

WAYNE MUNICIPAL
AIRPORT AUTHORITY
AGENDA
December 14, 2020
5:30 p.m.

1. Call to Order

Anyone desiring to view the Open Meetings Act may do so. The document is available for public inspection and is located on the east wall of the Airport Terminal Meeting Room as well as on the City of Wayne website at cityofwayne.org/8/Government.

Citizens have the right under the Open Meetings Act to attend all meetings of public bodies. Pursuant to the Governor's Executive Order No. 20-36, this meeting will be held by video/telephone conference. Members of the public may attend this meeting electronically.

Please join this meeting from your computer, tablet, or smartphone by going to the City of Wayne website at cityofwayne.org

The Airport Authority reserves the right to adjourn into executive session as per Section 84-1410 of the Nebraska Revised Statutes.

Public Comments - Anyone desiring to speak on an agenda item is invited to do so, and should limit themselves to three minutes after being recognized by the Chair.

2. Approval of Minutes

3. Approval of Claims

4. New Business

- Approve NDOT Capital Improvement Plan
- Haystack Wind Project notice
- Discussion/possible action Tompkins hangar

5. Old Business

- Parallel taxiway to runway 18/36 paving & lighting update
- Discussion/update on STOL event
- Discussion/possible action to direct staff on farm ground lease
- Flight simulator/club update

6. Airport Manager Comments

7. Adjourn

WAYNE MUNICIPAL AIRPORT AUTHORITY

November 9, 2020

5:30 P.M.

The regular meeting of the Airport Authority of the City of Wayne was called to order on the above date and time at the Nancy Braden Terminal Building by Chairman Travis Meyer. The following members were present: Tom Schmitz, Travis Meyer and David Ley. Also, attending the meeting were Beth Porter Airport Authority Treasurer, Tom Becker, Karma Schulte and Jim Hoffman Becker Flying Service, Curtis Christensen Olsson Inc., Scott Morgan, Dom Consoli, Sandy Hoffman, Nic Kemnitz and David Zach.

Schmitz moved and Meyer 2nd to approve the minutes of the October 12, 2020 regular meeting with corrected spelling of Alexander Retzloff. Roll was called with the following results: Yeas: Schmitz, Meyer, Hammer and Ley. Nays: None. The Chairman declared the motion carried.

Ley moved and Meyer 2nd to accept all the claims presented as of November 9, 2020. Roll was called with the following results: Yeas: Schmitz, Meyer, Hammer, Putnam and Ley. Nays: None. The Chairman declared the motion carried.

Other matters requiring the attention of the Authority were discussed and it was determined that no further formal actions on these matters were needed.

There being no further business, Chairman Meyer adjourned the meeting at 6:20 PM.

David R. Ley, Secretary

WAYNE AIRPORT AUTHORITY
BANK SUMMARY
CHECKING ACCOUNT
NOVEMBER 30, 2020

PREVIOUS BALANCE 219,621.56

DEPOSITS:

Interest on checking account	23.43
Avgas	4,252.63
County Treasurer	2,699.32
State of NE	148,544.00
Farm Income	19,506.37
Accounts receivable	5,917.63

180,943.38

TOTAL AVAILABLE 400,564.94

CLAIMS:

Claims Paid November 165,632.80

BOOK BALANCE AS OF NOVEMBER 30, 2020 234,932.14

Plus Outstanding Checks 866.79

Less Outstanding Deposits 0.00

BANK BALANCE AS OF NOVEMBER 30, 2020 235,798.93

Airport Money Market Account

Date	Transaction	Average Rate	Transaction Amount	Balance
3/18/2019	Opening Balance		\$ 1,000,000.00	\$ 1,000,000.00
3/29/2019	Interest earned	1.83	\$ 702.15	\$ 1,000,702.15
4/30/2019	Interest earned	1.83	\$ 1,506.26	\$ 1,002,208.41
5/31/2019	Interest earned	1.83	\$ 1,558.85	\$ 1,003,767.26
6/28/2019	Interest earned	1.83	\$ 1,510.87	\$ 1,005,278.13
7/31/2019	Interest earned	1.83	\$ 1,563.63	\$ 1,006,841.76
8/31/2019	Interest earned	1.73354	\$ 1,483.46	\$ 1,008,325.22
9/30/2019	Interest earned	1.68666	\$ 1,398.78	\$ 1,009,724.00
10/31/2019	Interest earned	1.60	\$ 1,373.02	\$ 1,011,097.02
11/19/2019	Transfer to checking cost of flight simulator		\$ (92,779.00)	\$ 918,318.02
11/29/2019	Interest earned	1.52	\$ 1,218.18	\$ 919,536.20
12/31/2019	Interest earned	1.50	\$ 1,172.19	\$ 920,708.39
1/31/2020	Interest earned	1.50	\$ 1,170.47	\$ 921,878.86
2/28/2020	Interest earned	1.50	\$ 1,096.30	\$ 922,975.16
3/31/2020	Interest earned	1.33225	\$ 1,042.07	\$ 924,017.23
4/30/2020	Interest earned	0.88916	\$ 673.68	\$ 924,690.91
5/31/2020	Interest earned	0.807	\$ 632.26	\$ 925,323.17
6/30/2020	Interest earned	0.807	\$ 612.27	\$ 925,935.44
7/31/2020	Interest earned	0.707	\$ 554.63	\$ 926,490.07
8/31/2020	Interest earned	0.707	\$ 554.97	\$ 927,045.04
9/28/2020	Transfer to checking cost of jet fuel truck		\$ (28,500.00)	\$ 898,545.04
9/30/2020	Interest earned	0.707	535.73	\$ 899,080.77
10/12/2020	Transfer to checking cost of loan to flying club, retro flying club employment agreement, and OGP 1st payment		\$ (183,525.00)	\$ 715,555.77
10/30/2020	Interest earned	0.62493	\$ 421.41	\$ 715,977.18
11/30/2020	Interest earned	0.548	\$ 321.67	\$ 716,298.85

WAYNE MUNICIPAL
AIRPORT AUTHORITY
December 14, 2020

Ck # 7956	A&R Const.- AIP 3-31-0086-015/016 #1	210,366.53
Ck # 7957	American Broadband- Telephone.....	93.23
Ck # 7958	Appeara- Rugs & mops	61.94
Ck # 7959	Becker Flying Service – Managers contract	3,000.00
	Less FBO lease.....	(100.00)
	Less storage bldg.....	(61.00)
		2,839.00
EFT	Black Hills Energy- Natural gas	522.84
Ck # 7960	Bomgaars- Bits, concrete mix, bolts, tape, light set	69.57
Ck # 7961	Carhart- Keys.....	5.30
Ck # 7962	CenturyLink- DSL	88.99
Ck # 7963	Chesterman Co- Cups and equipment rental	47.00
Ck # 7964	City of Wayne	
	AWOS	25.74
	Apron lighting	48.96
	House.....	187.03
	Terminal/hangar	1,236.84
	Shop.....	115.21
	Office & irrigation.....	179.09
	Postage	58.60
	Ads/notices.....	417.97
	Treasurer's Fee.....	500.00
	2,769.44
EFT	Department of Aeronautics –	
	Hangar Loan H06	1,182.00
	Hangar Loan H07	1,391.00
	AWOS	383.33
	2,956.33
Ck # 7965	Floor Maintenance- Paper towels	38.49
Ck # 7966	Jim Hoffman- Digital TV	49.99
Ck # 7967	John Deere Financial- 5115M; MX10; 644E Parts/service	2,432.33
Ck # 7968	Koenig Enterprises- Air seeding rye.....	1,742.50

