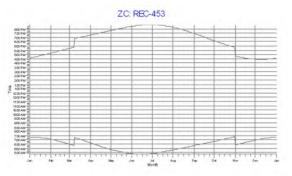
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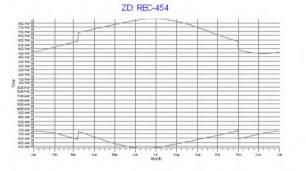
88: K42

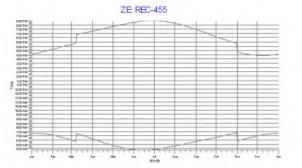
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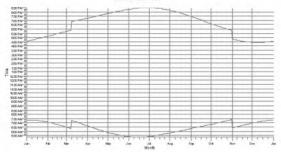




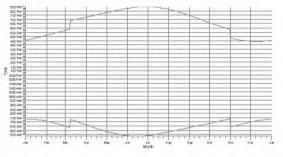




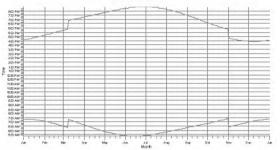




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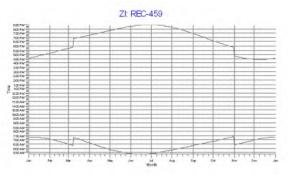


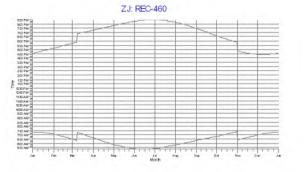


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

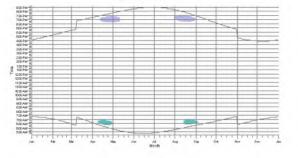
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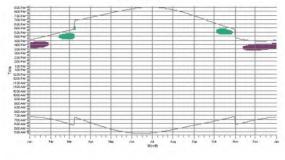




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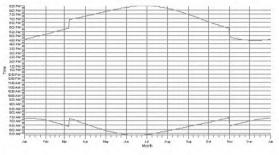




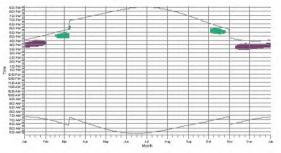




ZL: REC-462







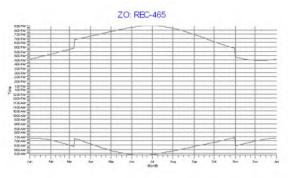


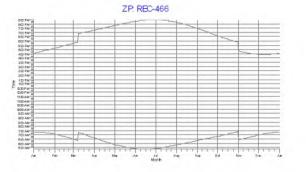
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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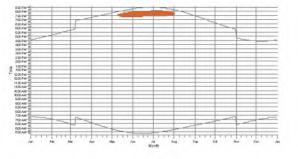
SHADOW - Calendar, graphical



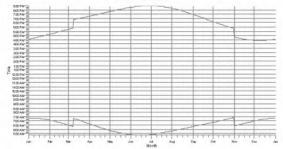




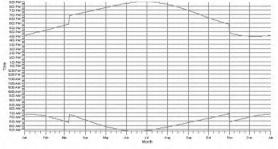
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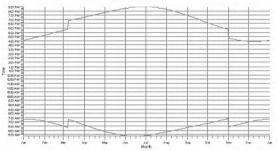




ZR: REC-468







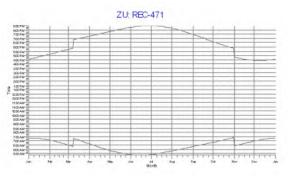
WTGs

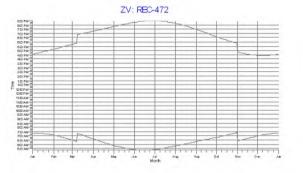


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

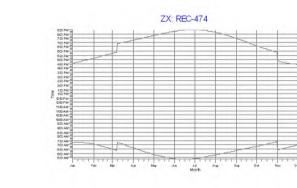
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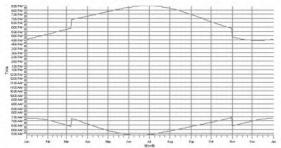




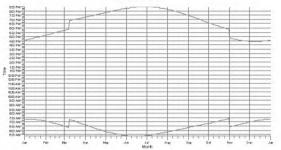
ZW: REC-473







ZZ: REC-476



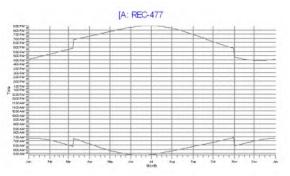


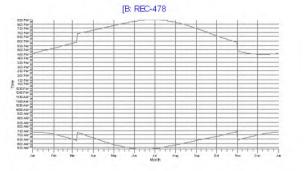
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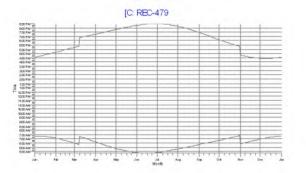
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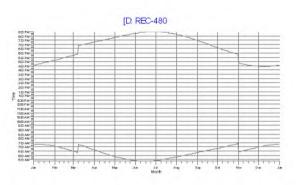
SHADOW - Calendar, graphical

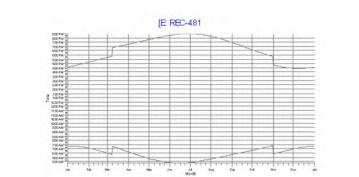




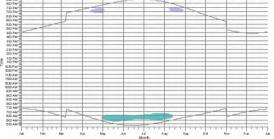












WTGs

95: K56 115: K50

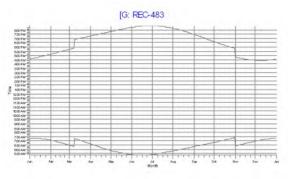
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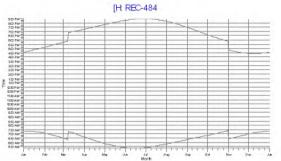
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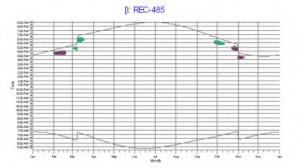
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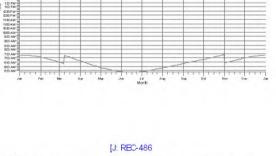
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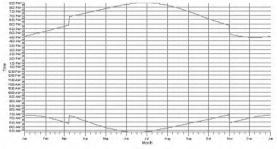




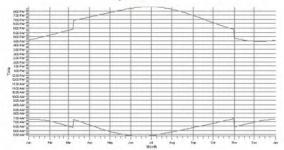




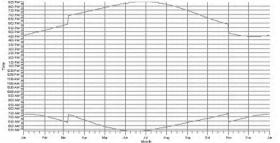








[L: REC-488



WTGs

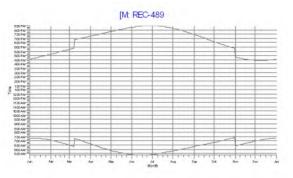
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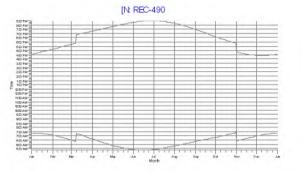
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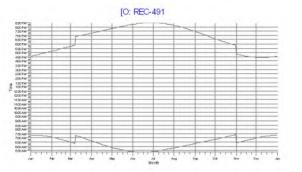
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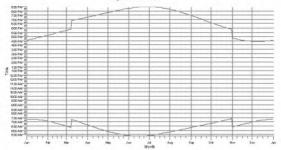




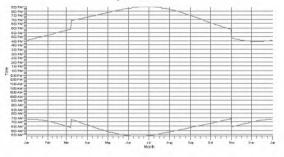




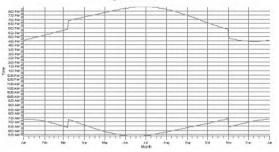




[P. REC-492







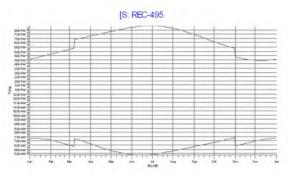


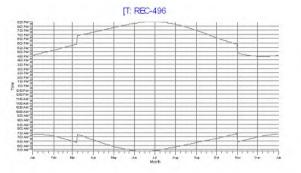
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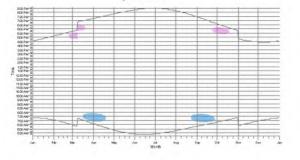
SHADOW - Calendar, graphical



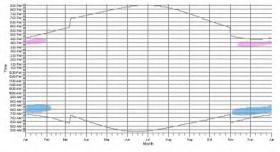




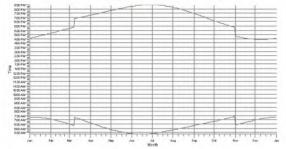
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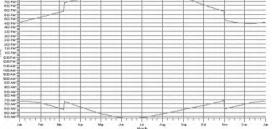








[X: REC-500



WTGs

114: K94 117: K57



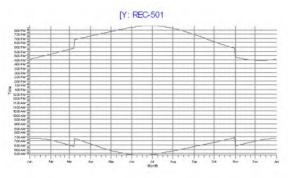


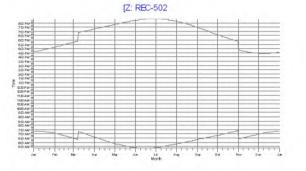
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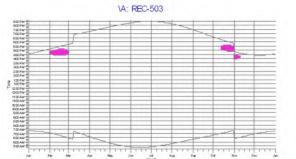
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SHADOW - Calendar, graphical



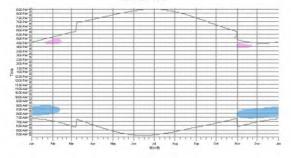






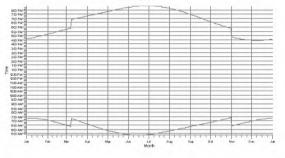




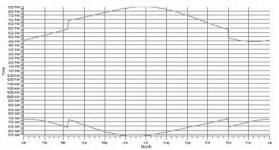


WTGs 93: K54 114: K94 117: K57

\B: REC-504







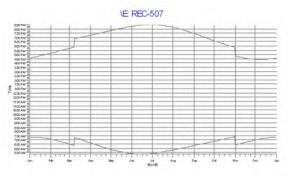
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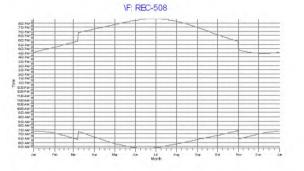
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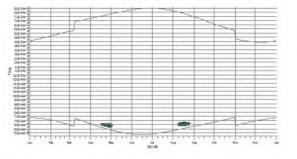
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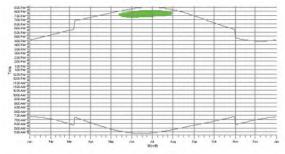




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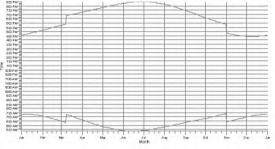




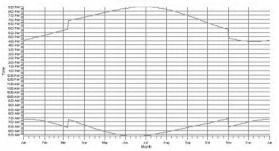


96° K60

VH REC-510







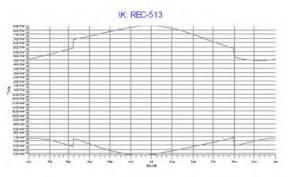
WTGs

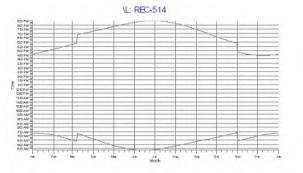
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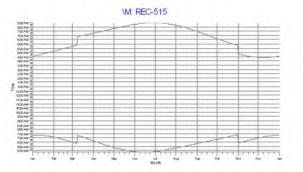
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SHADOW - Calendar, graphical

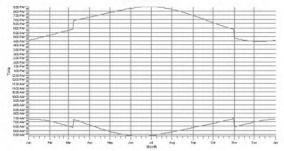




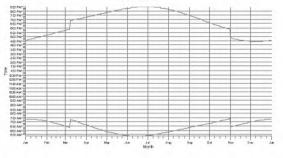




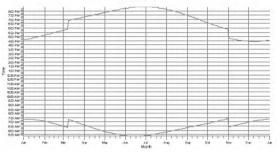




IN REC-516







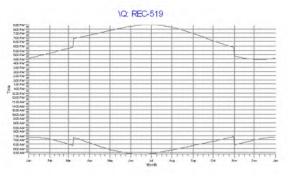


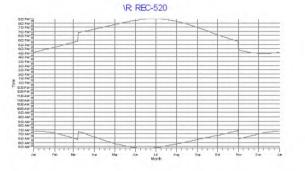
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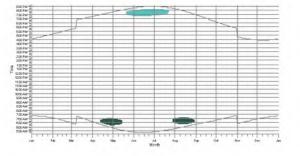
SHADOW - Calendar, graphical

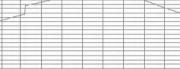




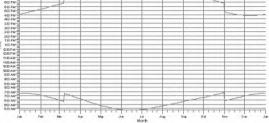


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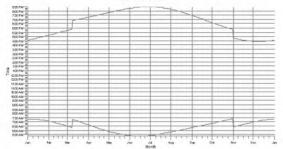




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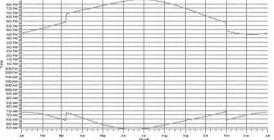






96° K60

W: REC-524



WTGs

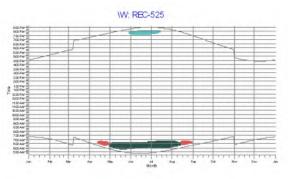


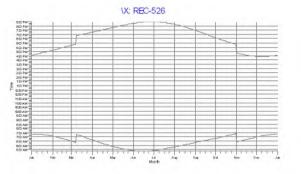
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

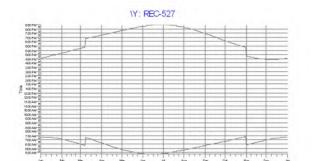
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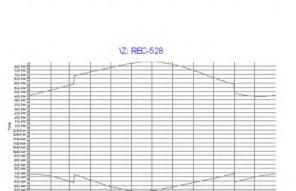
SHADOW - Calendar, graphical





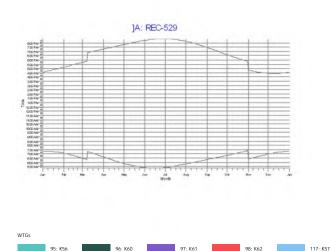




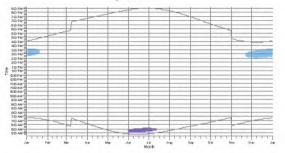




Ja Month



]B: REC-530

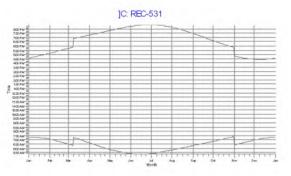


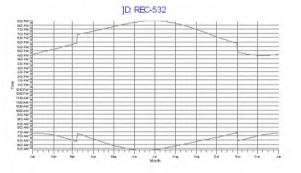
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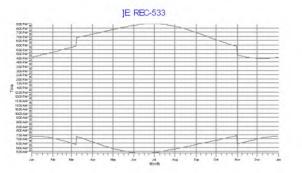
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SHADOW - Calendar, graphical

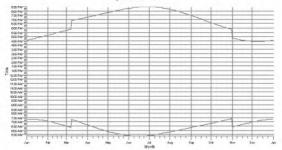




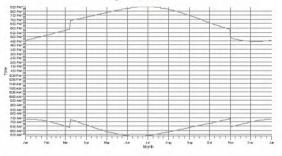




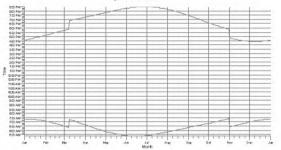




]F: REC-534



]H REC-536



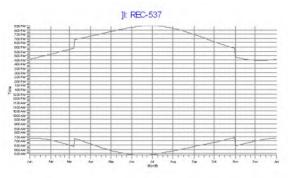


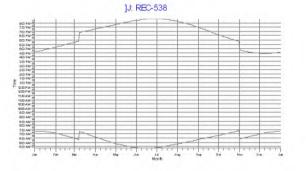
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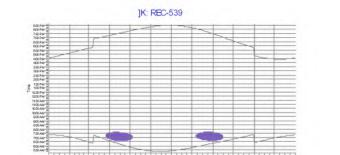
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SHADOW - Calendar, graphical

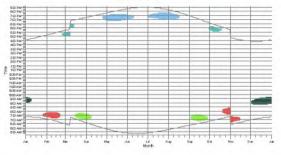




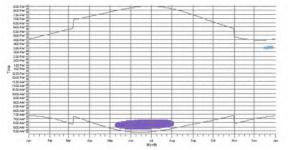






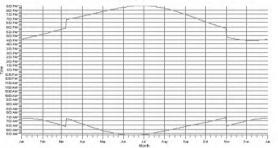






WTGs						
	95: K56	96: K60	97: K61	98: K62	117: К57	118: K98

JN: REC-542

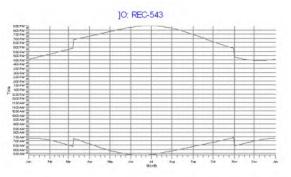


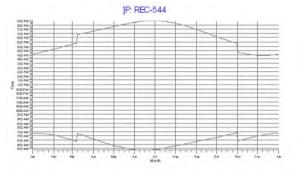
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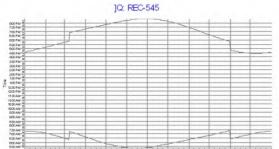
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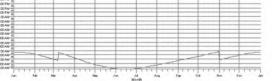
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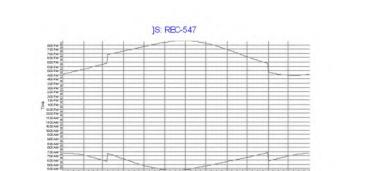






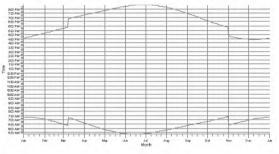




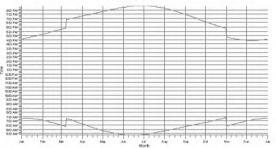


WTGs









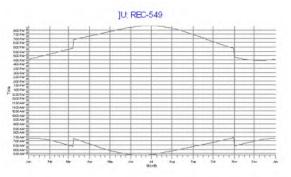


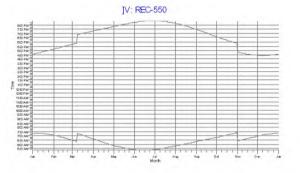
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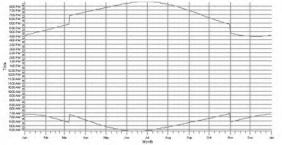
SHADOW - Calendar, graphical

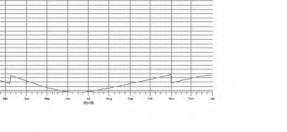


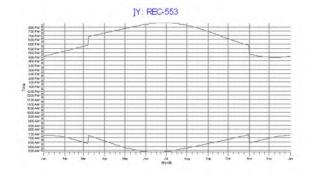




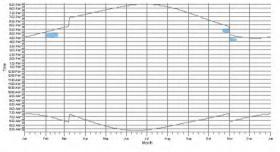




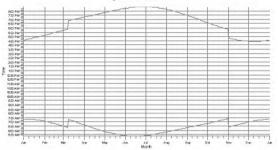




JX: REC-552







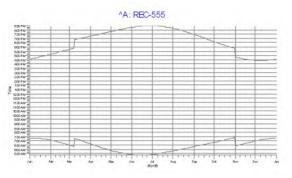


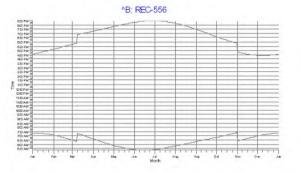
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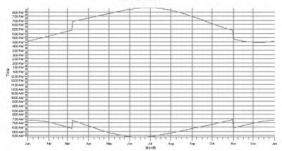
SHADOW - Calendar, graphical