Ck # 7969	NAOO- 2021 Dues	250.00
Ck # 7970	Nebraska State Fire Marshal- Annual registration fee	120.00
Ck # 7971	Northeast Nebraska Aviators Inc.-Employment Agmt. Dec 2020.....	2,200.00
Ck # 7972	Northeast Tire Service- Tires & repair	1,359.00
Ck # 7973	Olsson	
	AIP 3-31-0086-0015/16 #12	\$24,020.79
	AIP 3-31-0086-015/016 #13	\$31,404.16
		55,424.95
Ck # 7974	Pac N Save- Coffee, water, soap	62.40
Ck #7975	Two Mile Island- Batteries	353.97
EFT	Verizon – Cell phone	111.97
Ck # 7976	Wisner West- Fuel	185.54
	TOTAL	\$284,151.31

NEBRASKA

Good Life. Great Journey.

DEPARTMENT OF TRANSPORTATION

November 23, 2020

Re: FY 2022-2024 Federal AIP Grants
NDOT Capital Improvement Program

Dear Airport Sponsor:

Your airport is a part of the National Plan for Integrated Airport System (NPIAS) and therefore is eligible for funding through the federal Airport Improvement Program. The FAA beginning to put together the Airport Improvement Plan (AIP) funding for Federal Fiscal Years 2022-2024. To be considered for funding in FY2022 (and beyond), please review the following:

Capital Improvement Plan

Enclosed is the latest *Capital Improvement Plan* for your airport. **Review improvement needs (or wants) at your airport and ensure that they are on the plan.** Please focus on the Phase I developments. An update to the Nebraska Aviation System Plan is underway. This plan will identify needed projects/improvements and develop priorities. Future Capital Improvement Plans will be modified to reflect the recommendations of the System Plan.

Note that AIP is funded by annual appropriation legislation, so the enclosed list is for planning purposes only and is neither a guarantee nor commitment of federal funds. Projects requiring funds in excess of available entitlement are often delayed or split into multiple projects.

Federal Entitlement Funds

Your airport receives federal entitlement to fund eligible projects. The enclosed list titled *Potential Federal Funds Available* provides anticipated available entitlement funds. Note that the 2018 entitlement expires in the current fiscal year. If you have any remaining 2018 entitlement, we encourage you to either use the funds at your airport before they expire or transfer them to another Nebraska airport.

ACIP Data Sheets

To be considered for 2022 federal funding, you need to have an ACIP data sheet for the proposed project approved by the Nebraska Aeronautics Commission and on file with the FAA prior to February 15, 2021. **If your airport needs to submit a data sheet for a planned project, it is noted on the Capital Improvement Plan.** Data sheets can be prepared by you, your consultant, or NDOT. A sample CIP data sheet and instructions are enclosed.

Kyle Schneeweis, P.E., Director

Department of Transportation

1500 Highway 2
PO Box 94759
Lincoln, NE 68509-4759

OFFICE 402-471-4567
FAX 402-479-4325
NDOTContactUs@nebraska.gov

dot.nebraska.gov

Aeronautics Division
3431 Aviation Road, Ste. 150
PO Box 82088
Lincoln, NE 68501
OFFICE 402-471-2371
FAX 402-471-2906

Navigational Aids Office
Kearney Municipal Airport
5065 Airport Road
Kearney, NE 68847
OFFICE 308-865-5696
FAX 308-865-5697

We should receive all new CIP data sheets no later than January 22, 2021 in order to present the requests to the Nebraska Aeronautics Commission and subsequently to the FAA before the February deadline. Nebraska law requires that your requests for funding (data sheets) be approved by the Commission prior to submittal to the FAA.

Previously Submitted/Approved data sheets do not need to be resubmitted.

Airport Officials

Please update, sign, and date the enclosed form.

Action Items

Please review the enclosed information and return the following items to Aeronautics by January 22, 2021:

- Capital Improvement Plan – mark requested changes
- ACIP Data Sheets, **if needed** – new and/or revised
- Airport Officials List – mark changes or write in “OK” and sign

Documents can be submitted either by email (anna.lannin@nebraska.gov) or standard mail (PO Box 82088, Lincoln, NE 68501).

A complete and accurate Capital Improvement Plan is an important tool to maintain/grow your airport. If you are interested in meeting with us to discuss your plan, please contact me. I can be reached at either anna.lannin@nebraska.gov or (402) 472-7931.

Sincerely,



Anna Lannin, P.E.
Engineering Division
Division of Aeronautics
Nebraska DOT

Enclosure

REQUIREMENTS THAT MUST BE MET BEFORE YOUR AIRPORT WILL BE CONSIDERED FOR AIRPORT IMPROVEMENT PROGRAM (AIP) FUNDING

1. The proposed work must be shown on a current Airport Layout Plan (ALP) that has been approved by the FAA.
2. The project must be reasonable, justified, necessary, and eligible for federal participation.
3. Each major work item must be on a separate, signed and dated ACIP data sheet and include adequate justification and detailed cost estimate.
4. FAA must have made an environmental determination on the proposed project.
5. Land - In order to be considered for funding for land reimbursement, the land must be acquired, or a purchase agreement must be negotiated.
6. The sponsor must have available the necessary matching share (10 percent). The FAA considers the first two years of the CIP as work the sponsor is committed to accomplishing should funding become available. To assure that the limited AIP funds are used during the fiscal year obligated, the FAA has adopted the policy that grants must be based upon bids and the grant application based on bid must be submitted by May 1 of the year programmed.
7. You must agree to abide by the grant assurances required for airport funding. The electronic format of the grant assurances is available at:
http://www.faa.gov/airports/aip/grant_assurances/media/airport_sponsor_assurances.pdf
8. For airports with an AIP project approved after January 1, 1995, for pavement replacement or new pavement, the sponsor is required to implement a pavement maintenance program to ensure the pavement is properly maintained at the airport. Failure to have such a plan could impact future consideration for AIP funds. The plans are typically completed by NDA (Dave Lehnert, dave.lehnert@nebraska.gov). Questions for the FAA can be directed to:

Dan Wilson, P.E.
FAA Airports Division, ACE-621F
901 Locust, Room 364
Kansas City, MO 64106-2325

9. Before eligibility for funding revenue-producing facilities (i.e. fueling facilities and hangars) can be approved, a sponsor must submit, to the FAA, justification for the project and a statement that airside development needs are met or a financial plan that shows how airside needs over the next 3 years will be met. Note that the Central Region policy states that if the airport sponsor is planning to fund a project in the next three years using state apportionment or discretionary funds, any revenue-producing facilities are ineligible.