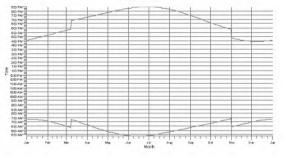




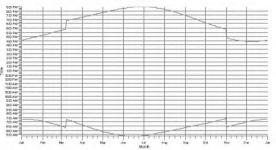


WTGs

^D: REC-558





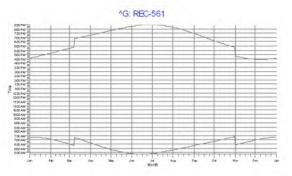


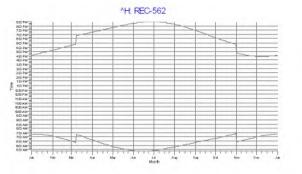
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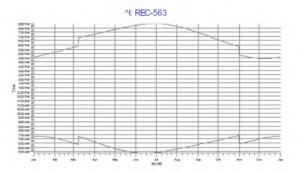
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SHADOW - Calendar, graphical

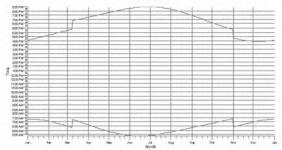




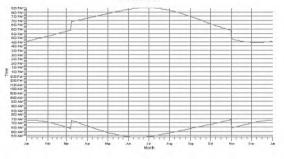




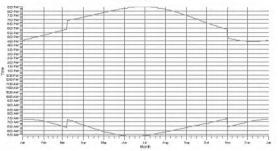




^J: REC-564







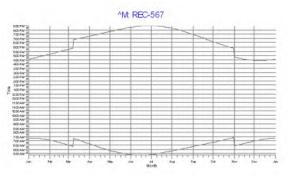


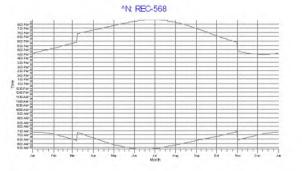
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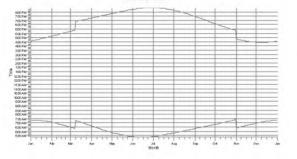
SHADOW - Calendar, graphical



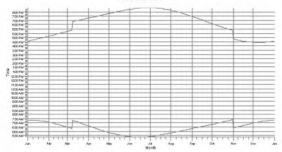




^O: REC-569

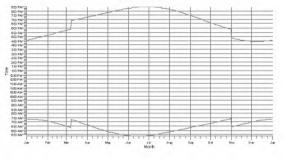




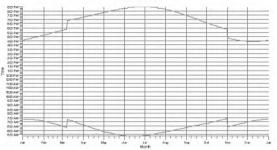


WTGs

^P: REC-570





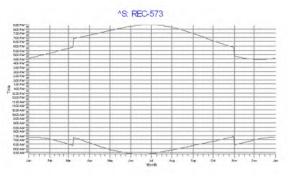


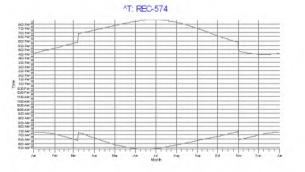
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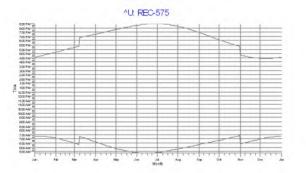
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SHADOW - Calendar, graphical

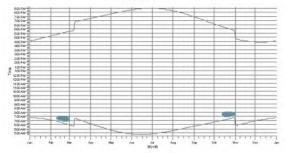




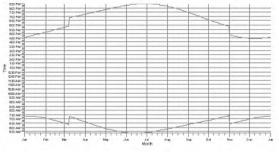




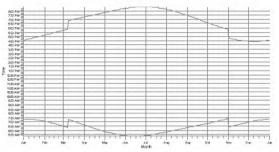




^V: REC-576





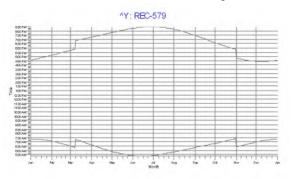


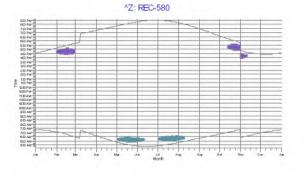
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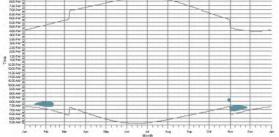
SHADOW - Calendar, graphical

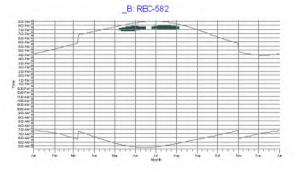
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)



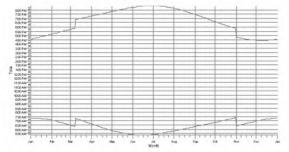










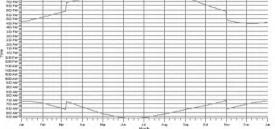


97: K61

99: K66

windPRO 3.0.654 by EMD International A/S, Tel. +45 96 35 44 44, www.emd.dk, windpro@emd.dk

_D: REC-584



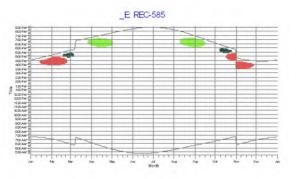
96 · K60

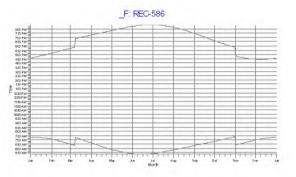
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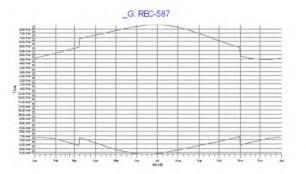
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SHADOW - Calendar, graphical

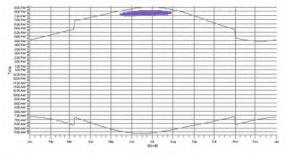
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)





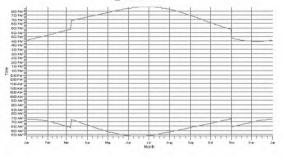




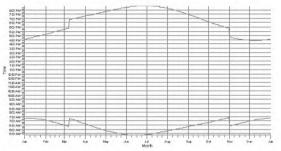




_H: REC-588





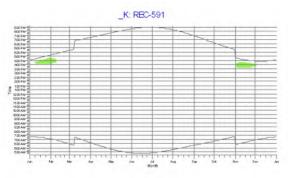


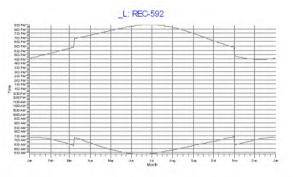
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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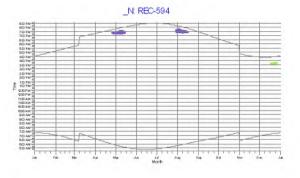
SHADOW - Calendar, graphical

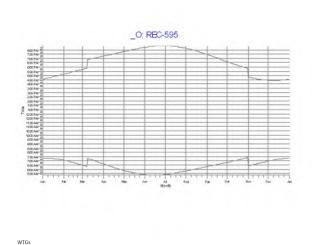






_Mr REC-593

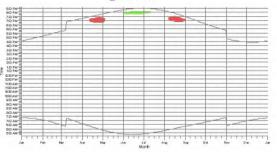




98: K62

97: K61





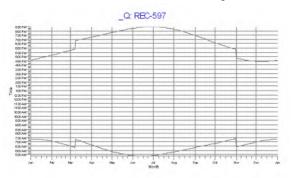
118: K98

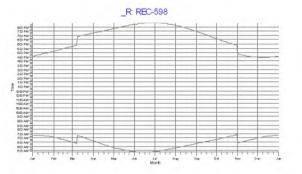
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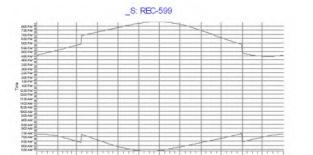
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SHADOW - Calendar, graphical

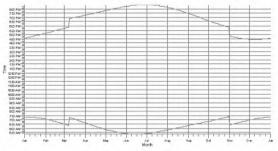
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)



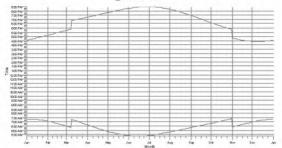




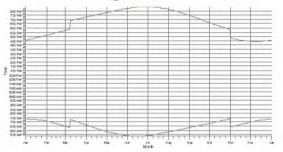








_V: REC-602

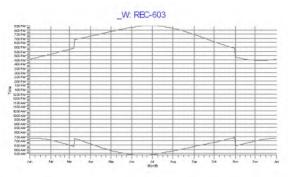


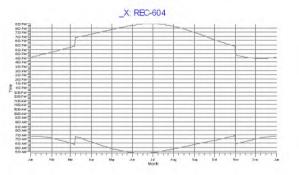
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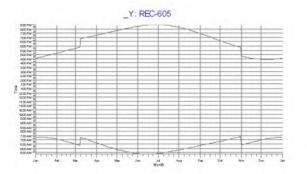
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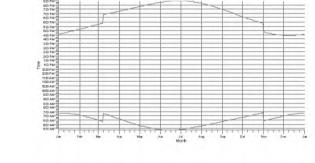
SHADOW - Calendar, graphical





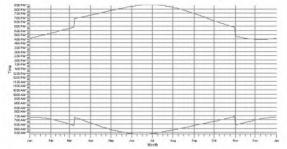




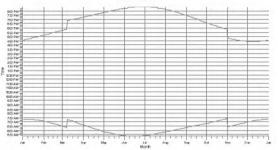


Z: REC-606









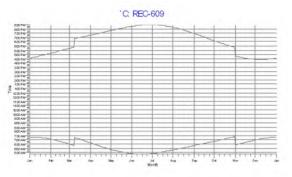


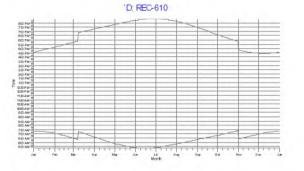
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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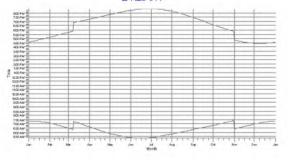
SHADOW - Calendar, graphical



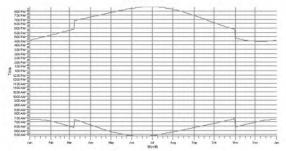




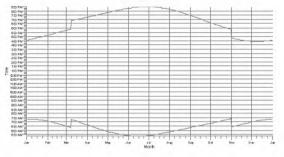
"E REC-611



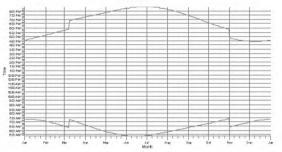
'G: REC-613



'F: REC-612



'H: REC-614



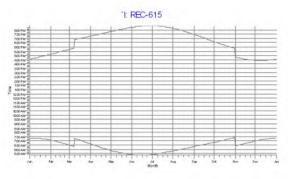


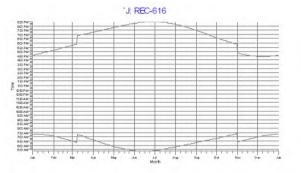
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

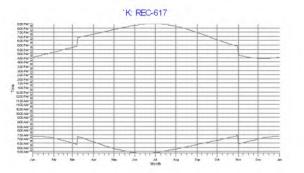
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SHADOW - Calendar, graphical

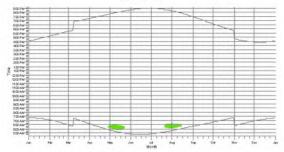




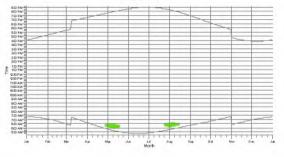




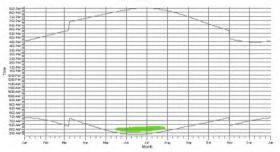




'L: REC-618





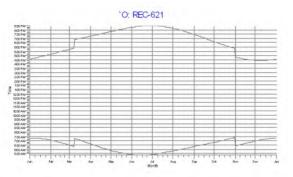


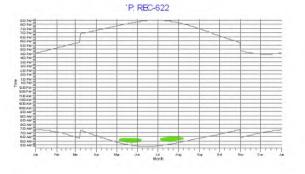
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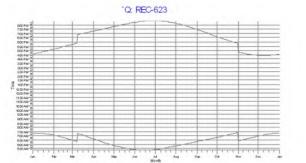
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SHADOW - Calendar, graphical

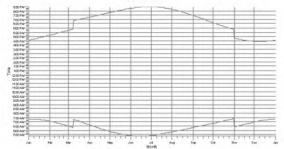
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)



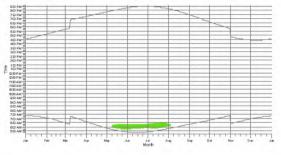




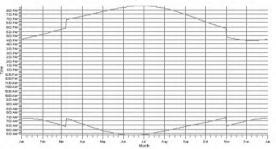




"R: REC-624







WTGs

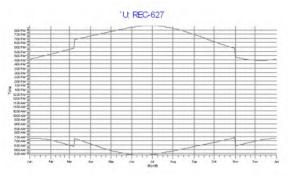


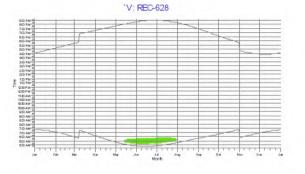
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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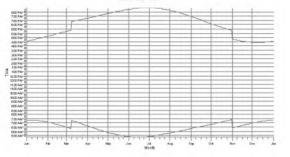
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

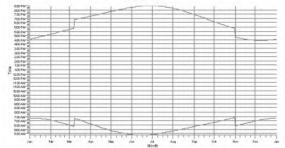




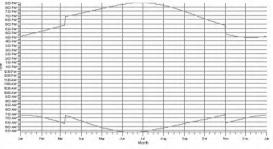




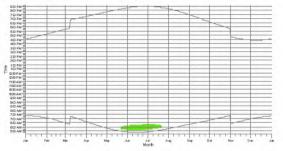




'X: REC-630







WTGs

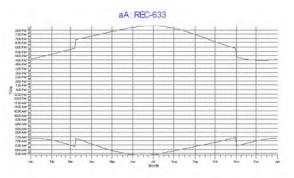
119: К99

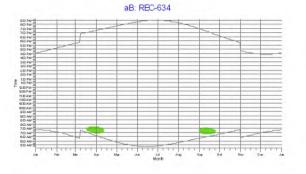
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

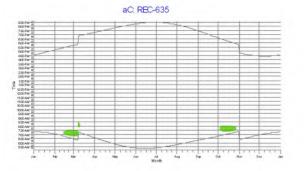
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SHADOW - Calendar, graphical

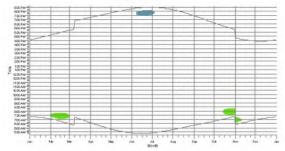
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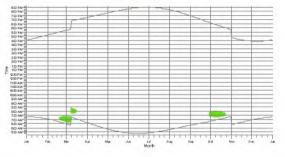




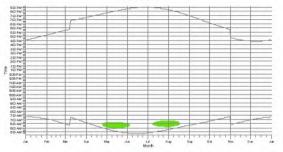




aD: REC-636







WTGs

99: K66

Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

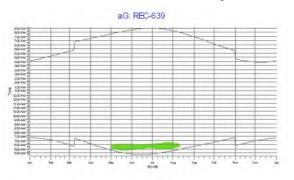
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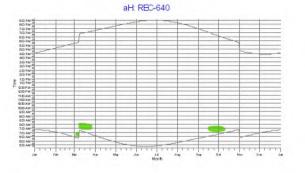
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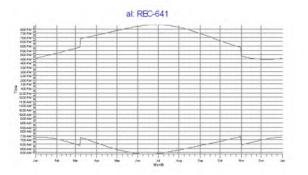
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

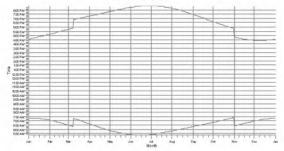




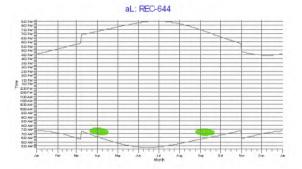
aJ: REC-642







Ja Month



WTGs

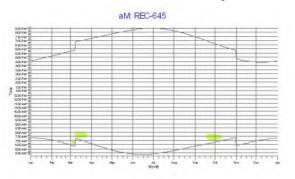
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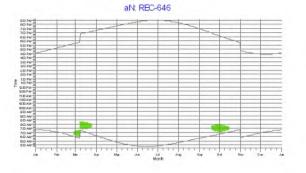
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect. Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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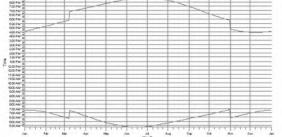
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

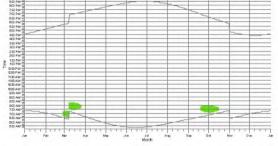




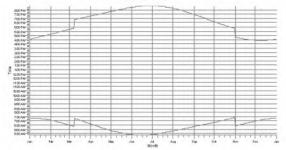
aO: REC-647



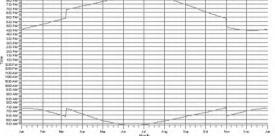
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aR: REC-650



WTG:

100: K70

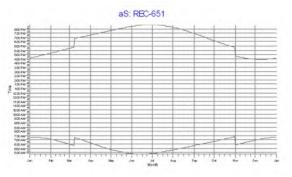
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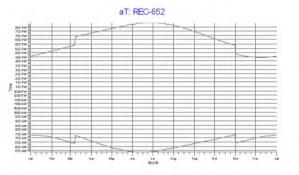
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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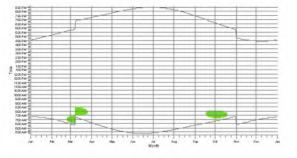
SHADOW - Calendar, graphical



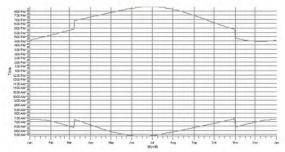




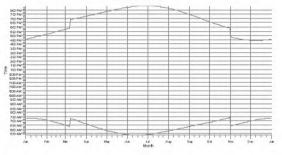
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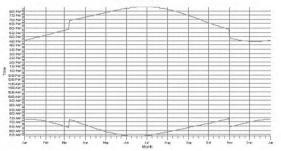




aV: REC-654







WTGs

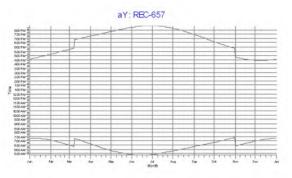


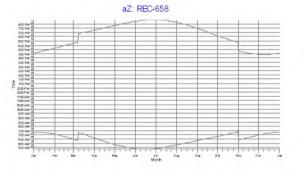
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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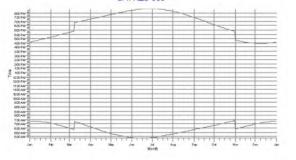
SHADOW - Calendar, graphical



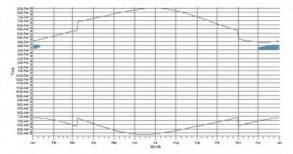




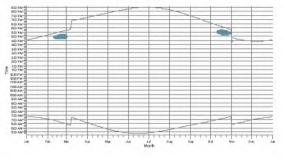
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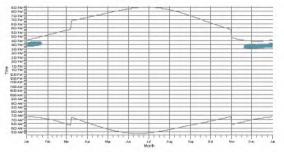
bC: REC-661



bB: REC-660



bD: REC-662





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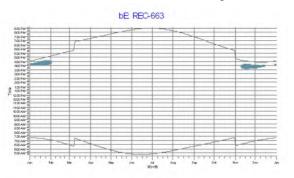
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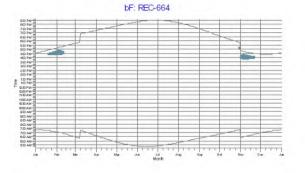
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SHADOW - Calendar, graphical

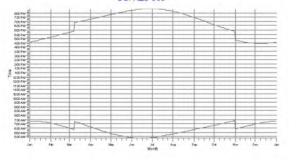
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)



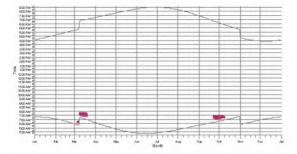


bH: REC-666

bG: REC-665



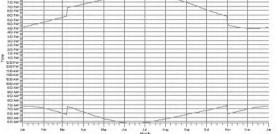
bl: REC-667



137: K200

bJ: REC-668

Mont



WTGs

99: K66



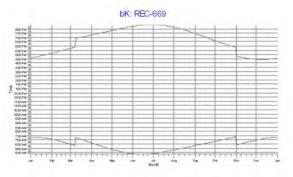


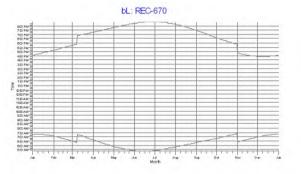
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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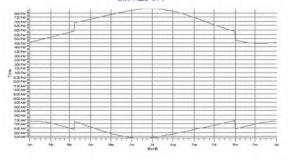
SHADOW - Calendar, graphical



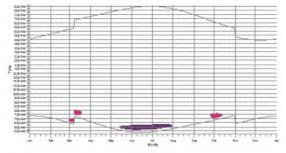




bMt REC-671

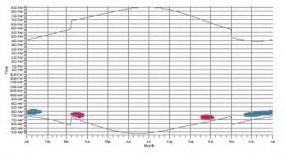




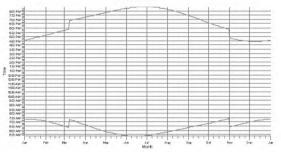




bNt REC-672







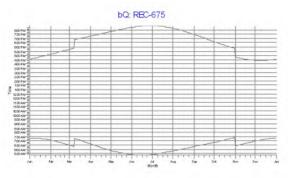


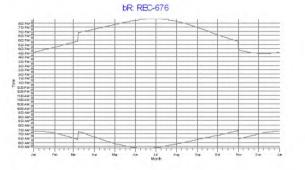
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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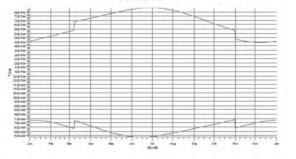
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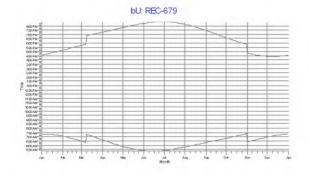




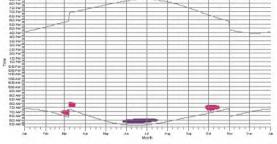
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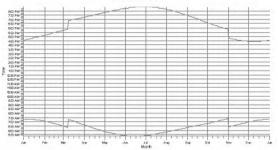




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101: K73

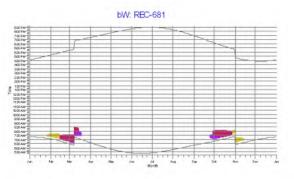


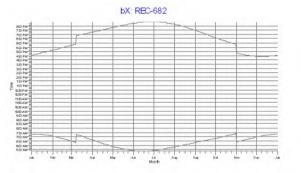
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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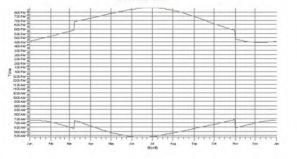
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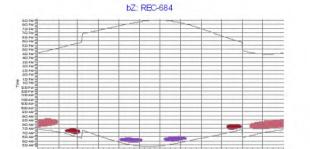
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)



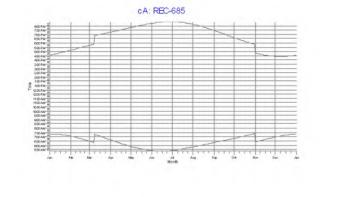


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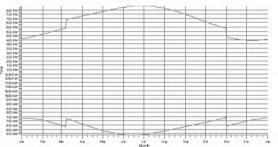


Mont





cB: REC-686

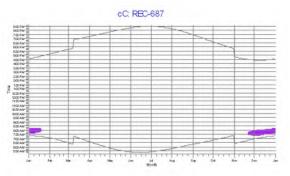


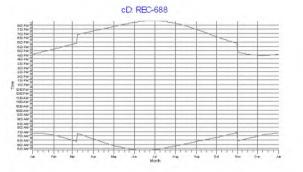
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect. Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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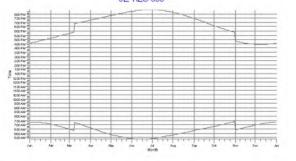
SHADOW - Calendar, graphical



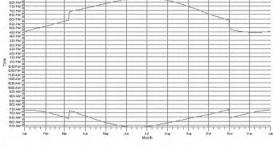




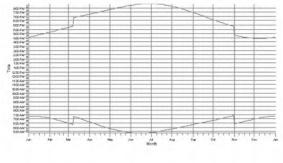
cE REC-689



cF: REC-690





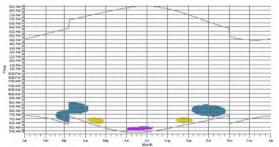


WTGs

120: K101

121: K79

cHt REC-692



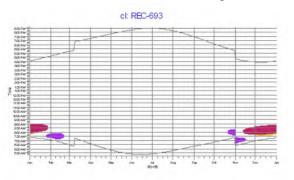
123: K77

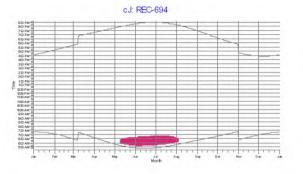
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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SHADOW - Calendar, graphical

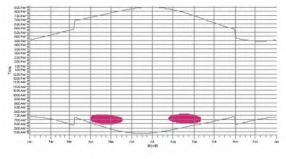
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)





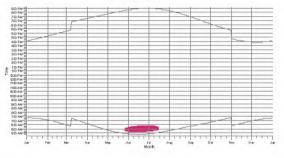
CK: REC-695



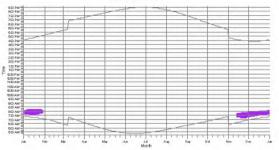




cL: REC-696





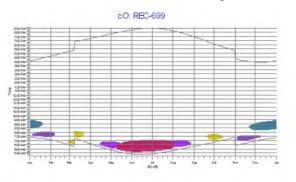


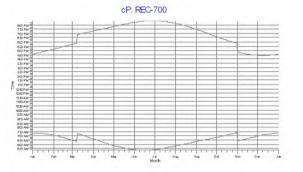
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

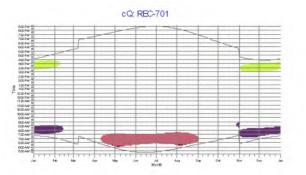
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SHADOW - Calendar, graphical

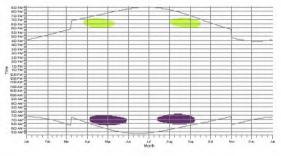
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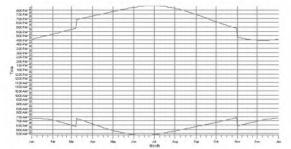




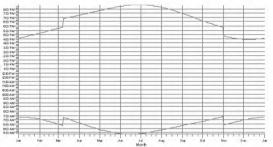














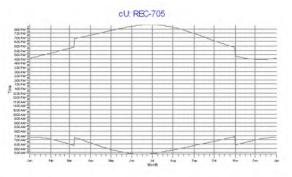


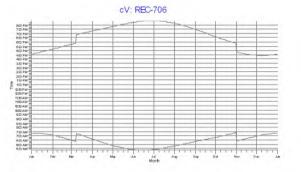
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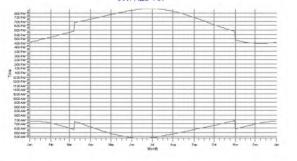
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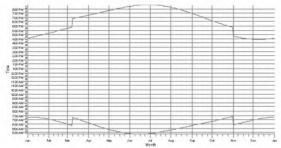




cW: REC-707

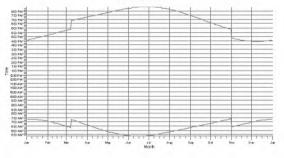




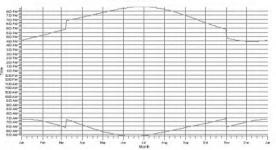


WTGs

cX: REC-708





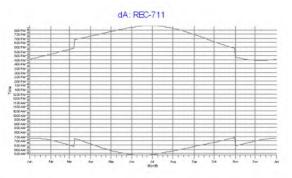


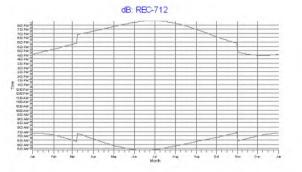
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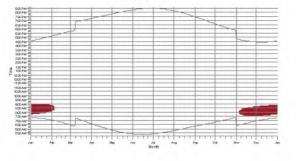
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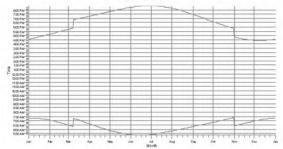




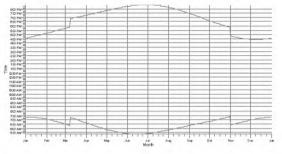
dC: REC-713



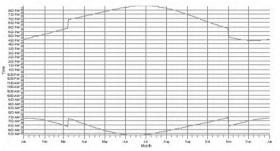




dD: REC-714







WTGs

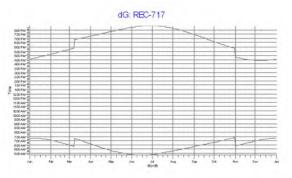


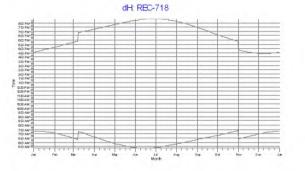
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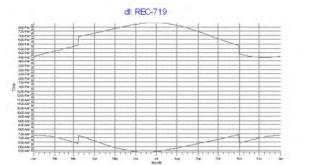
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SHADOW - Calendar, graphical

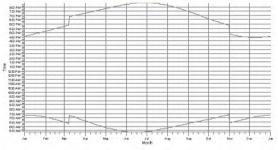




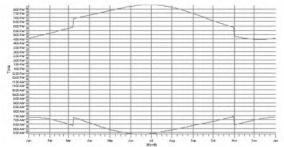




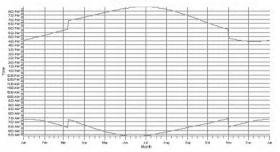










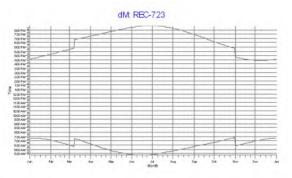


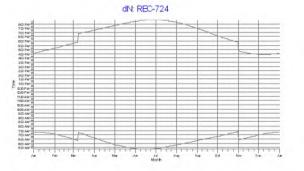
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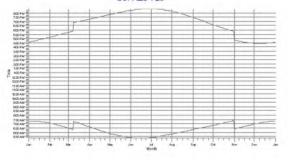
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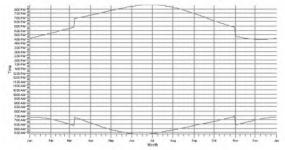




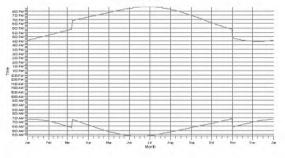
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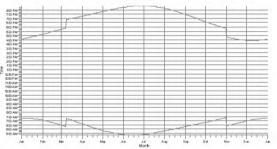




dP: REC-726







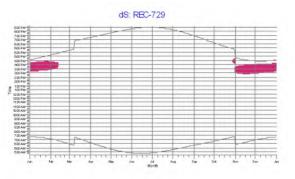


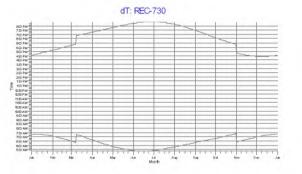
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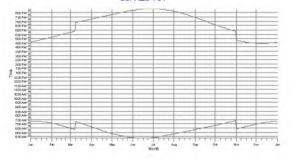
SHADOW - Calendar, graphical

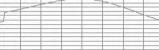
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)



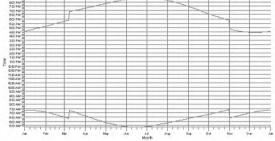


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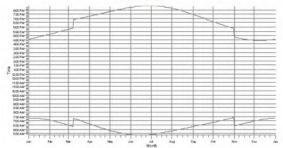




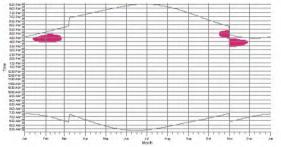
dV: REC-732







dX: REC-734



WTGs

101: K73



Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

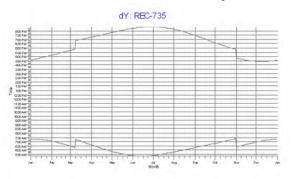
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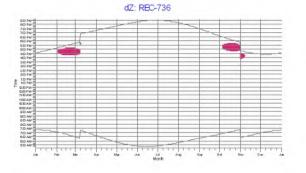
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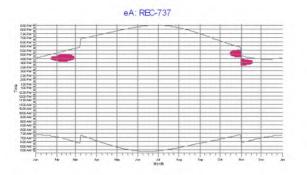
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SHADOW - Calendar, graphical

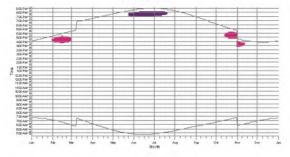
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)







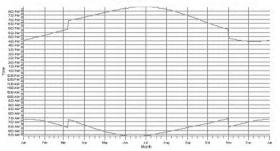




Jun Jul Month

eB: REC-738





WTGs

101: K73

102: K74

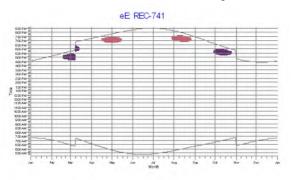


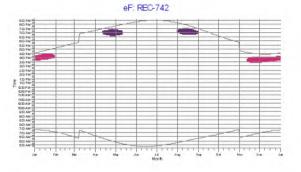
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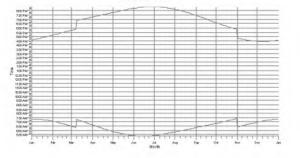
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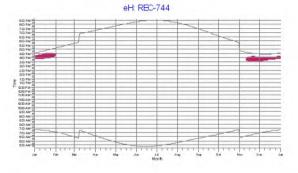
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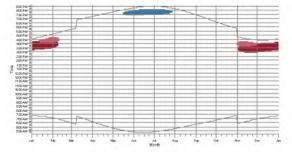


eG: REC-743



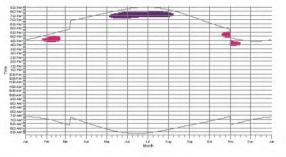










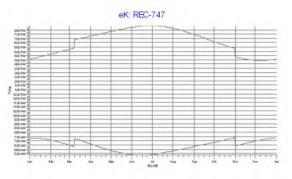


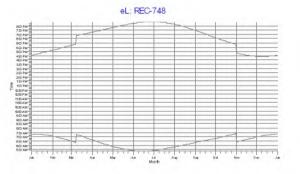


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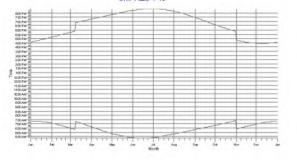
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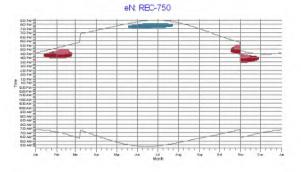




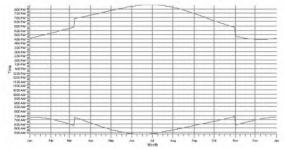


eM: REC-749



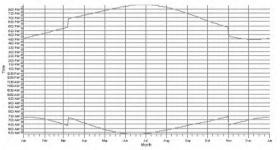






WTGs 103: K78 133: K202 135: K205

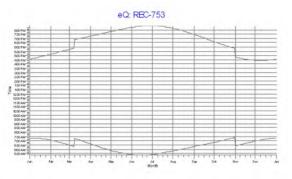
eP: REC-752

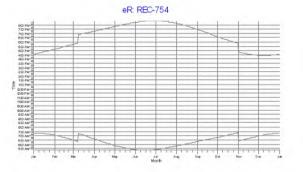


Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

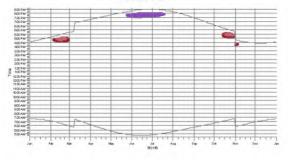
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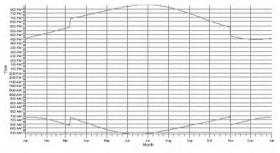




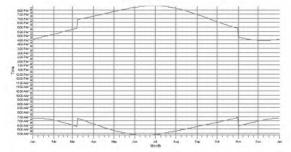
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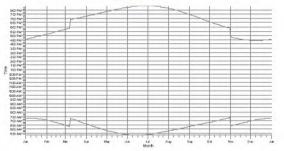








eV: REC-758



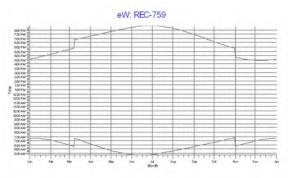


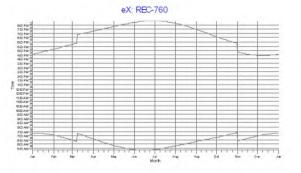
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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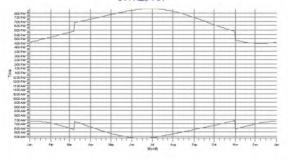
SHADOW - Calendar, graphical



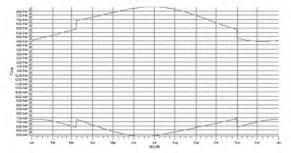




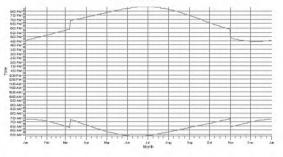
eY: REC-761



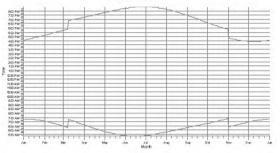
fA: REC-763



eZ: REC-762



fB: REC-764



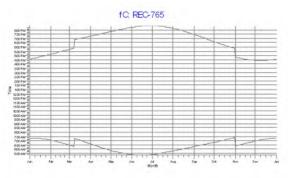


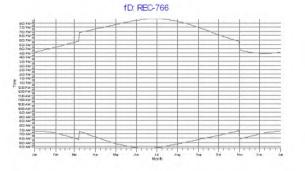
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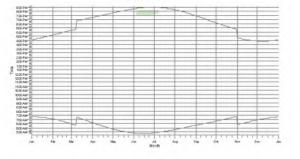
SHADOW - Calendar, graphical



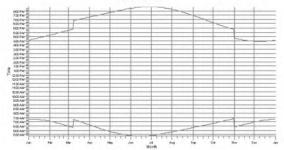




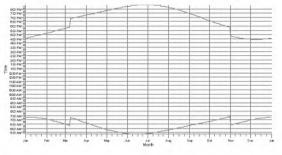
fE REC-767



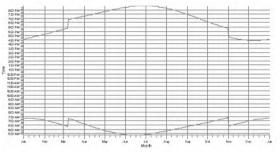




fF: REC-768







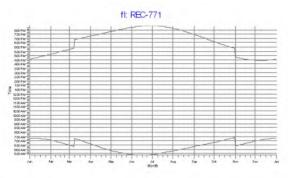
WTGs

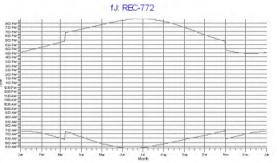


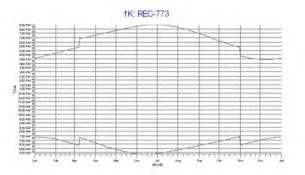
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect. Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