Capital Improvement ProgramWAYNE MUNICIPAL AIRPORT
WAYNE

Year	Description	Total Cost	Federal	State	Local
Phase I					
2024	Construct/Expand Hangars (8 stalls)	\$850,000	\$600,000	\$0	\$250,000
Phase I Subtotal		\$850,000	\$600,000	\$0	\$250,000
Phase II					
2026	Update ALP (2008)	\$250,000	\$225,000	\$0	\$25,000
2028	Crack & joint sealing with marking	\$250,000	\$225,000	\$0	\$25,000
2030	REIL runway 23	\$20,000	\$18,000	\$0	\$2,000
2030	Expand apron	\$280,800	\$252,720	\$0	\$28,080
Phase II Subtotal		\$800,800	\$720,720	\$0	\$80,080
Phase III					
2032	Install Jet A fuel	\$200,000	\$180,000	\$0	\$20,000
2034	Replace runway 5/23 lights	\$87,500	\$78,750	\$0	\$8,750
2034	Replace Runway 18/36 lights	\$210,000	\$189,000	\$0	\$21,000
2037	Land acquisition for runway expansion	\$250,000	\$225,000	\$0	\$25,000
2039	Expansion/lengthening of runway 18/36	\$2,500,000	\$2,250,000	\$0	\$250,000
Phase III Subtotal		\$3,247,500	\$2,922,750	\$0	\$324,750
Total Development Costs		\$4,898,300	\$4,243,470	\$0	\$654,830
Not Funded					
2025	Fee Simple land for MALS (300-3/4)	\$36,000			
2025	Easement Land for RPZ (300-3/4)	\$13,800			
2025	Construct MALS (300-3/4)	\$200,000			
Not Funded Subtotal					

Potential Federal Funds Available Non-Primary Entitlement

Airport: **Wayne Municipal Airport**
Wayne, Nebraska

Federal Fiscal Year	Entitlement Funds
2018	\$0
2019	\$0
2020	\$0
2021	\$150,000

Potential Funds Available in 2021: **\$150,000**

Note:

- All entitlement funds are subject to appropriation by Congress.

NDOT Division of Aeronautics

Airport Officials List

Printed 11/20/2020

WAYNE MUNICIPAL AIRPORT

WAYNE

Airport Sponsor

WAYNE AIRPORT AUTHORITY

Official Contact Person:

Travis Meyer, Chairman
PO BOX 8
WAYNE NE 68787-0008

Phone: 402-375-1733
Fax: 402-375-4712
E-mail: bporter@cityofwayne.org

Airport Officials:

Treasurer	Beth Porter	402-375-1733
Member	Scott Hammer	402-316-8984
Chair	Travis Meyer	402-833-5396
Vice Chair	Tom Schmitz	402-375-0412
Attorney	Amy Miller	402-833-1440
Member	Mark Putnam	402-637-6922
Secretary	Dave Ley	402-369-1158

Daytime Phone:

Meeting Date and Time: 2nd Monday of month, 5:30 PM

Airport's Attorney: Amy Miller 402-833-1440

Airport Manager: Becker Flying Service, Inc.

Phone: 402-254-7316

Fax: 402-254-7116

E-mail: beckeraircraft@hartel.net

Please make corrections, sign and return this form to:

NDOT Division of Aeronautics

P.O. Box 82088

Lincoln, NE 68501-2088

Completed by:

Signature

Date



November 16th, 2020
Wayne Municipal Airport
2304 E Highway 35
Wayne, NE 68787

Re: Nebraska Public Service Commission- Electrical Transmission Line Construction
Notices and Waivers

Dear Wayne Municipal Airport:

I am the Project Engineer for Orsted Onshore North America who will be the owner and operator of the Haystack Wind Project in Wayne County, Nebraska. The wind farm will consist of 69 tower locations with 98.73 miles of underground transmission lines (34.5 kV) and a 11.5-mile overhead transmission line (345kV).

Per the Nebraska Public Service Commission, we are required to send waiver forms to all Utilities with infrastructure within a quarter mile of our project. Attached is the waiver form along with detailed maps depicting our wind farm design with the utilities in the area. The attachments are as followed:

- Exhibit A – One Route Map with three individual maps
 - Map 1 – Existing Utilities
 - Map 2 – Proposed Infrastructure
 - Map 3 – Existing and Proposed Infrastructure
- Exhibit B – Specification Form for Transmission Line
- Envelope with return address

After the review of the attachments please sign and date the waiver form and return the signed copy back to our office.

If you have any additional questions, please do not hesitate to contact me.

Sincerely,

Francisco Salazar

Francisco Salazar
Project Engineer
Orsted Onshore North America, LLC
812 San Antonio Street, Suite 530
Austin, TX 78701
c - (402) 215-9613

**NEBRASKA PUBLIC SERVICE COMMISSION
ELECTRIC TRANSMISSION LINES**

WAIVER FORM

COMPANY PROPOSING CONSTRUCTION			
Legal entity name	Company case/file no.	Exhibit A drawing no.	For Commission's use
Haystack Wind Project, LLC			
Mailing address			
401 North Michigan Avenue Suite 501 Chicago, IL 60611			
Primary contact person	Contact's email address	Contact's phone no.	
Francisco Salazar	frasa@orsted.com	4022159613	

PROPOSED LINE(S) TO BE CONSTRUCTED – FILLED OUT BY COMPANY					
Description of line(s)					
345kV Overhead Transmission line leaving project substation to utility substation					
Circuit length (Miles)	Number of phases	Number of wires	Phase Voltage (KV)	Voltage to Neutral or Ground (KV)	County
11.5	6	8	345	199	Wayne

Note – If there is an inadequate number of fields provided with this form to list all circuits and/or line removals for a given project, complete and submit multiple forms with the same applicant assigned case or file number listed.