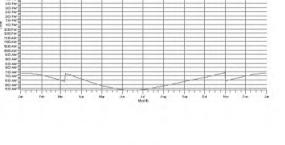
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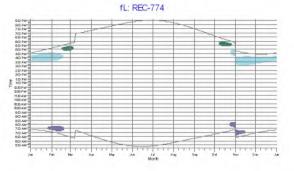




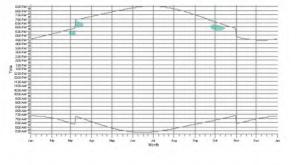






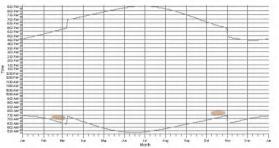






WTGs						
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fN: REC-776

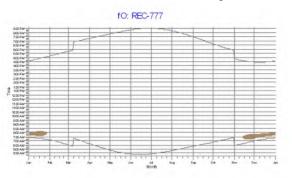


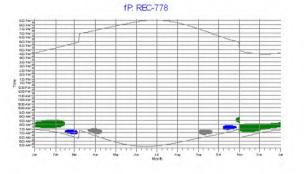
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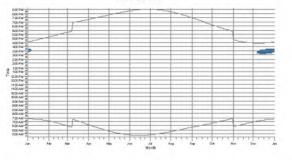
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

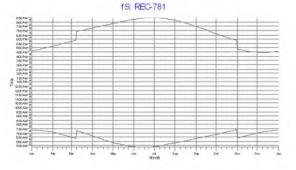






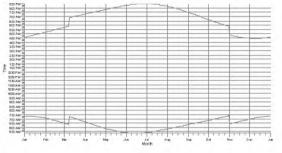




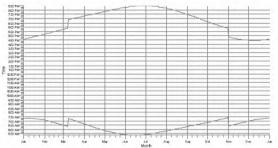




fR: REC-780



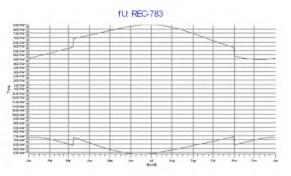


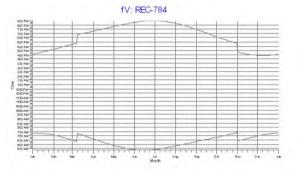


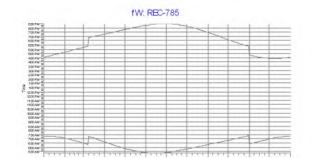
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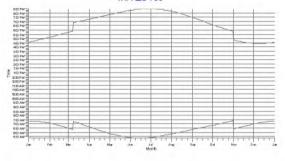




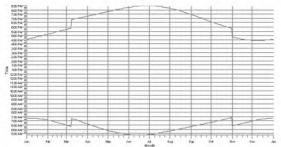




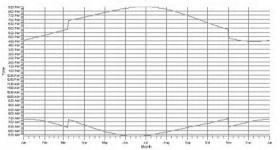








fZ: REC-788

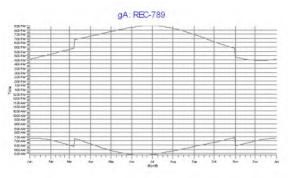


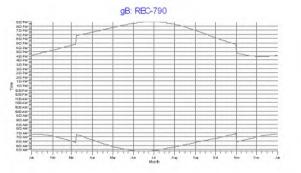


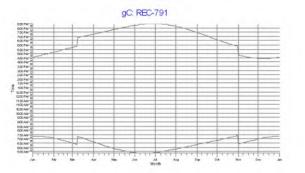
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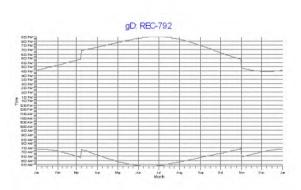
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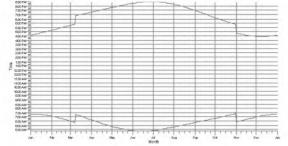




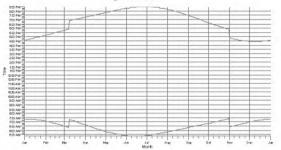








gF: REC-794



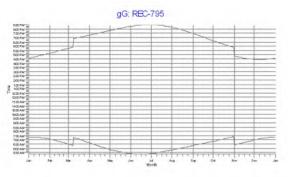


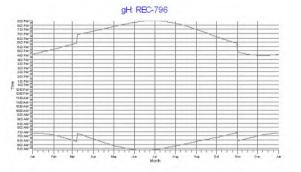
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SHADOW - Calendar, graphical

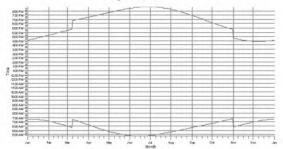






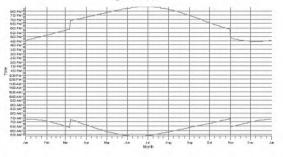
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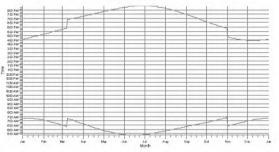


WTGs

gJ: REC-798





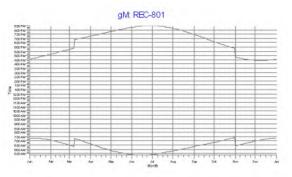


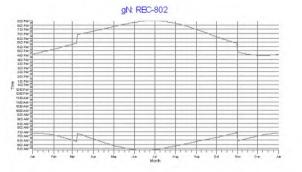


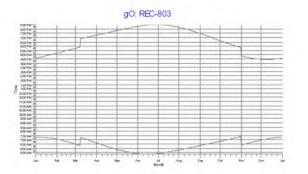
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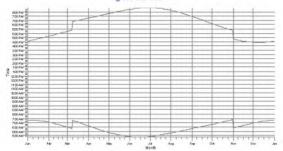




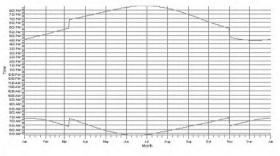




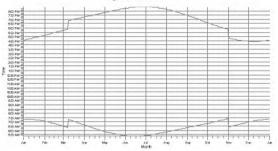












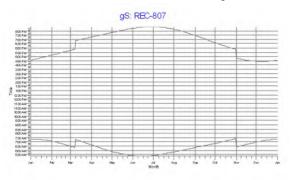


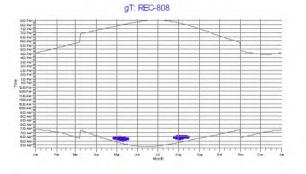
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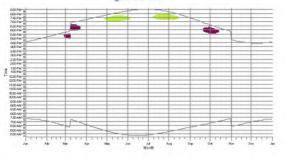
SHADOW - Calendar, graphical

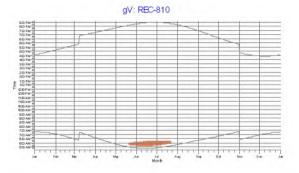
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)



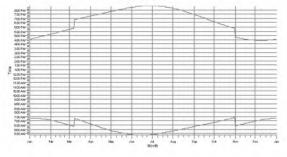






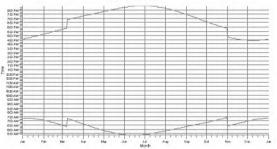








gX: REC-812

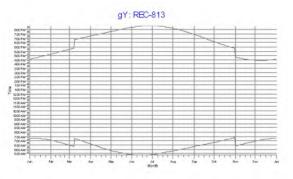


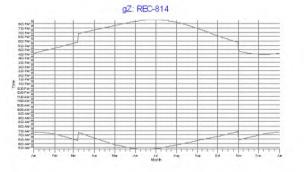
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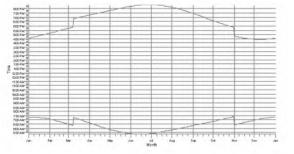
SHADOW - Calendar, graphical



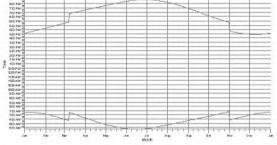




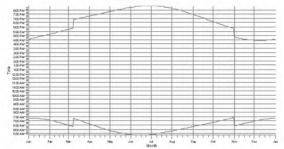
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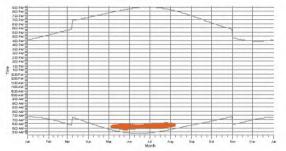
hB: REC-816







hD: REC-818



WTGs

128: K48

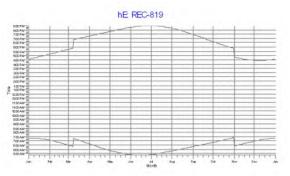


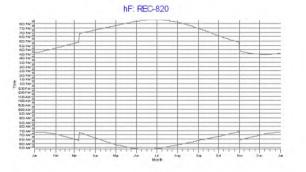
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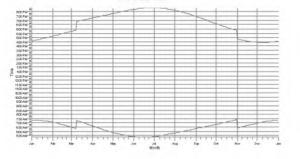
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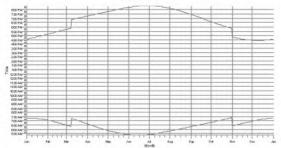




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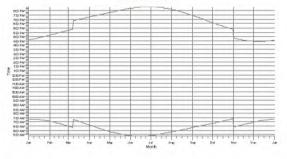




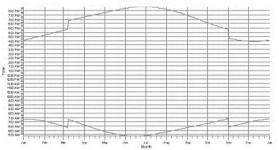


WTGs

hH: REC-822



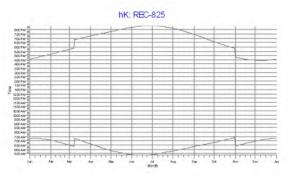


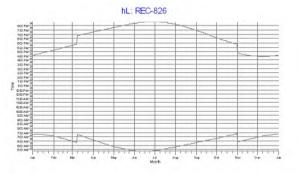


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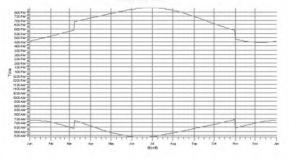
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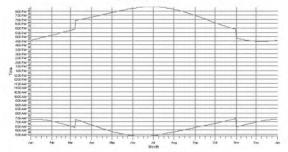




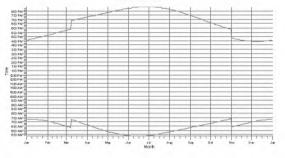
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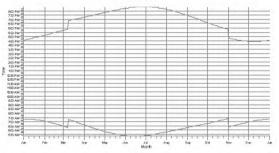
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hN: REC-828





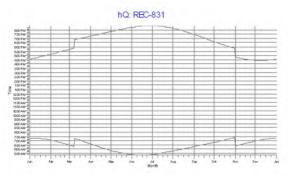


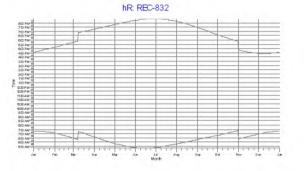


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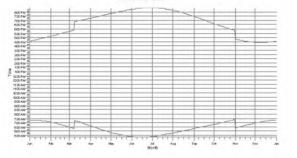
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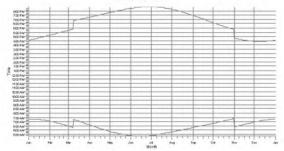




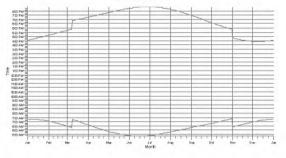
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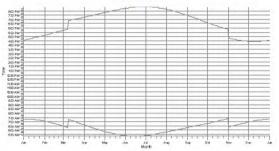




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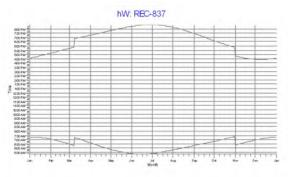


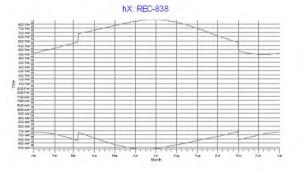
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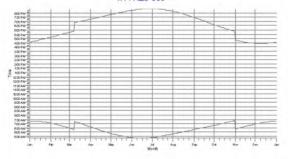
SHADOW - Calendar, graphical



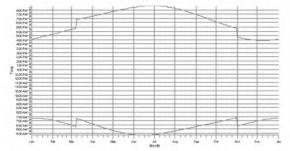




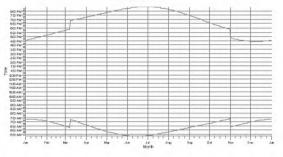
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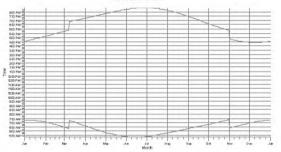
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hZ: REC-840



iB: REC-842

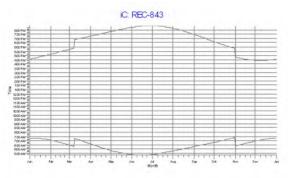


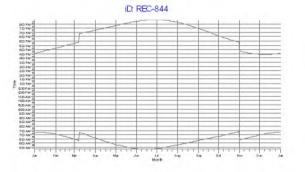


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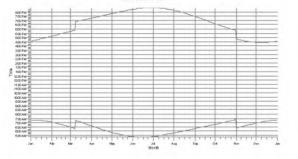
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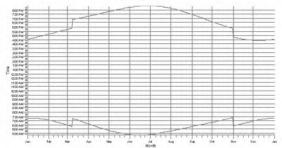




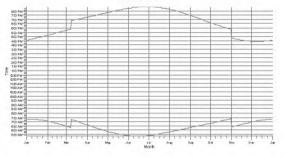
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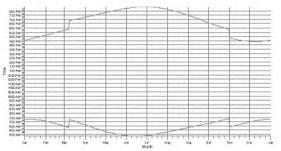




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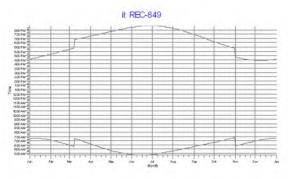


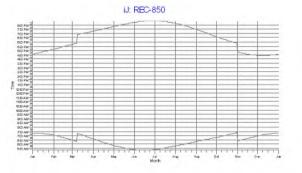
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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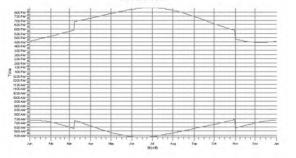
SHADOW - Calendar, graphical



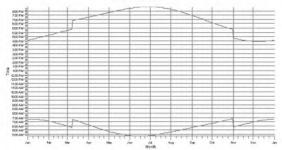




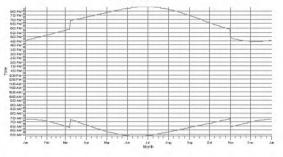
IK: REC-851



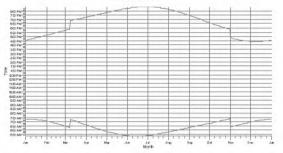




iL: REC-852



IN REC-854



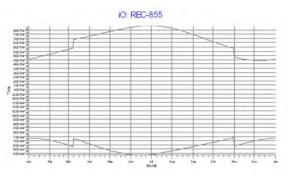


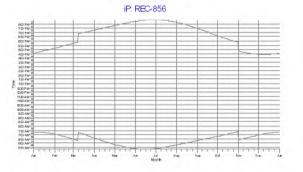
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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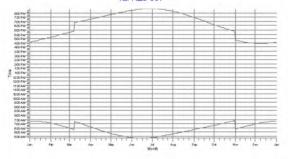
SHADOW - Calendar, graphical



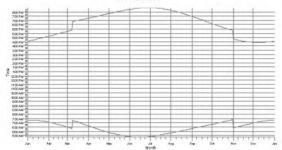




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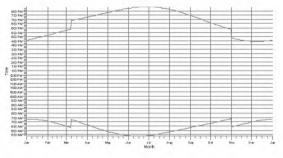




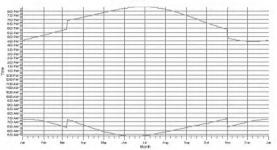


WTGs

IR: REC-858





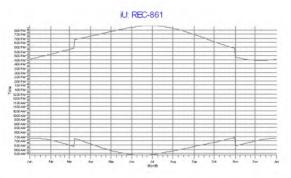


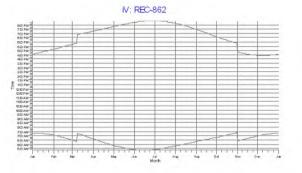
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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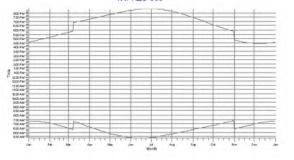
SHADOW - Calendar, graphical



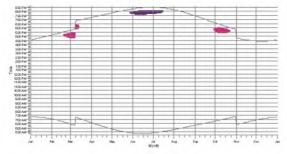




IW: REC-863





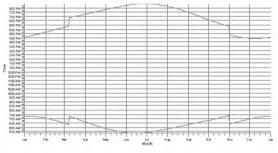


WTGs

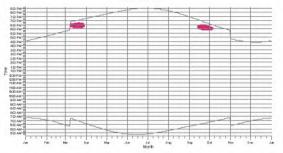
101: K73

102: K74









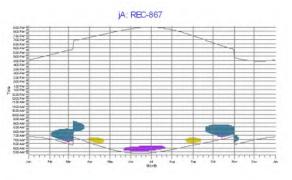


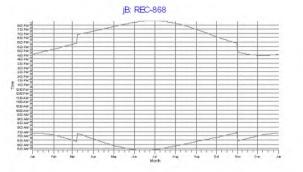
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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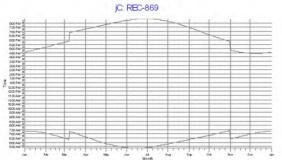
SHADOW - Calendar, graphical

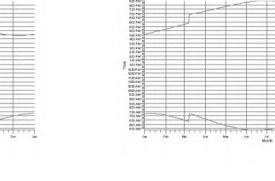


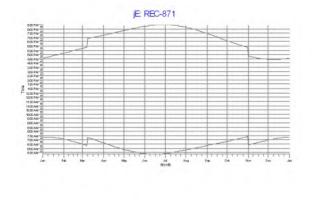




JD. REC-870

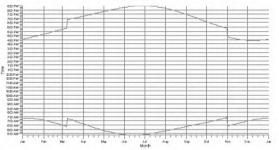








jF: REC-872

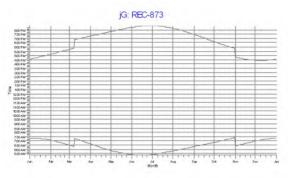


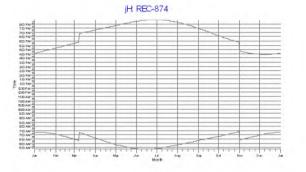
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect. Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

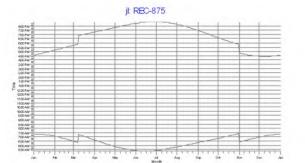
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SHADOW - Calendar, graphical



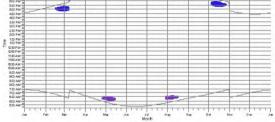


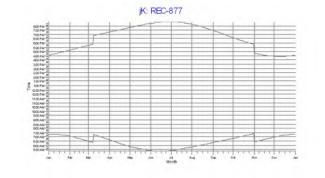




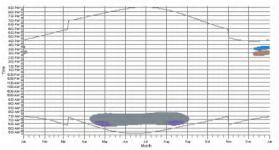


jJ: REC-876





jL: REC-878



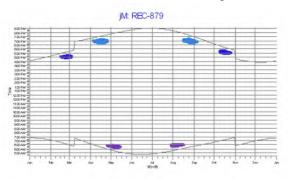


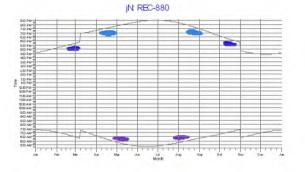
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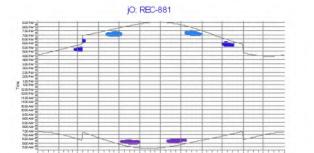
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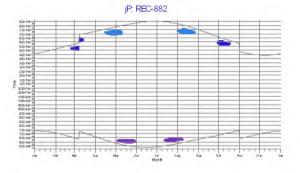
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