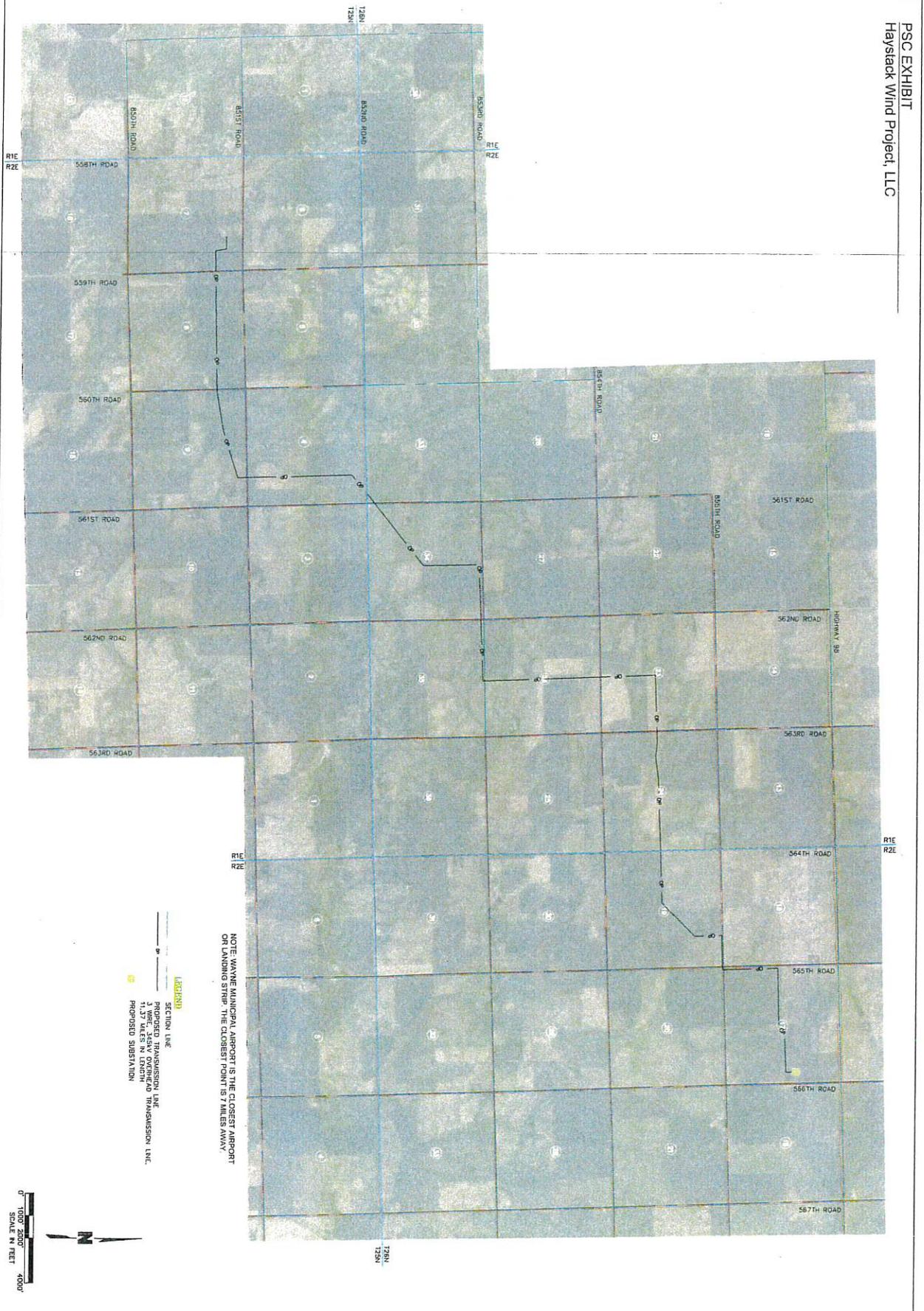
1414

DOCUMENTS PROVIDED BY COMPANY TO WAIVING PARTY FOR REVIEW – FILLED OUT BY COMPANY	
<input checked="" type="checkbox"/>	Exhibit A (Check if Yes) One-Route Map with three individual maps
<input checked="" type="checkbox"/>	Exhibit B (Check if Yes) Specification Form for Underground Lines

WAIVING PARTY APPROVAL
Consent to this construction is given with the understanding that the line(s) will be constructed in compliance with the requirements of the National Electric Safety Code, the statues of the State of Nebraska, and the rules and regulation of the Nebraska Public Service Commission.
Legal Entity Name: Wayne Municipal Airport
Mailing Address: 2304 E Highway 35 Wayne, NE 68787
Representative's Name:
Representative's Title:
Representative's Signature (Print completed PDF form and sign):
Date:

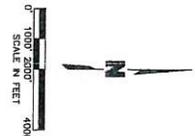
Consenting party is to return signed form to company. Company will file signed Waiving Rights to Object Form with the Commission.

PSC EXHIBIT
 Haystack Wind Project, LLC



NOTE: WAYNE MUNICIPAL AIRPORT IS THE CLOSEST AIRPORT OR LANDING STRIP. THE CLOSEST POINT IS 7 MILES AWAY.

LEGEND
 SECTION LINE
 PROPOSED TRANSMISSION LINE
 3.17 MILES IN LENGTH
 11.37 MILES IN LENGTH
 PROPOSED SUBSTATION



SHEET 2 of 3	PSC EXHIBIT PROPOSED TRANSMISSION LINE	REV. NO. DATE REVISION/DESCRIPTION	HAYSTACK WIND PROJECT LLC 81613 569TH AVENUE CARROLL, NE 68723	
	HAYSTACK WIND PROJECT LLC	REVISIONS		
WAYNE COUNTY, NEBRASKA	2020	REVISIONS		

**NEBRASKA PUBLIC SERVICE COMMISSION
EXHIBIT B - ENGINEERING SPECIFICATIONS FOR OVERHEAD ELECTRIC TRANSMISSION LINES**

002.02B

Attach a completed Exhibit B form to either the Application Form **OR** the 60 Day Notice Form and provide two additional copies.

Refer to the Application Form **OR** the 60 Day Notice Form to determine if filing Exhibit B forms with other parties is required.

COMPANY INFORMATION			002.02B1/002.02B2/002.02B3
Legal entity name	Company case/file no.	Exhibit A drawing no.	For Commission's use
Haystack Wind Project, LLC		Exhibit A	
Mailing address			
Haystack Wind Project, LLC 401 N. Michigan Avenue Suite 501 Chicago, IL 60611, USA			
Primary contact person	Contact's email address	Contact's phone no.	
Brett Rollow	BRERO@orsted.com	713-292-6370	

GENERAL DESCRIPTION							002.02B4
<i>(Note - Circuit numbers on Exhibit B must coincide with circuit numbers used on Exhibit A)</i>							
Circuit no.	County (if circuit crosses multiple counties, separately list each county specific segment)	Circuit length (Miles)	Total no. of phase wires	Voltage between phase wire (KV)	Total number of phase/ground/shield wires	Voltage to neutral or ground (KV)	
1	Wayne	11.5	6	345	8	199	

SYSTEM CONNECTION AND GROUNDING					002.02B4
Circuit no.	Delta or star (wye) connection	Neutral grounded at source only or multi-grounded (if wye connected)	Is neutral conductor continuous throughout length of line? (Check if Yes)	Is concentric neutral used? (Check if Yes)	If concentric neutral is used, list type
1	Delta	No Neutral	N/A	N/A	N/A

**NEBRASKA PUBLIC SERVICE COMMISSION
EXHIBIT B - ENGINEERING SPECIFICATIONS FOR OVERHEAD ELECTRIC TRANSMISSION LINES**

002.02B

Describe Any Double or Underbuilt Circuits

N/A

CONDUCTORS

002.02B9

(Note – Show neutral conductor with associated phase conductor)

Circuit no.	Size (AWG)	Material	Breaking strength	Arrangement	Spacing (Feet)	Span Length avg. (Feet)	Span Length max. (Feet)
1	T2-477 KCMIL	ACSR	39000 lbs.	Vertical Bundle	29	760	1132

INSULATORS

002.02B10

Circuit no.	Type	Nominal voltage (KV)	Minimum dry flashover (KV)	Material	No. of Units/strings	Manufacturer	Manufacturer's number
1	V-String	345	965	Glass	18	Sediver	N14/146
1	I-String	345	965	Glass	18	Sediver	N180/146
1	Double I-String	345	965	Glass	18	Sediver	N14/146

POLES

002.02B5

(Note-If steel towers or other fabricated structures are used, attached specifications for each type of tower and/or structure)

Circuit no.	Pole material or kind of lumber	Minimum line pole length (Feet)	Maximum pole elevation above sea level (Feet)	Pole Treatment	Strength (PSI)	Structures per mile
1	Tubular Steel	105	1997.2	Galvanized	Engineered Steel	7

NEBRASKA PUBLIC SERVICE COMMISSION
 EXHIBIT B - ENGINEERING SPECIFICATIONS FOR OVERHEAD ELECTRIC TRANSMISSION LINES

002.02B

ANCHORS AND GUYS							002.02B6
Circuit no.	Size of anchor	Type of anchor	Size of rods	Down guys	Head guys	Strength	
N/A							

CROSS ARMS								002.02B7
Circuit no.	Cross arm material	Cross arm section (Inches)	Length (Feet)	Number of Pins	Number of braces	Manufacturer	Manufacturer's number	
N/A								

PINS AND BRACKETS									002.02B8
Circuit no.	Pin Type	Pin size (Inches)	Pin manufacturer	Pin manufacturer's number	Bracket type	Bracket size (Inches)	Bracket manufacturer	Manufacturer's number	
N/A									

SPECIAL CONSIDERATIONS	002.02B11
Describe special type of construction, if used, and give location(s)	
Industry standard construction means and methods will be used.	

Remarks – Equivalent Materials May be Substituted for Those Specified Above

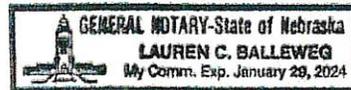
**NEBRASKA PUBLIC SERVICE COMMISSION
EXHIBIT B - ENGINEERING SPECIFICATIONS FOR OVERHEAD ELECTRIC TRANSMISSION LINES**

002.02B

LINES TO BE REMOVED				002.02B12
Length (Miles)	Number of phases	Number of wires	Phase voltage (KV)	County
N/A				

Note - If there is an inadequate number of fields provided with this form to list all circuits and/or line removals for a given project, complete and submit multiple forms with the same company assigned case or file number.

ENGINEER AFFIDAVIT		002.02B13/002.02B14
I, the undersigned, a certified professional electrical engineer, hereby certify that the foregoing transmission line design(s) is true and correct to my knowledge and conforms with the Laws of Nebraska, the Rules and Regulations of the Nebraska Public Service Commission, and the National Electrical Safety Code.		
By (Typed Name): Daniel Black		
By (Print Completed PDF Form and Sign): 		
Title: Project Manager, HDR		
Date:		
Email Address: dan.black@hdrinc.com	Phone Number: 402-399-1438	
STATE OF <u>Nebraska</u>)		
COUNTY OF <u>Douglas</u>))ss.
<u>Daniel Black, P.E.</u> being first duly sworn, says that he/she is the person who signed the foregoing statement in the name of the applicant; that he/she was duly authorized to do so; that he/she is familiar with the information contained, and knows it to be true.		
		<u>Lauren C. Balleweg</u> (Notary Public)





November 16th, 2020
Wayne Municipal Airport
2304 E Highway 35
Wayne, NE 68787

Re: Nebraska Public Service Commission- Electrical Transmission Line Construction
Notices and Waivers

Dear Wayne Municipal Airport:

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- Exhibit B – Specification Form for Underground Lines
- Envelope with return address

After the review of the attachments please sign and date the waiver form and return the signed copy back to our office.

If you have any additional questions, please do not hesitate to contact me.

Sincerely,

Francisco Salazar

Francisco Salazar
Project Engineer
Orsted Onshore North America, LLC
812 San Antonio Street, Suite 530
Austin, TX 78701
c - (402) 215-9613

**NEBRASKA PUBLIC SERVICE COMMISSION
ELECTRIC TRANSMISSION LINES**

WAIVER FORM

COMPANY PROPOSING CONSTRUCTION			
Legal entity name	Company case/file no.	Exhibit A drawing no.	For Commission's use
Haystack Wind Project, LLC			
Mailing address			
401 North Michigan Avenue Suite 501 Chicago, IL 60611			
Primary contact person	Contact's email address	Contact's phone no.	
Francisco Salazar	frasa@orsted.com	4022159613	

PROPOSED LINE(S) TO BE CONSTRUCTED – FILLED OUT BY COMPANY					
Description of line(s)					
Underground collection cables will be 34.5kV and will be ranging in size from #1/0 to 1250MCM between each turbine location 345kV Overhead Transmission line leaving project substation to utility substation					
Circuit length (Miles)	Number of phases	Number of wires	Phase Voltage (KV)	Voltage to Neutral or Ground (KV)	County
98.73	3	40	34.5	19.9	Wayne
11.5	6	8	345	199	Wayne

Note – If there is an inadequate number of fields provided with this form to list all circuits and/or line removals for a given project, complete and submit multiple forms with the same applicant assigned case or file number listed.

1414

DOCUMENTS PROVIDED BY COMPANY TO WAIVING PARTY FOR REVIEW – FILLED OUT BY COMPANY	
<input checked="" type="checkbox"/>	Exhibit A (Check if Yes) One-Route Map with three individual maps
<input checked="" type="checkbox"/>	Exhibit B (Check if Yes) Specification Form for Underground Lines

WAIVING PARTY APPROVAL
Consent to this construction is given with the understanding that the line(s) will be constructed in compliance with the requirements of the National Electric Safety Code, the statutes of the State of Nebraska, and the rules and regulation of the Nebraska Public Service Commission.
Legal Entity Name: Wayne Municipal Airport
Mailing Address: 2304 E Highway 35 Wayne, NE 68787
Representative's Name:
Representative's Title:
Representative's Signature (Print completed PDF form and sign):
Date:

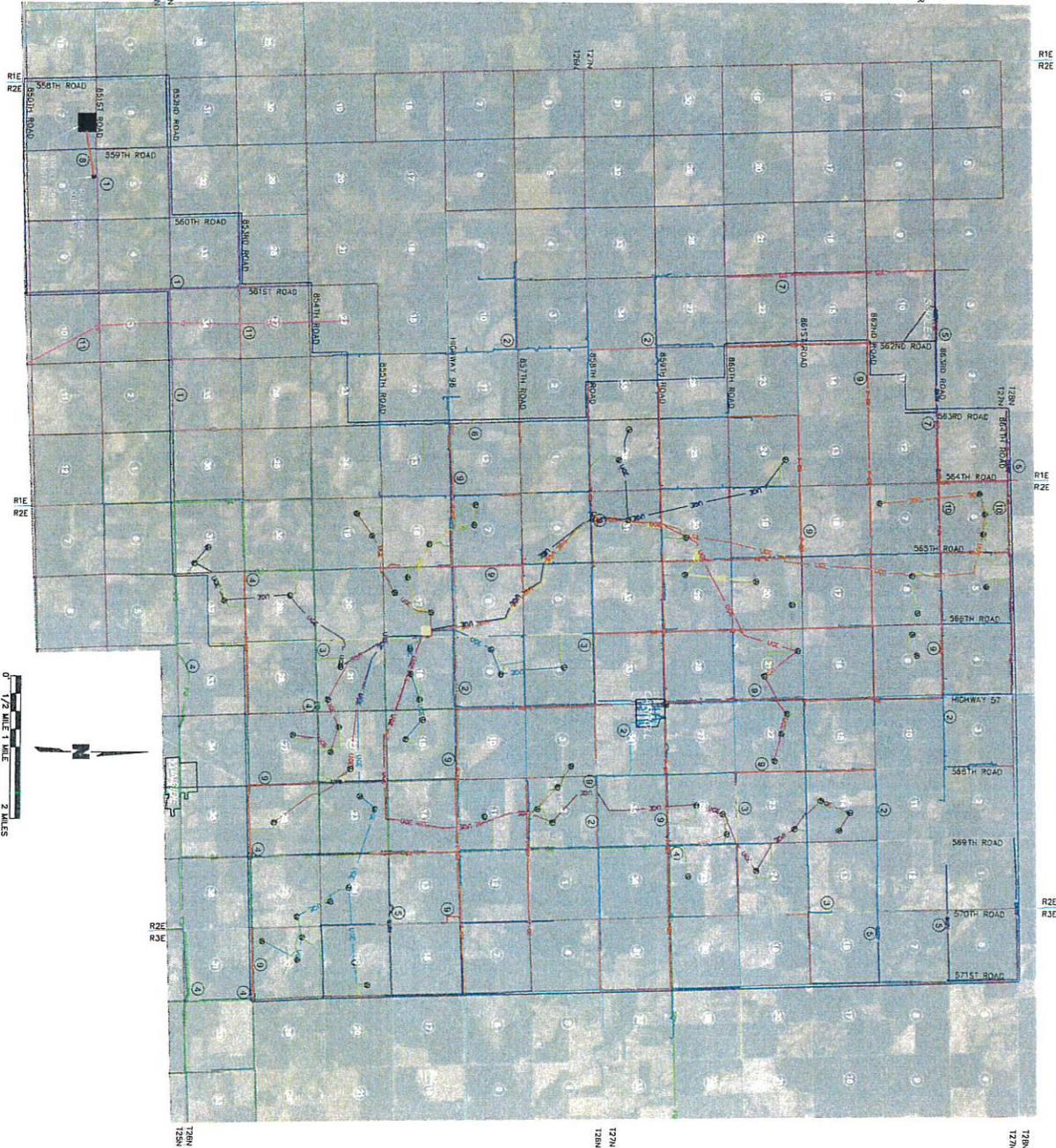
Consenting party is to return signed form to company. Company will file signed Waiving Rights to Object Form with the Commission.