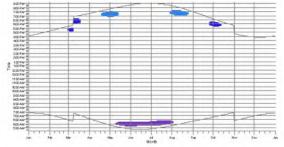






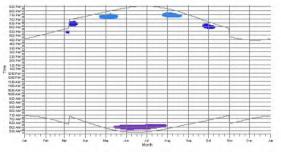






WTGs 36: L61 39: L64 55: L87

jR: REC-884

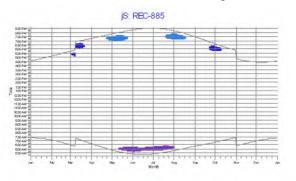


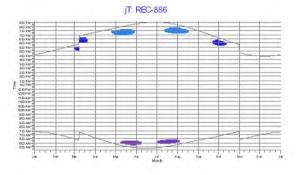
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

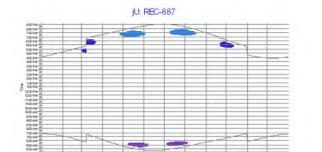
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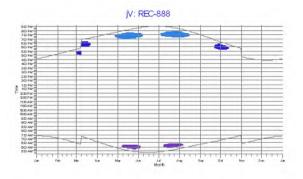
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

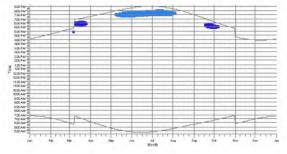






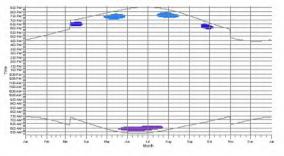






WTGs 36: L61 39: L64 55: L87

jX: REC-890

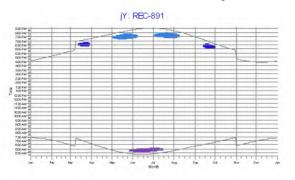


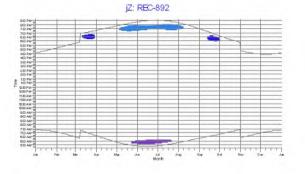
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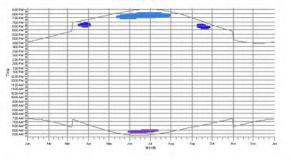
SHADOW - Calendar, graphical

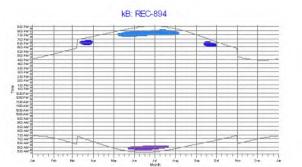
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)



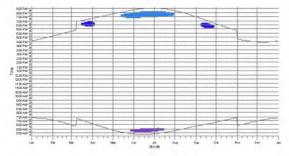






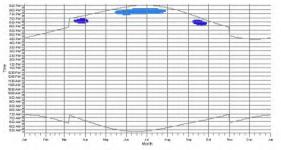






WTGs 36: L61 39: L64 55: L87

kD: REC-896



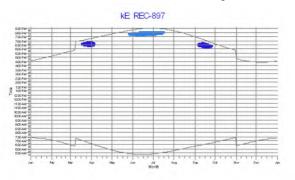


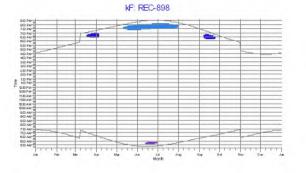
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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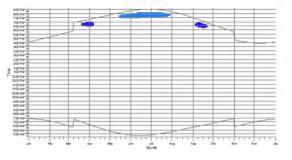
SHADOW - Calendar, graphical

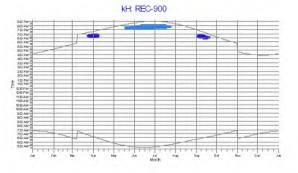
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)



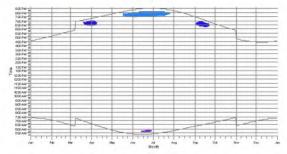


kG: REC-899



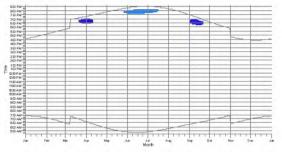


kl: REC-901



WTGs 36: L61 39: L64 55: L87

kJ: REC-902

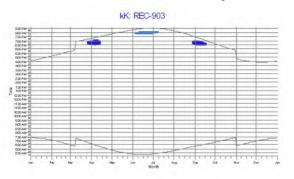


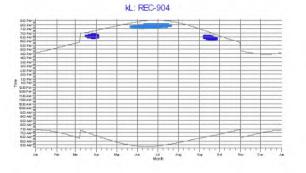
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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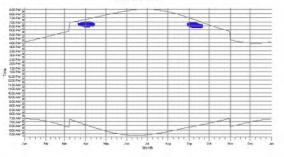
SHADOW - Calendar, graphical

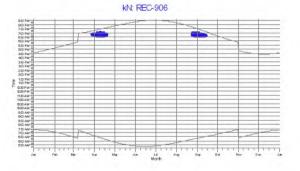
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)



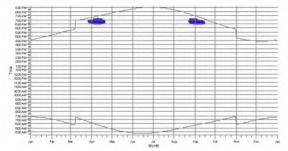








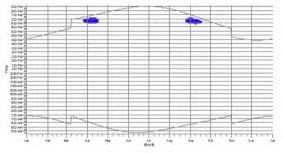




WTGs

36: L61 39: L64

kP: REC-908



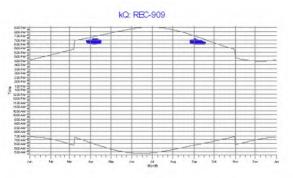


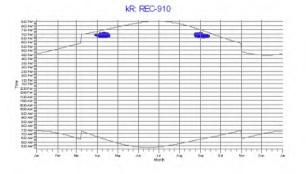
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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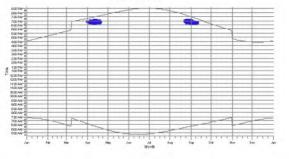
SHADOW - Calendar, graphical

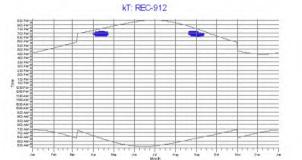
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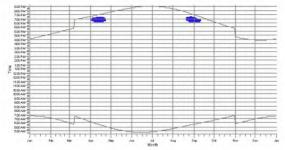




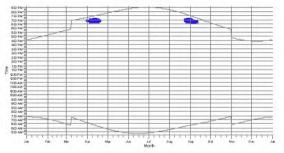








kV: REC-914



WTGs

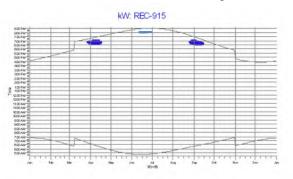


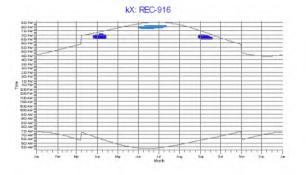
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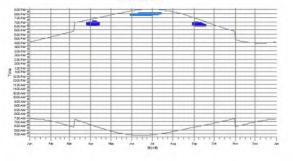
SHADOW - Calendar, graphical

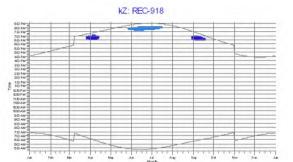
Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)



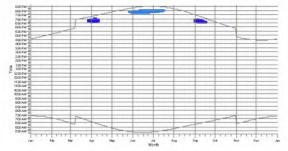


kY: REC-917

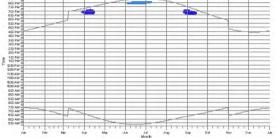








IB: REC-920



WTGs



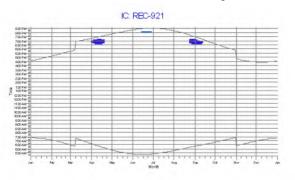


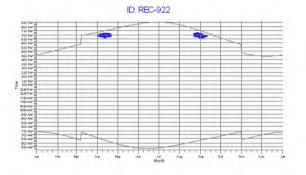
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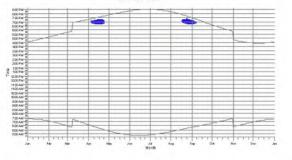
SHADOW - Calendar, graphical

Calculation: 132138 - Pattern - Heritage Prairie Wind - v6 (Vestas, Estimated Sunshine)

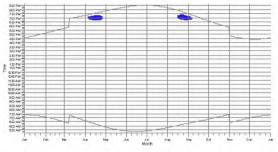




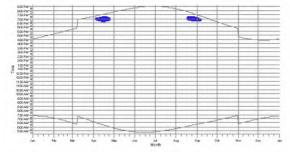




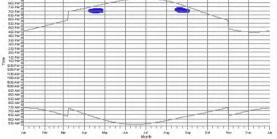








IH REC-926



WTGs

36: L61 39: L64

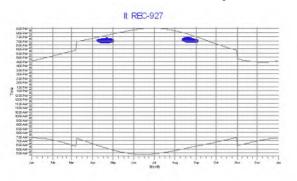


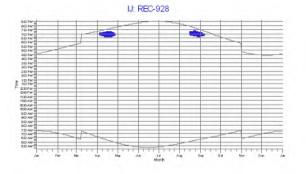
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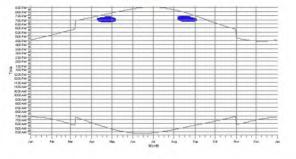
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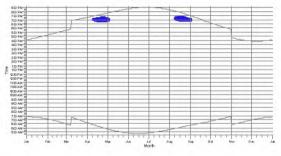




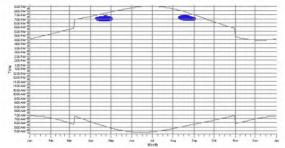
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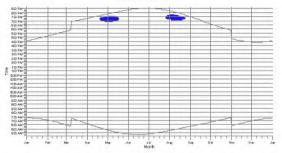








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WTGs

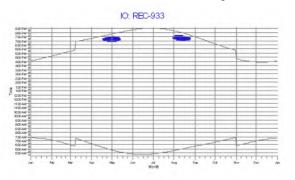


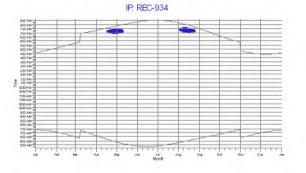
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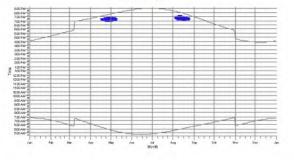
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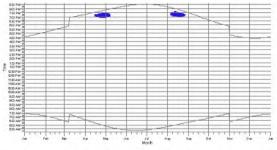




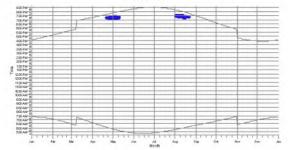
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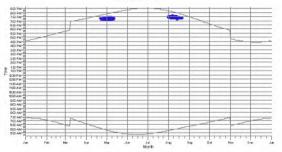








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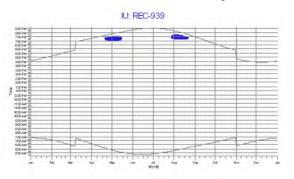
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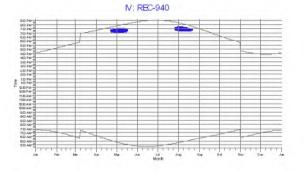
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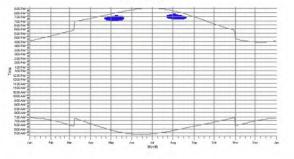
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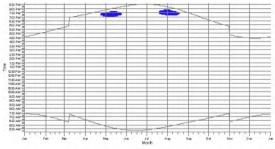




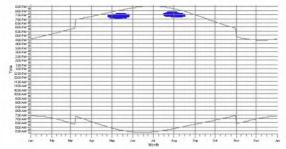
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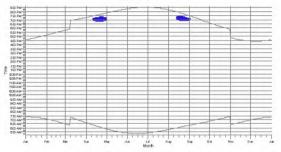








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WTGs

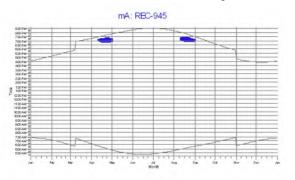


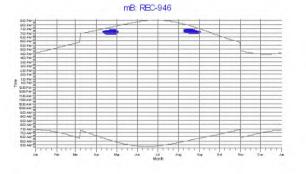
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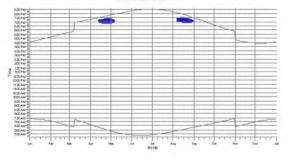
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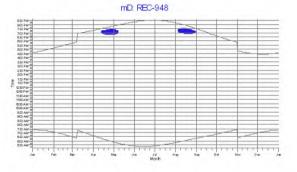
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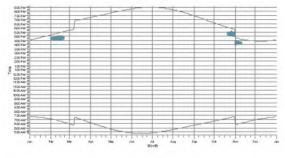


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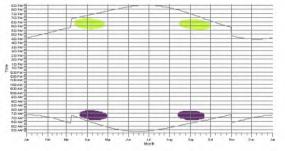








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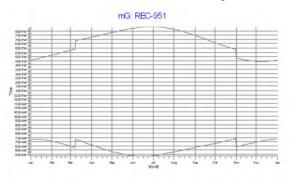
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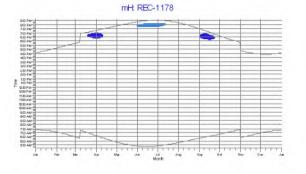
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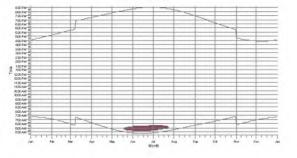
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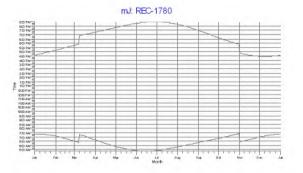
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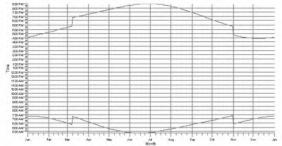


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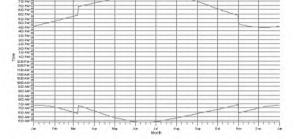






39: L64

79: K13



mL: REC-1782



36: L61

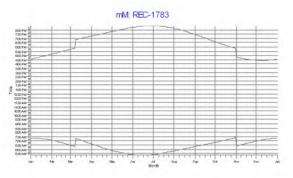


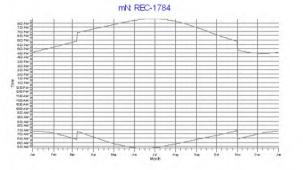
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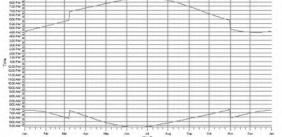
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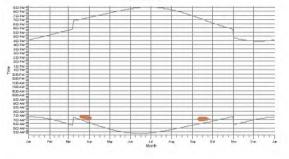




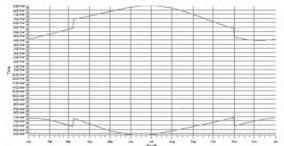
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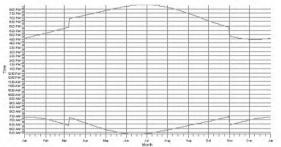
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WTGs

112: K92





DECOMMISSIONING PLAN



WIND FARM DECOMMISSIONING PLAN

ILLINOIS GENERATION, LLC

HERITAGE PRAIRIE WIND - LIVINGSTON COUNTY 132138

REVISION 4 March 26, 2024

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LIST OF ABBREVIATIONS

Abbreviation	<u>Term/Phrase/Name</u>
1898 & Co.	1898 & Co., a division of Burns & McDonnell Engineering Company, Inc.
AIMA	Agricultural Impact Mitigation Agreement
ВМР	best management practices
IDOA	Illinois Department of Agriculture
Illinois Generation	Illinois Generation, LLC
kV	kilovolts
MW	Megawatt
O&M	operation and maintenance
Project	Livingston County portion of the Heritage Prairie Wind Project
Project Site	Livingston County, Illinois
Turbine Type A	Vestas V163-4.5
Turbine Type B	GE 3.8-154



Executive Summary

1.1 Introduction

1898 & Co., a division of Burns & McDonnell Engineering Company, Inc. (hereinafter called "1898 & Co."), was retained by Illinois Generation, LLC ("Illinois Generation") to conduct a decommissioning cost evaluation for the Livingston County Portion of the Heritage Prairie Wind Project ("Project"). The objective of the Study was to review the Project and to make a recommendation regarding the decommissioning plan for retiring the facility at the end of its useful life.

1.2 Project Overview

The proposed Project will be located in Livingston, Illinois, approximately 5 miles East of Dwight (the "Project Site"). At the time of this Study, there are two possible layouts for the Project. One layout uses Vestas V163-4.5 ("Turbine Type A") and the other uses GE 3.8-154 ("Turbine Type B"). For the purpose of this report, an estimate for Turbine Type A and an estimate for Turbine Type B are included. The two possible Project layouts are shown in Appendix B.

1.3 Methodology

When it is determined that the Project should be retired, the above-grade steel structures and turbine nacelles are assumed to have significant scrap value to a salvage contractor, offsetting a portion of the cost to remove these items. The Project will also incur costs for removal and disposal of the blades, foundations, and other Project facilities as well as for the restoration of the site following the removal of salvageable equipment.

The decommissioning cost estimates provided herein include the costs to return the site to a condition compatible with the surrounding land, similar to the conditions that existed before the development of the Project. Included are the costs to retire the power generating equipment that is part of the Project as well as the costs to retire the Project's balance-of-plant facilities. All equipment, structures, and supporting facilities will be removed to a depth of 5 feet below grade in accordance with the Illinois Department of Agriculture ("IDOA") Wind Farm Agricultural Impact Mitigation Agreement ("AIMA")

1.4 Results

The total cost to decommission the Project at the end of its useful life, using Turbine Type A layout or Turbine Type B and based on the assumptions noted herein, are presented in the table below. It is expressly noted that while costs are presented both in total and per turbine, a change in the quantity of turbines may not cause the total decommissioning cost to increase or decrease linearly by the per turbine cost due to non-scalable differences in balance-of-plant costs and other similar factors.



Table 2-1; Summary of Total Estimate Cost for Project Decommissioning					
Turbine Layout	Gross Cost	Scrap Cost	Net Cost	Net Cost per Turbine	
71 x V163-4.5	\$16,918,750	(\$12,614,000)	\$4,304,750	\$60,600	
71 x GE 3.8-154	\$16,505,00	(\$9,378,000)	\$7,127,000	\$100,380	

Table 2-1: Summary of Total Estimate Cost for Project Decommissioning

1.5 Site Visit

1898 & Co did not visit the Project Site as part of this Study. The contents of this evaluation are based exclusively upon desktop analysis by 1898 & Co.

2.0 Project Overview

2.1 Project Summary

1898 & Co. was retained by Illinois Generation to conduct a decommissioning cost evaluation for the Project. The objective of the study was to review the Project and to make a recommendation regarding the decommissioning cost and plan for retiring the facility at the end of its useful life.

The Project is located in Livingston County, approximately 5 miles East of the city of Dwight. It should be noted that at the time of the Study, there are two possible layouts for the Project. Turbine Type A layout includes 71 Vestas V163-4.5 wind turbines for a total nameplate capacity of approximately 319.5 megawatts "MW." Turbine Type B layout includes 71 GE 3.8-154 wind turbines for a total nameplate capacity of approximately 269.8 MW.

2.2 **Project Facilities**

The following sections provide an overview of the Project facilities.

2.2.1 Wind Turbines

The Project will consist of 71 wind turbines, the details of which have not been finalized at the time of this Study. There are two possible layouts for the Project, utilizing different turbine types. Turbine Type A is the Vestas V163-4.5. Each V163-4.5 wind turbine includes a 113-meter conical tubular steel tower which supports the turbine nacelle mounted on top. The nacelle of each turbine includes three blades mounted to the nacelle rotor with a total rotor diameter of approximately 163 meters.