PSC EXHIBIT
Haystack Wind Project, LLC

- 1 PIERCE TELEPHONE COMPANY INC
112 S 5TH STREET
PIERCE, NE 68707
- 2 AMERICAN BROADBAND
1221 F STREET
TEKAMON, NE 68881
- 3 SPARKLIGHT
100 N VICTORY ROAD
NORFOLK, NE 68701
- 4 NORTH-EAST NEBRASKA TELEPHONE
COMPANY
JACKSON, NE 68743
- 5 CENTURYLINK
1022 W 144E ROAD
DISSON, NE 68719
- 6 BLATTNER ENERGY
302 CO RD 30
AYER, MN 55910
- 7 HARTINGTON TELECOMMUNICATIONS
101 W CENTRE STREET
HARTINGTON, NE 68738
- 8 NEBRASKA PUBLIC POWER DISTRICT
1414 15TH STREET
P.O. BOX 499
COLUMBIAS, NE 68602
- 9 NORTH-EAST NEBRASKA PUBLIC POWER
DISTRICT
1001 STREET
WAYNE, NE 68787
- 10 CEDAR ROCK PUBLIC POWER DISTRICT
HARTINGTON, NE 68738
- 11 KEYSTONE XL PIPELINE (TC ENERGY)
HOUSTON, TEXAS 77002
- 12 WAYNE MUNICIPAL AIRPORT
WAYNE, NE 68787

NOTE: WAYNE MUNICIPAL AIRPORT IS THE CLOSEST AIRPORT
 ON LANBANS STR. THE CLOSEST POINT IS 7 MILES AWAY.

- LEGEND**
- SECTION LINE
 - UNDERGROUND CABLE - CENTURYLINK
 - UNDERGROUND FIBER OPTIC - HARTINGTON
 - PROPOSED FIBER OPTIC - NORTH-EAST NEBRASKA TELEPHONE COMPANY
 - UNDERGROUND FIBER OPTIC - NORTH-EAST NEBRASKA TELEPHONE
 - UNDERGROUND FIBER OPTIC - PIERCE TELEPHONE
 - UNDERGROUND FIBER OPTIC - SPARKLIGHT
 - UNDERGROUND TELEPHONE LINE - PIERCE TELEPHONE
 - UNDERGROUND TELEPHONE LINE - CENTURYLINK
 - UNDERGROUND TELEPHONE LINE - AMERICAN BROADBAND
 - UNDERGROUND GAS LINE - KEYSTONE XL PIPELINE
 - OVERHEAD ELECTRIC LINE - NEBRASKA PUBLIC POWER DISTRICT
 - PROPOSED ACCEPTED
 - PROPOSED ACCEPTED
 - PROPOSED CIRCUIT 11A
1 WIRE, 24.5KV BURIED COLLECTION LINE,
8.85 MILES IN LENGTH
 - PROPOSED CIRCUIT 11B
3 WIRE, 24.5KV BURIED COLLECTION LINE,
8.85 MILES IN LENGTH
 - PROPOSED CIRCUIT 12A
1 WIRE, 24.5KV BURIED COLLECTION LINE,
8.87 MILES IN LENGTH
 - PROPOSED CIRCUIT 12B
3 WIRE, 24.5KV BURIED COLLECTION LINE,
11.29 MILES IN LENGTH
 - PROPOSED CIRCUIT 13A
1 WIRE, 24.5KV BURIED COLLECTION LINE,
3.58 MILES IN LENGTH
 - PROPOSED CIRCUIT 13B
3 WIRE, 24.5KV BURIED COLLECTION LINE,
2.00 MILES IN LENGTH
 - PROPOSED CIRCUIT 14
2 WIRE, 24.5KV BURIED COLLECTION LINE,
2.16 MILES IN LENGTH
 - PROPOSED CIRCUIT 15
2 WIRE, 24.5KV BURIED COLLECTION LINE,
6.67 MILES IN LENGTH
 - PROPOSED CIRCUIT 16
2 WIRE, 24.5KV BURIED COLLECTION LINE,
8.15 MILES IN LENGTH
 - PROPOSED CIRCUIT 17A
2 WIRE, 24.5KV BURIED COLLECTION LINE,
2.00 MILES IN LENGTH
 - PROPOSED CIRCUIT 17B
3 WIRE, 24.5KV BURIED COLLECTION LINE,
6.67 MILES IN LENGTH
 - PROPOSED CIRCUIT 18
2 WIRE, 24.5KV BURIED COLLECTION LINE,
2.16 MILES IN LENGTH
 - PROPOSED CIRCUIT 19
2 WIRE, 24.5KV BURIED COLLECTION LINE,
11.29 MILES IN LENGTH
 - PROPOSED CIRCUIT 20
2 WIRE, 24.5KV BURIED COLLECTION LINE,
5.89 MILES IN LENGTH
 - PROPOSED SUBSTATION



NEBRASKA PUBLIC SERVICE COMMISSION
EXHIBIT B - ENGINEERING SPECIFICATIONS FOR UNDERGROUND ELECTRIC TRANSMISSION LINES
002.02C

Attach a completed Exhibit B form to either the Application Form **OR** the 60 Day Notice Form and provide two additional copies.

Refer to the Application Form **OR** the 60 Day Notice Form to determine if filing Exhibit B forms with other parties is required.

COMPANY INFORMATION			002.02C1/002.02C2/002.02C3
Legal entity name	Company case/file no.	Exhibit A drawing no.	For Commission's use
Haystack Wind Project, LLC		Exhibit A	
Mailing address			
Haystack Wind Project, LLC 401. N Michigan Avenue, Suite 501 Chicago, IL 60611, USA			
Primary contact person	Contact's email address	Contact's phone no.	
Francisco Salazar	frasa@orsted.com	512-348-3274	

GENERAL DESCRIPTION							002.02C4
(Note – Circuit numbers on Exhibit B must coincide with circuit numbers used on Exhibit A)							
Circuit no.	County (if circuit crosses multiple counties, separately list each county specific segment)	Circuit length (Miles)	Total no. of phase wires	Voltage between phase wire (KV)	Total number of phase/ground/shield wires	Voltage to neutral or ground (KV)	
11A	Wayne	6.19	3	34.5	4	19.9	
11B	Wayne	8.85	3	34.5	4	19.9	
12A	Wayne	9.67	3	34.5	4	19.9	
12B	Wayne	11.39	3	34.5	4	19.9	

SYSTEM CONNECTION AND GROUNDING						002.0CB4
Circuit no.	Delta or star (wye) connection	Neutral grounded at source only or multi-grounded (if wye connected)	Is neutral conductor continuous throughout length of line? (Check if Yes)	Is concentric neutral used? (Check if Yes)	If concentric neutral is used, list type	
11A	Wye	Multi-Grounded	✓	✓	Round	
11B	Wye	Multi-Grounded	✓	✓	Round	
12A and 12B	Wye	Multi-Grounded	✓	✓	Round	

NEBRASKA PUBLIC SERVICE COMMISSION

EXHIBIT B - ENGINEERING SPECIFICATIONS FOR UNDERGROUND ELECTRIC TRANSMISSION LINES 002.02C

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CONDUCTORS						002.02C5
<i>(Note – Show neutral conductor with associated phase conductor)</i>						
Circuit no.	Size (AWG)	Material	Solid or stranded	Number of strands	Copper Equivalent	
11A	A 1000MCM 750MCM 500MCM 4.0 1.0	Phase: Aluminum(CN: Copper)	Stranded	19 8 1(19) 8 1(19) 37(19) 19(12) 19		
11B	A 1000MCM 750MCM 500MCM 4.0 1.0	Phase: Aluminum(CN: Copper)	Stranded	(13) 8 1(13) 8 1(13) 37(13) 19(8) 19		
12A	A 1000MCM 750MCM 500MCM 4.0 1.0	Phase: Aluminum(CN: Copper)	Stranded	(13) 8 1(13) 8 1(13) 37(13) 19(8) 19		
12B	A 1000MCM 750MCM 500MCM 4.0 1.0	Phase: Aluminum(CN: Copper)	Stranded	(13) 8 1(13) 8 1(13) 37(13) 19(8) 19		

CONDUCTOR INSULATION					002.02C6
Circuit no.	Thickness	Type	Material	KV rating	
11A	345 Mils	Tree-Retardant	Cross-Linked Polyethylene	35	
11B	345 Mils	Tree-Retardant	Cross-Linked Polyethylene	35	
12A	345 Mils	Tree-Retardant	Cross-Linked Polyethylene	35	
12B	345 Mils	Tree-Retardant	Cross-Linked Polyethylene	35	

CABLE TERMINATIONS						002.02C7
Circuit no.	Size	Type	KV rating	Manufacturer	Manufacturer number	
11A	CM 1000MCM 750MCM 500MCM	T-Body	35			
11B	CM 1000MCM 750MCM 500MCM	T-Body	35			
12A	CM 1000MCM 750MCM 500MCM	T-Body	35			
12B	CM 1000MCM 750MCM 500MCM	T-Body	35			

NEBRASKA PUBLIC SERVICE COMMISSION

EXHIBIT B - ENGINEERING SPECIFICATIONS FOR UNDERGROUND ELECTRIC TRANSMISSION LINES 002.02C

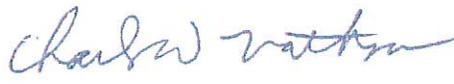
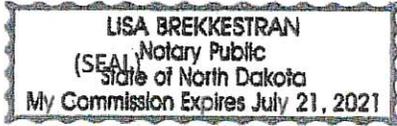
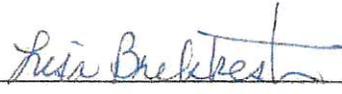
MISCELLANEOUS				002.02C8
Circuit no.	Cable depth (Inches)	Riser pole cable protection type	Riser pole cable protection size	
11A	48			
11B	48			
12A	48			
12B	48			
Describe fault protection used				
Describe special type of construction, if used, and give location(s):				

Remarks – Equivalent Materials May be Substituted for Those Specified Above

LINES TO BE REMOVED					002.02C9
Length (Miles)	Number of phases	Number of wires	Phase voltage (KV)	County	

NEBRASKA PUBLIC SERVICE COMMISSION
EXHIBIT B - ENGINEERING SPECIFICATIONS FOR UNDERGROUND ELECTRIC TRANSMISSION LINES 002.02C

Note – If there is an inadequate number of fields provided with this form to list all circuits and/or line removals for a given project, complete and submit multiple forms with the same company assigned case or file number.

ENGINEER AFFIDAVIT		002.02C10/002.02C11
I, the undersigned, a certified professional electrical engineer, hereby certify that the foregoing transmission line design(s) is true and correct to my knowledge and conforms with the Laws of Nebraska, the Rules and Regulations of the Nebraska Public Service Commission, and the National Electrical Safety Code.		
By (Typed Name): Charles Mathson		
By (Print Completed PDF Form and Sign): 		
Title: Electrical Engineer		
Date: 10/30/2020		
Email Address: chuck.mathson@ulteig.com	Phone Number: 701.280.8564	
STATE OF <u>North Dakota</u>)		
)ss.		
COUNTY OF <u>Cass</u>)		
<u>Charles Mathson</u> , being first duly sworn, says that he/she is the person who signed the foregoing statement in the name of the applicant; that he/she was duly authorized to do so; that he/she is familiar with the information contained, and knows it to be true.		
	 _____ (Notary Public)	

NEBRASKA PUBLIC SERVICE COMMISSION
EXHIBIT B - ENGINEERING SPECIFICATIONS FOR UNDERGROUND ELECTRIC TRANSMISSION LINES
002.02C

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Refer to the Application Form **OR** the 60 Day Notice Form to determine if filing Exhibit B forms with other parties is required.

COMPANY INFORMATION			002.02C1/002.02C2/002.02C3
Legal entity name	Company case/file no.	Exhibit A drawing no.	For Commission's use
Haystack Wind Project, LLC		Exhibit A	
Mailing address			
Haystack Wind Project, LLC 401. N Michigan Avenue, Suite 501 Chicago, IL 60611, USA			
Primary contact person	Contact's email address	Contact's phone no.	
Francisco Salazar	frasa@orsted.com	512-348-3274	

GENERAL DESCRIPTION							002.02C4
(Note – Circuit numbers on Exhibit B must coincide with circuit numbers used on Exhibit A)							
Circuit no.	County (if circuit crosses multiple counties, separately list each county specific segment)	Circuit length (Miles)	Total no. of phase wires	Voltage between phase wire (KV)	Total number of phase/ground/shield wires	Voltage to neutral or ground (KV)	
13A	Wayne	7.56	3	34.5	4	19.9	
13B	Wayne	2.6	3	34.5	4	19.9	
14	Wayne	2.16	3	34.5	4	19.9	

SYSTEM CONNECTION AND GROUNDING						002.0CB4
Circuit no.	Delta or star (wye) connection	Neutral grounded at source only or multi-grounded (if wye connected)	Is neutral conductor continuous throughout length of line? (Check if Yes)	Is concentric neutral used? (Check if Yes)	If concentric neutral is used, list type	
13A	Wye	Multi-Grounded	✓	✓	Round	
13B	Wye	Multi-Grounded	✓	✓	Round	
14	Wye	Multi-Grounded	✓	✓	Round	