The alternate layout for the Project would use Turbine Type B, the GE 3.8-154. Each GE 3.8-154 wind turbine includes an 98-meter conical tubular steel tower which supports the turbine nacelle mounted on top. The nacelle of each turbine includes three blades mounted to the nacelle rotor with a total rotor diameter of approximately 154 meters.

2.2.2 Wind Turbine Foundations

Each wind turbine tower will be supported by a concrete foundation. Preliminary foundation design drawings were provided by Illinois Generation. The circular concrete pedestal is assumed to be 20 feet in diameter with a depth below grade of 2.25 feet. The pedestal is assumed to be supported by an cylindrical base which is assumed to have an upper diameter of 36 feet and a lower diameter of 87 feet.

All underground facilities for the Project are to be removed to a depth of at least 5 feet below grade in accordance with the IDOA Wind Farm AIMA. Thus, the concrete pedestal is to be removed entirely plus the top approximately 2 feet and 9 inches of the foundation base, collectively down to 5 feet below-grade. The area will then be backfilled as part of the decommissioning, and the remaining foundation will be abandoned in place.

2.2.3 Access Roads

Each wind turbine has an access road to support construction and allow for vehicle access to facilitate inspections and maintenance of the turbines and associated equipment during operation. Access roads are assumed to be surfaced with approximately 6 inches of crushed rock with a final width of approximately 16 feet. According to access road KMZ layouts provided by Illinois Generation, 20 miles of access roads were assumed to be removed, decompacted, and seeded as part of this Study.

2.2.4 Collection System

Each wind turbine will generate three-phase electrical power that is transformed to 34.5 kilovolts ("kV") via a transformer located in the nacelle of each wind turbine. Power from each transformer is delivered through one of the Project's underground power collection circuits to the on-site collector substation.

It is assumed that all cables will be buried at a minimum depth of 5 feet below-grade. At this depth, all cables (including both power and communication cabling) were assumed to remain in place after the Project is decommissioned as they exceed the depth requirement set forth in the IDOA Wind Farm AIMA. Thus, the only cost incurred in this Study from the collection system will be to remove and dispose of the above-grade junction boxes; for the avoidance of doubt, medium-voltage transformers are included in the turbine removal cost.

2.2.5 Project Substation

Power from each wind turbine will be delivered via underground power collection circuits to an on-site collector substation, where it is transformed via two main power transformers. The substation will also consist of multiple disconnect switches, lightning masts, control building, circuit breakers, and other ancillary equipment. All above-grade equipment within the perimeter fence of the substation was assumed to be removed, and all below-grade equipment to a depth of 5 feet per the IDOA Wind Farm AIMA, was assumed to be removed.

2.2.6 Transmission Line

The Project output is transformed at the on-site collector substation. The Project is interconnected to the Kankakee Wind Substation. A KMZ of the Wind Gentie line was provided by Illinois Generation. Included in the study is the removal of approximately 7.6 miles of overhead transmission line. The transmission line is assumed to have steel towers at span lengths of approximately 700 feet, resulting in an assumed removal of 58 steel transmission towers.

2.2.7 Maintenance/Warehouse Facility

The Project will have an on-site operation and maintenance ("O&M") facility on the Project Site. The O&M building is assumed to be 60 feet long by 100 feet wide by 12 feet high and was assumed to consist of a preengineered metal building with a concrete slab foundation.

2.2.8 Meteorological Equipment

Wind data is measured using two (2) meteorological towers. Project-specific design drawings for this tower included permanent, free-standing, lattice-type towers. Each tower was assumed to be fully removed as part of this Study.

3.0 Decommissioning

3.1 Decommissioning Plan

When it is determined that the Project should be retired, the Project equipment will be removed as noted herein. It was assumed that the Project will incur costs for removal and disposal of the wind turbines, wind turbine foundations, and other Project facilities, as well as for the restoration of the site following the removal of equipment. However, the above-grade steel, aluminum, and copper equipment is expected to have significant scrap value to a salvage contractor that will offset some decommissioning costs. All recyclable materials will be recycled to the extent possible, while all other non-recyclable waste materials will be disposed of in accordance with state and federal law.

The wind turbine blades will be removed from the nacelle using a crane, cut into manageably-sized sections, loaded onto a trailer, and hauled to a local landfill for disposal. The wind turbine blades are constructed from a composite material that is was assumed to have no salvage value at the time of decommissioning. The turbine nacelles will be removed from the towers with a crane and loaded onto a trailer. The towers will be disassembled and loaded onto a trailer as well. The nacelle and towers typically will then be hauled off to a scrap yard for recycling. The cost estimate presented in this report that includes scrap includes the cost to haul the turbines and nacelles to the scrap yard.

All concrete wind turbine foundations will be removed to a depth of 5 feet below grade in accordance with the IDOA Wind Farm AIMA; the portions of the foundation that are greater than 5 feet below grade will be abandoned in place. The recovered concrete will be demolished, loaded into a dump truck, and hauled to a local landfill for disposal. Voids left from the removal of the concrete footings will be backfilled and restored to pre-development conditions.

The Project substation will be removed from the site, including all above-grade equipment (e.g., transformers, breakers, busbars), buildings, crushed rock surfacing, and fencing. The cost estimate presented in this report that includes scrap includes the cost to haul the salvageable equipment to the scrap yard, whereas the cost estimate that excludes scrap assumes all salvageable equipment will be hauled to a landfill for disposal. All below-grade equipment (e.g., foundations) will be removed to a depth of 5 feet below grade in accordance with IDOA Wind Farm AIMA.

All crushed rock surfacing will be removed from the Project's access roads. Areas where crushed rock surfacing has been removed will be fine graded to provide suitable drainage. In right-of-way and non-agricultural areas, the ground will be seeded to prevent erosion. The removed crushed rock will be loaded into dump trucks and hauled offsite. Crushed rock can be recycled and reused and typically has a salvage value as a commodity equal to or greater than the cost to haul to an end user. However, for the purpose of this Study, the cost to remove the crushed rock, load it into dump trucks, and haul it offsite will be at the expense of the Project.

Prior to commencing activities associated with foundation removal, crushed rock surfacing removal, or any other earthwork, an approved erosion control plan will need to be developed by the demolition contractor. Best management practices ("BMPs") applicable at the time that decommissioning activities occur will need to be implemented by the contractor for control of storm water runoff. Since decommissioning activities are not anticipated to occur for 20 years or more, BMPs may differ from current standards. However, if decommissioning takes place in the near future, Burns & McDonnell would anticipate BMPs such as silt

fencing and proper compaction, seeding, and mulching practices to be implemented. BMPs will need to be reviewed by the contractor prior to commencing decommissioning activities to determine appropriate BMPs at that time. To the extent necessary, permits relating to decommissioning activities will need to be obtained, including permits from the Environmental Protection Agency. The costs included in this Study are expected to be sufficient for a demolition contractor to develop suitable plans for the control of surface water drainage and water accumulation and, where appropriate, for backfilling, soil stabilization, compacting, and grading prior to commencing demolition activities.

All disturbed areas at the site will be returned to as close to predevelopment conditions as possible. This will allow all land disturbed by the construction of the Project to be returned to its predevelopment use at the end of the useful life of the Project. The cost estimates provided in the following section include activities and costs to return the land to a condition suitable for agricultural use subsequent to decommissioning of the Project.

The activities associated with the decommissioning plan described above are anticipated to be completed within a 6-month timeframe, according to the following estimated schedule:

•	Decommissioning Planning & Permitting:	2 months
•	Demolition:	3 months
•	Site Restoration:	1 month

Additional time may be required for post-decommissioning activities, including monitoring of new vegetation. However, this timetable and the cost estimates below should provide sufficient time and budget to comply with any applicable health and safety regulations.

3.2 Decommissioning Costs

The total cost to decommission the Project at the end of its useful life, based on the assumptions noted herein including the original construction methods of the Project, is presented below; a detailed breakdown of these costs is included in Appendix A. It is expressly noted that while costs are presented both in total and per turbine, a change in the quantity of turbines may not cause the total decommissioning cost to increase or decrease linearly by the per turbine cost, due to non-scalable differences in balance-of-plant costs and other similar factors. The decommissioning cost estimate are shown below for both the Turbine Type A layout and Turbine Type B layout.

Turbine Layout	Gross Cost	Scrap Cost	Net Cost	Net Cost per Turbine
71 x V163-4.5	\$16,918,750	(\$12,614,000)	\$4,304,750	\$60,600
71 x GE 3.8-154	\$16,505,00	(\$9,378,000)	\$7,127,000	\$100,380

Table 3	2_1.	Summary	of Tota	Estimated	Cost for	Project	Decommissioning
Table :	D-I .	Summary	UI IULA	i Estimateu	COSCIO	riojeci	Decommissioning

3.3 Decommissioning Assumptions

In addition to other assumptions noted herein, the following general assumptions were utilized for the study's decommissioning cost estimates.

1. All costs are presented in current (2023) dollars using the site cost index of 92.1% for Kankakee, Illinois.

- 2. The decommissioning estimate is based on details and equipment defined through conversations with and documentation provided by Illinois Generation.
- 3. An offsite landfill (Prairie View Landfill) is used for disposal of demolition waste. The hauling distance to this landfill is approximately 23 miles from the Project site, and the cost for disposal of debris and concrete is \$78.45. per ton.
- 4. Where applicable, scrap values are based upon an average of monthly American Metal Market prices for February 2023 through January 2024 (i.e., one calendar year). These values include the cost to haul the scrap via truck and/or rail to the major market which provides the best price. Based on hauling and rail prices, the best market at the time of this Study is Chicago, IL. Prices used include:
 - a. Steel scrap value is \$284.74 per net ton.
 - b. Copper scrap value is \$2.97 per pound.
 - c. Aluminum scrap value is \$0.38 per pound.
- 5. Fluids located within the turbine nacelle, including oils, fuels, solvents, and process chemicals, were assumed to be drained and disposed of offsite as part of the decommissioning.
- 6. It was assumed that all containers and chemical storage tanks owned by the Project will be drained and the material disposed of prior to demolition; these costs are excluded from the estimate.
- 7. All underground equipment will be removed to a depth of 5 feet below grade in accordance with the IDOA Wind Farm AIMA. All non-hazardous structures or foundations greater than 5 feet below grade will remain and are excluded from the decommissioning estimate.
- 8. Access roads, parking areas, storage yards, crane pads, and all other areas constructed from asphalt, concrete, gravel, or compactable fill will be removed, recycled, and reclaimed.
- 9. Crushed rock from roads, balance-of-plant areas, and turbine foundation areas was assumed to have value as a commodity for reuse. The cost to remove the crushed rock, load it into dump trucks, and haul it offsite is assumed to be at the expense of the Project.
- 10. It was assumed that all disturbed areas will be restored to original grade, reclaimed with native soils, seeded, and replanted with native vegetation consistent with the surrounding land use.
- 11. Transformers will be removed and processed on-site. The cost to drain and dispose of transformer oil off-site is included in the decommissioning cost estimate.
- 12. The Project laydown yard utilized during construction of the Project was assumed to have been previously reclaimed and restored; no further grading, seeding, or other restoration of the laydown yard is included in this estimate.
- 13. Cost estimates include 5 percent indirect and 20 percent contingency.
- 14. Market conditions may result in cost variations at the time of contract execution.

APPENDIX A - COST ESTIMATE SUMMARIES

Table A-1: Estimated Cost for Wind Turbine Decommissioning (2023\$)

Heritage Prairie Wind - Livingston County Turbine Type A Wind Project Decommissioning Cost Evaluation

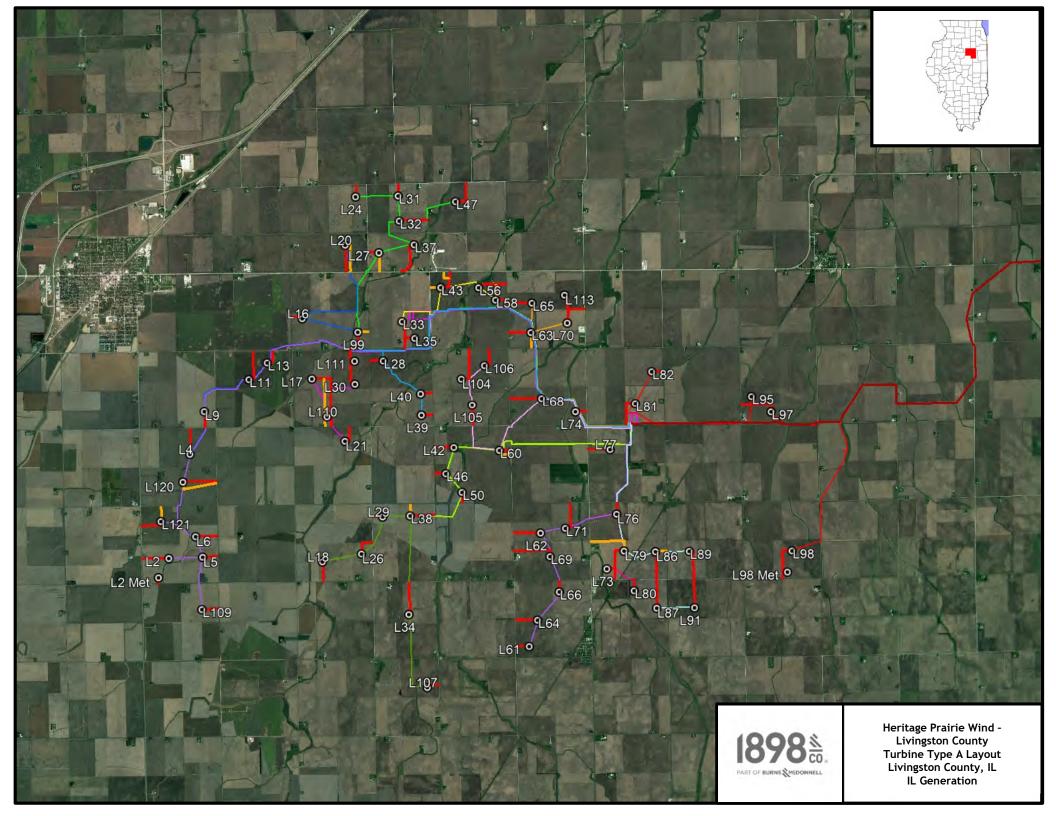
Wind Turbine Removal Cost			
Removal		\$	4,861,000
Hauling & Disposal		\$	1,073,000
Total		\$ \$ \$ \$	5,934,000
Scrap Value		\$	(11,938,000)
Wind Turbine Foundation Removal Cos	st		
Removal		\$	1,988,000
Hauling & Disposal		\$ \$ \$	2,687,000
Total		\$	4,675,000
Substation Removal Cost			
Removal		\$	291,000
Hauling & Disposal		\$ \$ \$ \$	39,000
Total		\$	330,000
Scrap Value		\$	(280,000)
Transmission Line Removal Cost			
Equipment Removal		\$	512,000
Hauling & Disposal		\$ \$ \$	42,000
Total		\$	554,000
Scrap Value		\$	(372,000)
Civil Works Removal Cost			
Removal		\$	382,000
Hauling & Disposal		\$	1,271,000
Grading & Seeding Costs		\$ \$ \$	193,000
Total		\$	1,846,000
O&M Facility Removal			
Removal		\$	48,000
Hauling & Disposal		\$ \$ \$ \$	74,000
Total		\$	122,000
Scrap Value		\$	(22,000)
Met Tower Removal			
Removal		\$	23,000
Total		\$	23,000
Scrap Value		\$	(2,000)
Other Costs			
Oils & Chemicals Removal & Dispo	osal	\$ \$	51,000
Total		\$	51,000
	Total Fatimeter d Coord	ć	12 525 000
	Total Estimated Cost	\$	13,535,000
	Owner Indirects (5%)	\$	676,750
	Contingency (20%)	\$	2,707,000
	Total Gross Cost	\$	16,918,750
	Total Scrap Value	\$ \$	(12,614,000)
	Total Net Cost	Ş	4,304,750

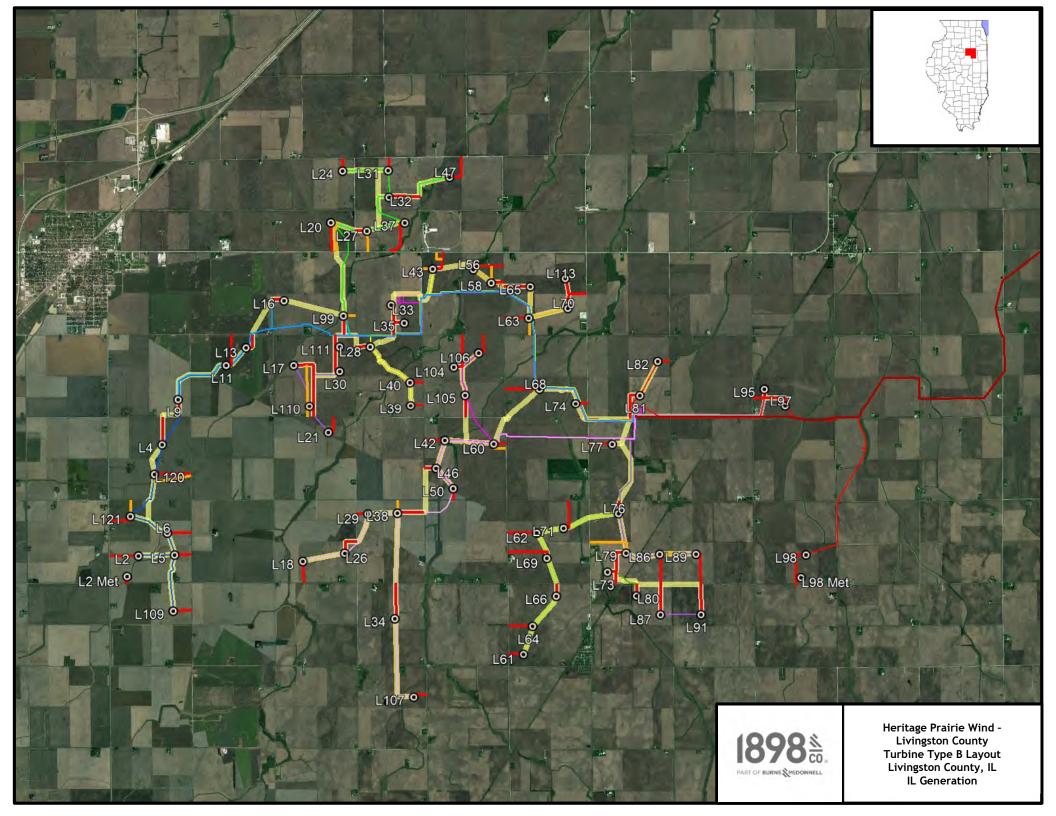
Table A-2: Estimated Cost for Wind Turbine Decommissioning (2023\$)

Heritage Prairie Wind - Livingston County Turbine Type B Wind Project Decommissioning Cost Evaluation

Wind Turbine Removal Cost			
Removal		Ś	4,861,000
Hauling & Disposal		Ś	742,000
Total		\$ \$ \$	5,603,000
Scrap Value		\$	(8,702,000)
Wind Turbine Foundation Removal Cost			
Removal		\$	1,988,000
Hauling & Disposal		\$ \$ \$	2,687,000
Total		\$	4,675,000
Substation Removal Cost			
Removal		\$	291,000
Hauling & Disposal		\$ \$ \$	39,000
Total		\$	330,000
Scrap Value		\$	(280,000)
Transmission Line Removal Cost			
Equipment Removal		\$	512,000
Hauling & Disposal		\$ \$ \$	42,000
Total		\$	554,000
Scrap Value		\$	(372,000)
Civil Works Removal Cost			
Removal		\$	382,000
Hauling & Disposal		\$	1,271,000
Grading & Seeding Costs		\$ \$ <u>\$</u>	193,000
Total		\$	1,846,000
O&M Facility Removal			
Removal		\$	48,000
Hauling & Disposal		\$	74,000
Total		\$ \$ \$ \$	122,000
Scrap Value		\$	(22,000)
Met Tower Removal			
Removal		\$	23,000
Total		\$	23,000
Scrap Value		\$	(2,000)
Other Costs			
Oils & Chemicals Removal & Disposal		\$ \$	51,000
Total		\$	51,000
		<u> </u>	
	al Estimated Cost	\$	13,204,000
	ner Indirects (5%)	\$	660,200
C	ontingency (20%)	\$	2,640,800
	Total Gross Cost	\$	16,505,000
	Total Scrap Value	\$	(9,378,000)
	Total Net Cost	\$	7,127,000

APPENDIX B - PLANT AERIAL







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AIMA

AGRICULTURAL IMPACT MITIGATION AGREEMENT between **ILLINOIS GENERATION LLC** and the ILLINOIS DEPARTMENT OF AGRICULTURE Pertaining to the Construction of a Commercial Wind Energy Facility in

Kankakee and Livingston Counties, Illinois

The following standards and policies are required by the Illinois Department of Agriculture (IDOA) to help preserve the integrity of any agricultural land that is impacted by the Construction and Deconstruction of a wind energy facility in accordance with the Renewable Energy Facilities Agricultural Impact Mitigation Act (Act), Public Act 100-0598. They were developed with the cooperation of agricultural agencies, organizations, Landowners, Tenants, drainage contractors, and wind energy companies to comprise this Agricultural Impact Mitigation Agreement (AIMA). This AIMA is made and entered into between the Commercial Wind Energy Facility Owner and the IDOA.

Illinois Generation LLC, a Delaware limited liability company authorized to transact business in Illinois, hereafter referred to as "Commercial Wind Energy Facility Owner or Facility Owner", plans to develop an approximately 800 MW Commercial Wind Energy Facility or "Facility" in Kankakee and Livingston Counties, which will consist of approximately 200 turbines, access roads, an underground collection line, a switchyard, a substation, and an operation and maintenance building site.

If construction does not commence within four years after this AIMA has been fully executed, this AIMA will be revised, with the Facility Owner's input, to reflect the IDOA's most current Wind Farm Construction and Deconstruction Standards and Policies. This AIMA, and any updated AIMA, will be filed with the Kankakee County Board and the Livingston County Board by the Facility Owner.

This AIMA is applicable to Construction and Deconstruction activities occurring partially or wholly on privately owned agricultural land.

Conditions of the AIMA

The actions set forth in this AIMA shall be implemented in accordance with the conditions listed below:

- All Construction or Deconstruction activities may be subject to County or other local Α. requirements. However, the specifications outlined in this AIMA shall be the minimum standards applied to all Construction or Deconstruction activities.
- Except for Section 21(B-F), all actions set forth in this AIMA are subject to modification **B**. through negotiation by Landowners and a representative of the Facility Owner, provided such changes are negotiated in advance of any respective Construction or Deconstruction activities.
- The Facility Owner may negotiate with Landowners to carry out the mitigative actions that С. Landowners wish to perform themselves. In such instances, the Facility Owner will offer Landowners the area commercial rate for their machinery and labor costs.

- D. All mitigative actions will extend to associated future Construction, maintenance, repairs, and Deconstruction of the Commercial Wind Energy Facility.
- E. The Facility Owner will exercise Best Efforts to determine all Landowners and Tenants affected by the Construction and Deconstruction of a Facility. The Facility Owner shall keep the Landowners and Tenants informed of the project's status, meetings, and other factors that may have an impact upon their farming operations.
- F. The Facility Owner agrees to include a statement of its adherence to this AIMA in any environmental assessment and/or environmental impact statement that may be prepared in connection with the Project.
- G. Execution of this AIMA shall be made a condition of any Conditional/Special Use Permit. A copy of this AIMA shall be mailed to each Landowner. Within 30 days of execution of this AIMA, the Facility Owner shall provide postage and mailing labels to the IDOA for mailing to all Landowners. If the Facility Owner becomes aware that a Landowner was not included on the list of Landowners to which a copy of this AIMA was mailed, the Facility Owner shall notify the Department and provide postage and a mailing label as soon as possible.

In the case of a new Underlying Agreement with a Landowner, the Facility Owner shall incorporate this AIMA into such Underlying Agreement.

- H. The Facility Owner will implement all mitigative actions to the extent that they do not conflict with the requirements of any applicable federal, state and local rules and regulations and other permits and approvals that are obtained by the Facility Owner for the Project.
- I. If any mitigative action(s) is held to be unenforceable, no other provision shall be affected by that holding, and the remainder of the mitigative actions shall be interpreted as if they did not contain the unenforceable provision.
- J. No later than 45 days prior to the Construction and/or Deconstruction of a Commercial Wind Energy Facility, the Facility Owner will provide the Landowner(s) with a toll-free number the Landowner can call to alert the Facility Owner should the Landowner(s) have questions or concerns with the work which is being done or has been carried out on his/her property.
- K. If the Facility is sold or transferred, the Facility Owner assuming ownership of the facility shall provide notice of such sale or transfer within ninety (90) days to the County and to Landowners, and the existing Financial Assurance requirements, plus the other terms of this AIMA, shall apply to the new Facility Owner.
- L. After construction, the Facility Owner will provide the IDOA with "as built" drawings (strip maps) showing the location of all tiles lines damaged in the construction of the Wind Farm. The drawings and GPS tile lines repair coordinates will be provided on a county-by-county basis for distribution by the IDOA to the respective local Soil and Water Conservation District (SWCD) for the purpose of assisting Landowners with future drainage needs.
- M. In addition, after all construction is complete, all affected Landowners will receive a copy of the tile repairs location map with GPS coordinates identified as the electric cable crosses their property.
- N. The Facility Owner shall comply with all local, state and federal laws and regulations, specifically including the worker protection standards to protect workers from pesticide exposure.

Definitions

- Abandonment Occurs when Deconstruction has not been completed within 18 months after the wind energy facility reaches the end of its Useful Life.
- Aboveground Cable Electrical power lines installed above grade to be utilized for conveyance of power from the Wind Turbine(s) to the Wind Facility substation.
- Agricultural ImpactMitigation Agreement(AIMA) -The Agreement between the Commercial Wind Energy FacilityOwner and the Illinois Department of Agriculture described herein.
- Agricultural Land -Land used for Cropland, hayland, pasture land, managed woodlands, truck gardens, farmsteads, commercial ag-related facilities, feedlots, livestock confinement systems, land on which farm buildings are located, and land in government set-aside programs used for purposes as set forth above.

Best Efforts - Diligent, good faith, and commercially reasonable efforts to achieve a given objective or obligation.

Commercial Operation Date -Within ten (10) calendar days of the Commercial Operation Date, the Commercial Wind Energy Facility Owner shall notify the County and the Department of the Commercial Operation Date in writing.

Energy Facility (Facility) - A wind energy conversion facility of equal or greater than 500 kilowatts in total nameplate generating capacity. "Commercial Wind Energy Facility" includes a wind energy conversion facility seeking an extension of a permit to construct granted by a county or municipality before the effective date of this Act. "Commercial Wind Energy Facility" does not include a wind energy conversion facility: (1) that has submitted a complete permit application to a county or municipality and for which the hearing on the completed application has commenced on the date provided in the public hearing notice, which must be before the effective date of this Act; (2) for which a permit to construct has been issued before the effective date of this Act; or (3) that was constructed before the effective date of this Act.

Commercial Wind Energy
Facility Owner
(Facility Owner) -A commercial enterprise that owns or operates a Wind Energy Facility
of equal to or greater than 500 kilowatts in total nameplate capacity.County -The County where the Commercial Wind Energy Facility is located.

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Commercial Wind

ILLINOIS GENERATION LLC 2023 Agricultural Impact Mitigation Agreement

The installation, preparation for installation and/or repair of a Construction -**Commercial Wind Energy Facility.** Land used for growing row crops, small grains, or hay; includes land Cropland which was formerly used as cropland, but is currently in a government set-aside program and pastureland comprised of Prime Farmland. The removal of a Commercial Wind Energy Facility from the Deconstruction property of a Landowner and the restoration of that property as provided in the Agricultural Impact Mitigation Agreement. The terms "Deconstruction" and "Decommissioning" have the same meaning and, therefore, may be interchanged with each other. A plan prepared by a Professional Engineer, at the Commercial Deconstruction Plan -Wind Energy Facility Owner expense, that includes: (1) the estimated Deconstruction cost per turbine, in current dollars at the time of filing, for the Commercial Wind Energy Facility, taking into account, among other things: the number of Wind Turbines and related Commercial í. Wind Energy Facilities involved, ii the original Construction costs of the Commercial Wind Energy Facilities, iii the size and capacity of the Wind Turbines, iv the salvage value of the Commercial Wind Energy Facilities. v the Construction method and techniques for the Wind Turbines and other Commercial Wind Energy Facilities, and (2) a comprehensive detailed description of how the Commercial Wind Energy Facility Owner plans to pay for the Deconstruction of the Commercial Wind Energy Facility. The Illinois Department of Agriculture (IDOA). Department -A reclamation bond or other commercially available financial Financial Assurance assurance that is acceptable to the County, with the County as primary beneficiary and the Landowners as secondary beneficiaries. Any person with an ownership interest in property that is used for Landowner agricultural purposes and that is party to an Underlying Agreement. Agricultural Land comprised of soils that are defined by the USDA Prime Farmland -Natural Resources Conservation Service (NRCS) as being "prime" soils (generally considered the most productive soils with the least input of nutrients and management).

ILLINOIS GENERATION LLC 2023 Agricultural Impact Mitigation Agreement

Professional Engineer -	An engineer licensed to practice engineering in the State of Illinois, and who is determined to be qualified to perform the work described herein by mutual agreement of the County and the Commercial Wind Energy Facility Owner.
Soil and Water Conservation District - (SWCD)	A local unit of government that provides technical and financial assistance to eligible landowners for the conservation of soil and water resources.
Tenant -	Any person lawfully residing or leasing/renting land that is subject to an Underlying Agreement.
Topsoil -	The uppermost layer of the soil that has the darkest color or the highest content of organic matter; more specifically, it is defined as the "A" horizon.
Underlying Agreement -	The written agreement with a Landowner(s) including, but not limited to, an easement, option, lease, or license under the terms of which another person has constructed, constructs, or intends to construct a Commercial Wind Energy Facility on the property of the Landowner.
Underground Cable -	Electrical power lines installed below grade to be utilized for conveyance of power from the Wind Turbine(s) to the Wind Facility substation.
USDA Natural Resources Conservation Service (NRCS) -	NRCS provides America's farmers with financial and technical assistance to voluntarily put conservation on the ground, not only helping the environment but agricultural operations too.
Useful Life -	A Commercial Wind Energy Facility will be presumed to have no remaining Useful Life if: (1) no electricity is generated for a continuous period of twelve (12) months and (2) the Commercial Wind Energy Facility Owner fails, for a period of 6 consecutive months, to pay the Landowner amounts owed in accordance with the Underlying Agreement.
Wind Turbine -	A wind energy conversion unit equal to or greater than 500 kilowatts in total nameplate generating capacity.

Construction and Deconstruction Requirements

1. Support Structures

- A. On Agricultural Land, only single pole support structures will be used for overland transmission not located adjacent to the Commercial Wind Energy Facility substation.
- B. Where the electric line is adjacent and parallel to highway and/or railroad right-of-way, but on privately owned property, the support structures will be placed as close as reasonably practicable and allowable by the applicable County Engineer or other applicable authorities to the highway or railroad right-of-way. The only exceptions may be at jogs or weaves on the highway alignment or along highways or railroads where transmission and distribution lines are already present.
- C. The highest priority will be given to locating the electric line parallel and adjacent to highway and/or railroad right-of-way. When this is not possible, Best Efforts will be expended to place all support poles in such a manner so as to minimize their placement on Cropland (i.e., longer than normal spans will be utilized when traversing Cropland).

2. Aboveground Facilities

Locations for Facilities shall be selected in a manner so as to be as unobtrusive as reasonably possible to ongoing agricultural activities occurring on the land that contains the facilities. The Facility Owner's compliance with applicable local, county, state, and federal statutes, rules, regulations, and ordinances, and its securing any variations or waivers to such statutes, rules, regulations, and ordinances in accordance with applicable law, in selecting such locations shall constitute compliance with this provision.

3. Guy Wires and Anchors

- A. Best Efforts will be made to place guy wires and their anchors out of cropland, pastureland and hayland, placing them instead along existing utilization lines and on land not used for row crops, pasture or hay. Where this is not feasible, Best Efforts will be made to minimize guy wire impact on Cropland.
- B. All guy wires will be shielded with highly visible guards.

4. Underground Cabling Depth

A. Underground electrical cables will be buried with:

- 1. a minimum of 5 feet of top cover where it crosses Cropland.
- 2. a minimum of 5 feet of top cover where it crosses pasture land or other Agricultural Land comprised of soils that are classified by the USDA as being prime soils.
- 3. a minimum of 3 feet of top cover where it crosses pasture land and other Agricultural Land not comprised of prime soils.
- 4. a minimum of 3 feet of top cover where it crosses wooded/brushy land.

B. Notwithstanding the foregoing, in those areas where (i) rock in its natural formation and/or (ii) a continuous strata of gravel exceeding 200 feet in length are encountered, the minimum top cover will be 30 inches.

5. Topsoil Removal and Replacement

- A. Any excavation shall be performed in a manner to preserve topsoil. Best Efforts will be made to store the topsoil near the excavation site in such a manner that it will not become intermixed with subsoil materials.
- B. Best Efforts will be made to store all disturbed subsoil material near the excavation site and separate from the topsoil.
- C. When backfilling an excavation site, the stockpiled subsoil material will be placed back into the excavation site before replacing the topsoil.
- D. Refer to Item No. 7.A. through 7.D for procedures pertaining to rock removal from the subsoil and topsoil.
- E. Refer to Items No. 8.A. through 8.D. for procedures pertaining to the alleviation of compaction of the topsoil.
- F. Best Efforts will be performed to place the topsoil in a manner so that after settling occurs, the topsoil's original depth and contour (with an allowance for settling) will be restored as close as reasonably practicable. The same shall apply where excavations are made for road, stream, drainage ditch, or other crossings. In no instance will the topsoil materials be used for any other purpose unless agreed to otherwise by the Landowner.
- G. Excess subsoil material resulting from wind turbine foundation excavation shall be removed from Landowner's property, unless otherwise agreed to by Landowner.
- H. Topsoil stripping or separation is not required for the excavation of narrow trenches, those 24 inches wide or less.

6. Repair of Damaged Tile Lines

If underground drainage tile is damaged by Construction or Deconstruction, it will be repaired in a manner that assures the tile line's proper operation at the point of repair. The following shall apply to the tile line repair:

- A. The Facility Owner will work with the Landowner to identify the tile lines traversing the property included within the Underlying Agreement which will be crossed or disturbed by the construction of the Facility. All tile lines identified in this manner will be shown on the Construction and Deconstruction Plans and staked or flagged in the locations where expected crossing or disturbance is anticipated prior to Construction or Deconstruction to alert Construction and Deconstruction crews to the possible need for tile line repairs.
- B. Tile lines that are damaged, cut, or removed shall be staked or flagged with stakes or flags placed in such a manner they will remain visible until the permanent repairs are completed. In addition, the location of damaged drain tile lines will be recorded using Global Positioning Systems (GPS) technology.

- C. If water is flowing through any damaged tile line, the Facility Owner shall utilize Best Efforts to immediately and temporarily repair the tile line until such time that the Facility Owner can make permanent repairs. If the tile lines are dry and water is not flowing, temporary repairs are not required if the permanent repairs can be made by the Facility Owner within 14 days (weather and soil conditions permitting) of the time damage occurred; however, the exposed tile lines will be screened or otherwise protected to prevent the entry of foreign materials or animals into the tile lines.
- D. Where tile lines are severed by an excavation trench, repairs shall be made using the IDOA Drain Tile Repairs, Figures 1 and 2.

If there is any dispute between the Landowner and the Facility Owner on the method of permanent tile line repair, the appropriate Soil and Water Conservation District's opinion shall be considered by the Facility Owner and the Landowner.

- E. To the extent practicable, there will be a minimum of one foot of separation between the tile line and the Underground Cable whether the Underground Cable passes over or under the tile line. If the tile line was damaged as part of the excavation for installation of the Underground Cable, the Underground Cable will be installed with a minimum one foot clearance below or over the tile line to be repaired or otherwise to the extent practicable.
- F. The original tile line alignment and gradient shall be maintained. A laser transit shall be used to ensure the proper gradient is maintained. A laser operated tiling machine shall be used to install or replace tiling segments of 100 linear feet or more.
- G. During Construction stage, all permanent tile line repairs must be made within fourteen (14) days of identification or notification of the damage, weather and soil conditions permitting. At other times, such repairs must be made at a time mutually agreed upon by the Facility Owner and the Landowner.
- H. Following Construction and/or Deconstruction activities, the Facility Owner will utilize best practices to restore the drainage in the area to the condition it was before the commencement of the Construction/Deconstruction activities. If the Facility Owner cannot agree upon a reasonable method to complete this restoration, the Facility Owner may – but is not required to – implement the recommendations of the appropriate County SWCD and such implementation would resolve the dispute.
- I. Following completion of the work, the Facility Owner will be responsible for correcting or paying for the correction of all tile line repairs that fail due to Construction and/or Deconstruction, provided any such failure was identified by Landowner within twenty-four (24) months after Construction or Deconstruction. The Facility Owner will not be responsible for tile line repairs that the Facility Owner pays the Landowner to perform. Facility Owner shall use Best Efforts to utilize a local drain tile repair company.

7. Rock Removal

The following rock removal procedures only pertain to rocks found in the uppermost 42 inches of soil, the common freeze zone in Illinois, which emerged on Landowner property as a result of Construction and/or Deconstruction.

A. Before replacing any Topsoil, Best Efforts will be taken to remove all rocks greater than 3 inches in any dimension from the surface of exposed subsoil which were brought to the site as a result of Construction and/or Deconstruction.

- B. As topsoil is replaced, all rocks greater than 3 inches in any dimension will be removed from the topsoil which emerged at the site as a result of Construction and/or Deconstruction activities.
- C. If trenching, blasting, or boring operations are required through rocky terrain, precautions will be taken to minimize the potential for oversized rocks to become interspersed with adjacent soil material.
- D. Rocks and soil containing rocks removed from the subsoil areas, topsoil, or from any excavations, will be hauled off the Landowner's premises or disposed of on the Landowner's premises at a location that is mutually acceptable to the Landowner and the Facility Owner.

8. Compaction and Rutting

- A. Unless the Landowner opts to do the restoration work, after the topsoil has been replaced, all areas that were traversed by vehicles and Construction and/or Deconstruction equipment will be ripped at least 18 inches deep, and all pasture and woodland will be ripped at least 12 inches deep to the extent practicable. The existence of tile lines or underground utilities may necessitate less depth. The disturbed area will then be disked. Decompaction shall be conducted according to the guidelines provided in Appendices A and B.
- B. To the extent practicable, all ripping and disking will be done at a time when the soil is dry enough for normal tillage operations to occur on land adjacent to the right-of-way.
- C. The Facility Owner will restore all rutted land to a condition as close as possible to its original condition.
- D. If there is any dispute between the Landowner and the Facility Owner as to what areas need to be ripped/disked or the depth at which compacted areas should be ripped/disked, the appropriate County SWCD's opinion shall be considered by the Facility Owner and the Landowner.

9. Construction During Wet Weather

Except as provided below, construction activities are not allowed on farmland where normal farming operations, such as plowing, disking, planting or harvesting, cannot take place due to excessively wet soils. Wet weather conditions are to be determined on a field by field basis and not for the project as a whole.

- A. Construction activities on prepared surfaces, surfaces where topsoil and subsoil have been removed, heavily compacted in preparation, or otherwise stabilized (e.g. through cement mixing) may occur at the discretion of the Facility Owner in wet weather conditions.
- B. Construction activities on unprepared surfaces will be done only when work will not result in rutting which results in a mixing of subsoil and topsoil. Determination as to the potential of subsoil and topsoil mixing will be in consultation with the underlying Landowner, or, if approved by the Landowner, his/her designated Tenant.

10. Land Leveling

- A. Following the completion of Construction and/or Deconstruction of a Commercial Wind Energy Facility, the Facility Owner will utilize Best Efforts to restore the disturbed area to its original pre-construction elevation and contour should uneven settling occur or surface drainage problems develop as a result of said activity.
- B. If, within twenty-four (24) months after Construction or Deconstruction, uneven settling occurs or surface drainage problems develop as a result of the Construction or Deconstruction of a Facility, the Facility Owner will provide such land leveling services within 45 days of a Landowner's written notice, weather and soil conditions permitting.
- C. If there is any dispute between the Landowner and the Facility Owner as to what areas need additional land leveling beyond that which is done at the time of Construction, the Facility Owner may but is not required to implement the recommendations of the appropriate SWCD and such implementation will resolve the dispute.

11. Prevention of Soil Erosion

- A. The Facility Owner will work with Landowners to prevent excessive erosion on land that has been disturbed by Construction or Deconstruction of a Commercial Wind Energy Facility. Consultation with the local SWCD by the Facility Owner will take place to determine the appropriate methods to be implemented to control erosion. This is not a requirement, however, if the land is bare Cropland that the Landowner intends to leave bare until the next crop is planted.
- B. If the Landowner and Facility Owner cannot agree upon a reasonable method to control erosion on the Landowner's right-of-way, the Facility Owner may but is not required to implement the recommendations of the appropriate SWCD and such implementation will resolve the dispute.

12. Repair of Damaged Soll Conservation Practices

Consultation with the local SWCD by the Facility Owner will be carried out to determine if there are soil conservation practices (such as terraces, grassed waterways, etc.) that will be damaged by the Construction and/or Deconstruction of a Commercial Wind Energy Facility. Those conservation practices will be restored to their preconstruction condition as close as reasonably practicable in accordance with USDA Natural Resources Conservation Service technical standards. All repair costs shall be borne by the Facility Owner.

13. Damages to Private Property

The Facility Owner will reasonably compensate Landowners for damages caused by the Facility Owner. Damage to Cropland will be reimbursed to the Landowner as prescribed in the applicable Underlying Agreement.

14. Clearing of Trees and Brush

- A. If trees are to be removed for the Construction or Deconstruction of a Commercial Wind Energy Facility, the Facility Owner will consult with the Landowner to determine if there are trees of commercial or other value to the Landowner.
- B. If there are trees of commercial or other value to the Landowner, the Facility Owner will allow the Landowner the right to retain ownership of the trees to be removed with

the disposition of the removed trees to be negotiated prior to the commencement of land clearing.

C. Unless otherwise restricted by federal, state or local regulations, the Facility Owner will follow the Landowner's desires regarding the removal and disposal of trees, brush, and stumps of no value to the Landowner by burning, burial, etc., or complete removal from any affected property.

15. Interference with Irrigation Systems

- A. If the Construction or Deconstruction of a Commercial Wind Energy Facility interrupts an operational (or soon to be operational) spray irrigation system, the Facility Owner will establish with the Landowner an acceptable amount of time the irrigation system may be out of service.
- B. If, as a result of Construction or Deconstruction of a Facility, an irrigation system interruption results in crop damages, the Landowner will be compensated for all such crop damages per the applicable Underlying Agreement.
- C. If it is feasible and mutually acceptable to the Facility Owner and the Landowner, temporary measures will be implemented to allow an irrigation system to continue to operate across land on which a Facility is also being Constructed or Deconstructed.

16. Access Roads

- A. To the extent practicable, access roads will be designed to not impede surface drainage and will be built to minimize soil erosion on or near the access roads.
- B. Access roads may be left intact through mutual agreement of the Landowner and the Facility Owner unless otherwise restricted by federal, state, or local regulations after the Useful Life.
- C. If the access roads are removed, Best Efforts will be expended to assure that the land shall be restored to equivalent condition(s) as existed prior to their construction, or as otherwise agreed to by the Facility Owner and the Landowner. All access roads that are removed shall be ripped to a depth of 18 inches. All ripping will be done consistent with Items 8.A. through 8.D.

17. Weed Control

- A. The Facility Owner will provide for weed control in a manner that prevents the spread of weeds onto agricultural land affected by Construction or Deconstruction. Spraying will be done by a pesticide applicator that is appropriately licensed for doing such work in the State of Illinois.
- B. The Facility Owner will be responsible for reimbursing all reasonable costs incurred by owners of agricultural land affected by Construction or Deconstruction where it has been determined that weeds have spread from land impacted by the Facility. Reimbursement is contingent upon written notice to the Facility Owner and failure to respond within forty-five (45) days after notice is received.

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18. Pumping of Water from Open Excavations

- A. In the event it becomes necessary to pump water from open excavations, the Facility Owner will pump the water in a manner that will avoid damaging agricultural land affected by Construction or Deconstruction. Such damages include, but are not limited to: inundation of crops for more than 24 hours, deposition of sediment in ditches and other water courses, and the deposition of subsoil sediment and gravel in fields and pastures.
- B. If it is impossible to avoid water-related damages as described in Item 18.A. above, the Facility Owner will compensate the Landowner for damages to crops as prescribed in the applicable Underlying Agreement.
- C. All pumping of water shall comply with existing drainage laws, local ordinances relating to such activities and any other applicable laws, specifically including the Clean Water Act.

19. Advance Notice of Access to Private Property

- A. The Facility Owner will provide the Landowner or Tenant with a minimum of 48 hours prior notice before accessing his/her property for the purpose of Construction or Deconstruction of a Commercial Wind Energy Facility.
- B. Prior notice shall consist of either: (i) a personal contact, telephone contact or email contact, whereby the Landowner or tenant is informed of the Facility Owner's intent to access the land; or (ii) the Facility Owner mails or hand delivers to the Landowner or tenant's home a dated, written notice of the Facility Owner's intent. Such written or hand delivered notice shall include a toll-free number at which agents of the Facility Owner can be reached. The Landowner or tenant need not acknowledge receipt of the written notice before the Facility Owner can enter the Landowner's property.

20. Indemnification

The Commercial Wind Energy Facility Owner will indemnify all Landowners, their heirs, successors, legal representatives, and assigns from and against all claims, injuries, suits, damages, costs, losses, and reasonable expenses resulting from or arising out of Construction and/or Deconstruction, including damage to such Commercial Wind Energy Facility or any of its appurtenances, except where claims, injuries, suits, damages, costs, losses, and expenses are caused by the negligence or intentional acts, or willful omissions of such Landowners, and/or the Landowners heirs, successors, legal representatives, and assigns. In such circumstances, the Landowners, and the Landowners' heirs, successors, legal representatives, and assigns will indemnify the Facility Owner, its heirs, successors, legal representatives, and assigns from and against said claims, injuries, suits, damages, costs, losses, and reasonable expenses including but not limited to attorneys' fees and costs.

21. Deconstruction of Commercial Wind Energy Facilities and Financial Assurance

- A. Deconstruction of a Facility shall include the removal/disposition of the following equipment/facilities utilized for operation of the Facility and located on Landowner property:
 - 1. Wind Turbine towers and blades;

- 2. Wind Turbine generators;
- 3. Wind Turbine foundations (to depth of 5 feet);
- 4. Transformers;
- Collection/interconnection substation (components, cable, and steel foundations), provided, however, that electrical collection cables at a depth of 5 feet or greater may be left in place;
- 6. Overhead collection system;
- Operations/maintenance buildings, spare parts buildings and substation/ switching gear buildings unless otherwise agreed to by the Landowner;
- Access Road(s) (unless Landowner requests in writing that the access road is to remain);
- 9. Operation/maintenance yard/staging area unless otherwise agreed to by the Landowner; and
- 10. Debris and litter generated by Deconstruction and Deconstruction crews.
- B. The Facility Owner shall, at its expense, complete Deconstruction of a Commercial Wind Energy Facility within eighteen (18) months after the end of the Useful Life of the Facility.
- C. During the County permit process, the Facility Owner shall file with the County, a Deconstruction Plan. A second Deconstruction Plan shall be filed with the County on or before the end of the tenth year of the Commercial Operation Date.
- D. The Facility Owner shall provide the County with Financial Assurance to cover the estimated costs of Deconstruction of the Commercial Wind Energy Facility. Provision of this Financial Assurance shall be phased in over the first 11 years of the Project's operation as follows:
 - On or before the first anniversary of the Commercial Operation Date, the Facility Owner shall provide the County with Financial Assurance to cover ten (10) percent of the estimated costs of Deconstruction of the Facility as determined in the Deconstruction Plan provided during the county permit process.
 - On or before the sixth anniversary of the Commercial Operation Date, the Facility Owner shall provide the County with Financial Assurance to cover fifty (50) percent of the estimated costs of Deconstruction of the Facility as determined in the Deconstruction Plan provided during the county permit process.
 - 3. On or before the eleventh anniversary of the Commercial Operation Date, the Facility Owner shall provide the County with Financial Assurance to cover one hundred (100) percent of the estimated costs of Deconstruction of the Facility as determined in the Deconstruction Plan provided during the tenth year of the Commercial Operation Date.

The Financial Assurance shall not release the surety from liability until the Financial Assurance is replaced. The salvage value of the Facility may only be used to reduce the estimated costs of Deconstruction in the Deconstruction Plan if the County agrees that all interests in the salvage value are subordinate or have been subordinated to that of the County if Abandonment occurs.

- E. The County may but is not required to reevaluate the estimated costs of Deconstruction of any Commercial Wind Energy Facility after the tenth anniversary, and every five years thereafter, of the Commercial Operation Date which reevaluation must be performed by an independent third party Professional Engineer licensed in the State of Illinois. The County shall provide the Facility Owner with a copy of any reevaluation report. Based on any reevaluation, the County may require changes in the level of Financial Assurance used to calculate the phased coverages described in Section 21 D. required from the Facility Owner. The Facility Owner shall be responsible for the cost of any reevaluation by a third party Professional Engineer.
- F. Upon Abandonment, the County may take all appropriate actions for Deconstruction, including drawing upon the Financial Assurance. In the event the County declines to take any action for Deconstruction, the Landowners may draw upon the Financial Assurance.

Concurrence of the Parties to this AIMA

The Illinois Department of Agriculture and Illinois Generation LLC concur that this AIMA is the complete AIMA governing the mitigation of agricultural impacts that may result from the construction of the wind farm project in Kankakee and Livingston Counties within the State of Illinois.

The effective date of this AIMA commences on the date of execution.

STATE OF ILLINOIS DEPARTMENT OF AGRICULTURE

By Jerry Costello II, Director

By Toss Feagans, General Counsel Clay Nords: ch, Apply General Counsel

801 E. Sangamon Avenue, 62702 State Fairgrounds, POB 19281 Springfield IL 62794-9281

2024

ILLINOIS GENERATION LLC, a Delaware limited liability company

By Lauren Hiller, Authorized Signatory

By Caton Fenz

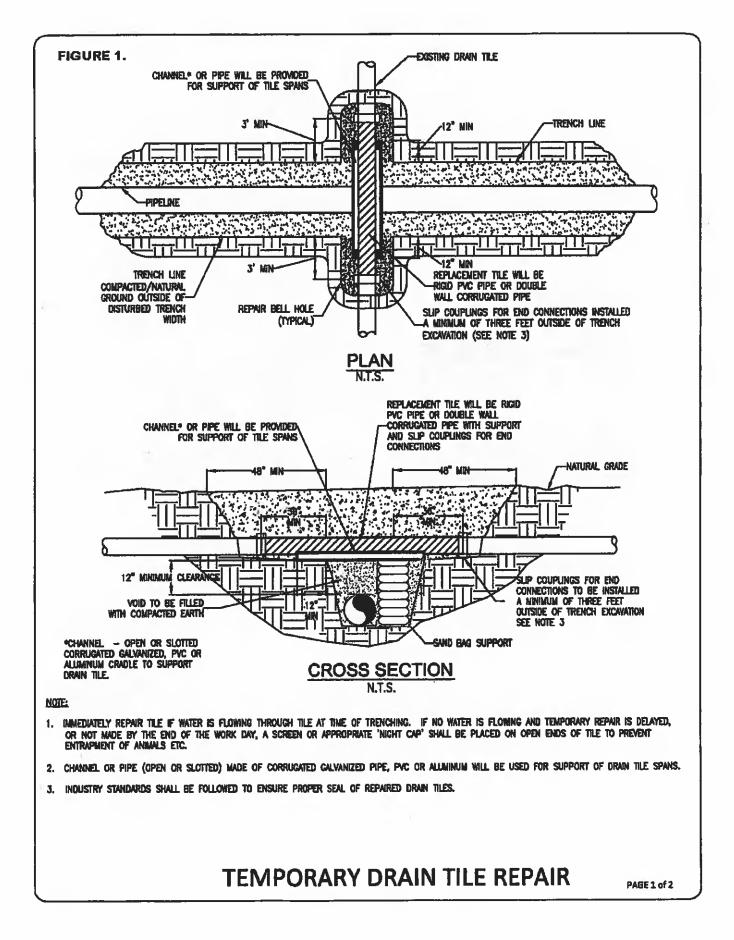
Authorized Signatory

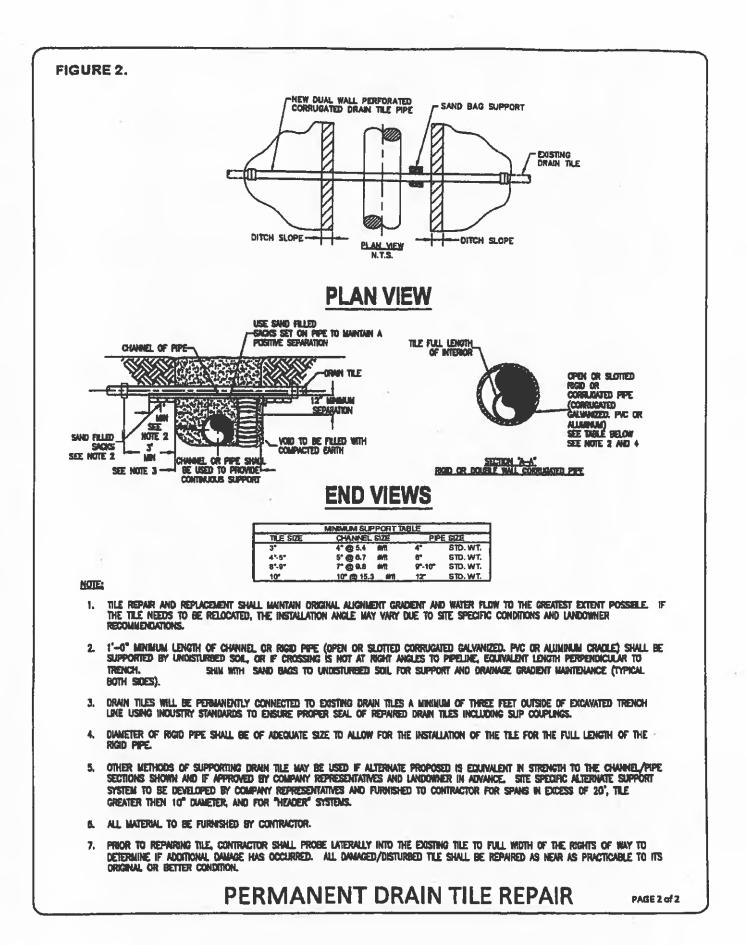
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January , 2024

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Appendix A.

Guidelines for Conducting Proper and Successful Decompaction

- 1. Decompaction is required when all three conditions apply.
 - A. the area has been trafficked or traversed by vehicles or construction equipment, and
 - B. the soil penetrometer readings are 300 psi or greater, and
 - C. The soil strength (psi) in the right-of-way area is greater than that of the non-trafficked area.
- 2. An Environmental and/or Agricultural Inspector (AI), with experience and training in the proper identification of compacted soil and operation methods of deep decompaction tools is required to observe the daily operation of the ripper/subsoiler to ensure the conditions are appropriate for decompaction efforts and that the proper equipment is utilized and that equipment is set-up and operated correctly.
- 3. To achieve the most effective shatter of the compacted soil the following guidelines have been established:
 - A. Conduct ripping when the soil is dry. Follow the "Soil Plasticity Test Procedures" detailed in Appendix B to determine if soil conditions are adequately dry to conduct decompaction efforts.
 - B. Deep ripping shall be conducted using a ripper or subsoiling tool with a shank length of no less than 18 inches and a shank spacing of approximately the same measurement as the shank length.
 - C. Use a ripper with a knife length of no less than 2 inches more than the desired depth of decompaction.
 - D. To best promote revegetation and restore crop production, a total depth of 30 or more inches of soil (topsoil plus subsoil) is required.
 - E. The minimum depths of decompaction stated above in 3.D. are required where possible. A safe distance from sub-surface structures (tile drains, pipelines, buried utilities, bedrock, etc.) must be maintained at all times. Where such structures exist, a lesser depth of decompaction will be required to prevent damage to equipment and the structures as well as to maintain a safe work environment. The allowable decompaction depth in these instances will be determined on a site by site basis.
 - F. When the knives are in the soil to the desired depth, the tongue of the ripper should be parallel to the surface of the ground.
 - G. Select a tractor that has enough horsepower to pull the ripper at a speed of 1.5 to 2 mph and whose footprint is of equal or lesser width than the ripper. Tracked equipment is preferred and typically required to achieve this criteria.
 - H. The ripper shanks should not create ruts, channels, or mixing of the sub-soil with topsoil. A speed of 1.5 to 2 mph is recommended to minimize the risk of rutting and soil mixing. The ideal operating speed can vary with soil characteristics, tractor and ripping tool used. An excessive travel speed will often increase mixing of soil horizons.
 - I. When the equipment is set up and operated correctly, the ripper should create a wave across the surface of the ground as it lifts and drops the soil.

- J. Make one ripping pass through the compacted area. Using a penetrometer, the AI will measure the PSI between the ripped knife tracks to determine if the single ripping pass was successful. Additional passes should only be used where needed as they may reduce the effectiveness of the ripping by recompacting the soil shattered in the previous pass.
- K. If the first pass does not successfully decompact the soil, additional passes will be needed. Should multiple passes of the ripper be needed to achieve decompaction between the knives tracks of the ripping tool, the subsequent passes should be positioned so the knife tracks from the previous pass are split by the second pass. If three or more passes have been made and sufficient decompaction has not yet been achieved the AI may choose to halt further decompaction efforts in that area until conditions improve or better methods are determined.
- L. Following ripping, all stone and rock three or more inches in size which has been lifted to the surface shall be collected and removed from agricultural areas.
- M. After ripping has been conducted, do not allow unnecessary traffic on the ripped area.
- N. In agricultural lands and croplands that will not be replanted to vegetation by the Company, recommend to landowners to plant a cover crop (cereal rye, clover, alfalfa, tillage radish, turnips, etc.) following decompaction. Reduced compaction created by the ripper pass will not remain over time without subsequent root penetration. Root penetration into the shattered soil is necessary to establish permanent stabilized channels to conduct air and water into the soil profile. Two good sources for landowner cover crop education are <u>http://www.mccc.msu.edu/CCinfo/cropbycrop.html</u> and <u>http://mcccdev.anr.msu.edu/</u>. For local expertise, consult with your county's Soil and Water Conservation District /USDA Natural Resource Conservation Service (NRCS) office for cover crop selection and compliance with NRCS planting deadlines.

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Appendix B.

Soil Plasticity Test Procedures

The Agricultural Inspector will test the consistency of the surface soil to a depth of approximately 4 to 8 inches using the Field Plasticity Test procedure developed from the *Annual Book of ASTM Standards, Plastic Limit of Soils* (ASTM D-4318).

- 1. Pull a soil plug from the area to be tilled, moved, or trafficked to a depth of 4-8 inches.
- 2. Roll a portion of the sample between the palms of the hands to form a wire with a diameter of one-eighth inch.
- 3. The soil consistency is:
 - A. Tillable (able to be worked) if the soil wire breaks into segments not exceeding 3/8 of an inch in length.
 - B. Plastic (not tillable) if the segments are longer than 3/8 of an inch before breaking.
- 4. This Procedure is to be used to aid in determining when soil conditions are dry enough for construction activities to proceed.
- 5. Once the soil consistency has been determined to be of adequate dryness, the plasticity test is not required again until the next precipitation event.

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