NEBRASKA PUBLIC SERVICE COMMISSION

EXHIBIT B - ENGINEERING SPECIFICATIONS FOR UNDERGROUND ELECTRIC TRANSMISSION LINES 002.02C

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CONDUCTORS **002.02C5**

(Note – Show neutral conductor with associated phase conductor)

Circuit no.	Size (AWG)	Material	Solid or stranded	Number of strands	Copper Equivalent
13A	4/1000MCM 750MCM 500MCM 4/0 1/0	Phase: Aluminum(CN: Copper)	Stranded	19 8(19) 8(19) 37(19) 19(12) 19	
13B	4/1000MCM 750MCM 500MCM 4/0 1/0	Phase: Aluminum(CN: Copper)	Stranded	(13) 8(13) 8(13) 37(13) 19(8) 19	
14	4/1000MCM 750MCM 500MCM 4/0 1/0	Phase: Aluminum(CN: Copper)	Stranded	(13) 8(13) 8(13) 37(13) 19(8) 19	

CONDUCTOR INSULATION **002.02C6**

Circuit no.	Thickness	Type	Material	KV rating
13A	345 Mils	Tree-Retardant	Cross-Linked Polyethylene	35
13B	345 Mils	Tree-Retardant	Cross-Linked Polyethylene	35
14	345 Mils	Tree-Retardant	Cross-Linked Polyethylene	35

CABLE TERMINATIONS **002.02C7**

Circuit no.	Size	Type	KV rating	Manufacturer	Manufacturer number
13A	2M 1000MCM 750MCM 500MCM 4/0	T-Body	35		
13B	2M 1000MCM 750MCM 500MCM 4/0	T-Body	35		
14	2M 1000MCM 750MCM 500MCM 4/0	T-Body	35		

NEBRASKA PUBLIC SERVICE COMMISSION

EXHIBIT B - ENGINEERING SPECIFICATIONS FOR UNDERGROUND ELECTRIC TRANSMISSION LINES 002.02C

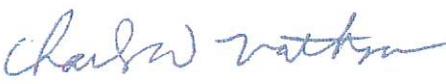
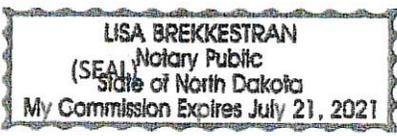
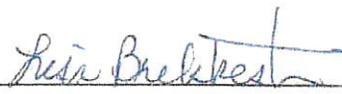
MISCELLANEOUS				002.02C8
Circuit no.	Cable depth (Inches)	Riser pole cable protection type	Riser pole cable protection size	
13A	48			
13B	48			
14	48			
Describe fault protection used				
Describe special type of construction, if used, and give location(s):				

Remarks – Equivalent Materials May be Substituted for Those Specified Above

LINES TO BE REMOVED					002.02C9
Length (Miles)	Number of phases	Number of wires	Phase voltage (KV)	County	

NEBRASKA PUBLIC SERVICE COMMISSION
EXHIBIT B - ENGINEERING SPECIFICATIONS FOR UNDERGROUND ELECTRIC TRANSMISSION LINES 002.02C

Note – If there is an inadequate number of fields provided with this form to list all circuits and/or line removals for a given project, complete and submit multiple forms with the same company assigned case or file number.

ENGINEER AFFIDAVIT		002.02C10/002.02C11
I, the undersigned, a certified professional electrical engineer, hereby certify that the foregoing transmission line design(s) is true and correct to my knowledge and conforms with the Laws of Nebraska, the Rules and Regulations of the Nebraska Public Service Commission, and the National Electrical Safety Code.		
By (Typed Name): Charles Mathson		
By (Print Completed PDF Form and Sign): 		
Title: Electrical Engineer		
Date: 10/30/2020		
Email Address: chuck.mathson@ulteig.com	Phone Number: 701.280.8564	
STATE OF <u>North Dakota</u>) <div style="text-align: right; margin-right: 50px;">)ss.</div> COUNTY OF <u>Cass</u>)		
<u>Charles Mathson</u> , being first duly sworn, says that he/she is the person who signed the foregoing statement in the name of the applicant; that he/she was duly authorized to do so; that he/she is familiar with the information contained, and knows it to be true.		
	 _____ (Notary Public)	

NEBRASKA PUBLIC SERVICE COMMISSION
EXHIBIT B - ENGINEERING SPECIFICATIONS FOR UNDERGROUND ELECTRIC TRANSMISSION LINES
002.02C

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COMPANY INFORMATION			002.02C1/002.02C2/002.02C3
Legal entity name	Company case/file no.	Exhibit A drawing no.	For Commission's use
Haystack Wind Project, LLC		Exhibit A	
Mailing address			
Haystack Wind Project, LLC 401. N Michigan Avenue, Suite 501 Chicago, IL 60611, USA			
Primary contact person	Contact's email address	Contact's phone no.	
Francisco Salazar	frasa@orsted.com	512-348-3274	

GENERAL DESCRIPTION							002.02C4
(Note – Circuit numbers on Exhibit B must coincide with circuit numbers used on Exhibit A)							
Circuit no.	County (if circuit crosses multiple counties, separately list each county specific segment)	Circuit length (Miles)	Total no. of phase wires	Voltage between phase wire (KV)	Total number of phase/ground/shield wires	Voltage to neutral or ground (KV)	
21	Wayne	4.90	3	34.5	4	19.9	
22A	Wayne	6.67	3	34.5	4	19.9	
22B	Wayne	8.15	3	34.5	4	19.9	

SYSTEM CONNECTION AND GROUNDING						002.0CB4
Circuit no.	Delta or star (wye) connection	Neutral grounded at source only or multi-grounded (if wye connected)	Is neutral conductor continuous throughout length of line? (Check if Yes)	Is concentric neutral used? (Check if Yes)	If concentric neutral is used, list type	
21	Wye	Multi-Grounded	✓	✓	Round	
22A	Wye	Multi-Grounded	✓	✓	Round	
22B	Wye	Multi-Grounded	✓	✓	Round	

NEBRASKA PUBLIC SERVICE COMMISSION

EXHIBIT B - ENGINEERING SPECIFICATIONS FOR UNDERGROUND ELECTRIC TRANSMISSION LINES 002.02C

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CONDUCTORS						002.02C5
<i>(Note – Show neutral conductor with associated phase conductor)</i>						
Circuit no.	Size (AWG)	Material	Solid or stranded	Number of strands	Copper Equivalent	
21	4 1000MCM 750MCM 500MCM 4 0 1 0	Phase: Aluminum(CN: Copper)	Stranded	19 8 1(19) 8 1(19) 37(19) 19(12) 19		
22A	4 1000MCM 750MCM 500MCM 4 0 1 0	Phase: Aluminum(CN: Copper)	Stranded	(13) 8 1(13) 8 1(13) 27(13) 19(8) 19		
22B	4 1000MCM 750MCM 500MCM 4 0 1 0	Phase: Aluminum(CN: Copper)	Stranded	(13) 8 1(13) 8 1(13) 27(13) 19(8) 19		

CONDUCTOR INSULATION					002.02C6
Circuit no.	Thickness	Type	Material	KV rating	
21	345 Mils	Tree-Retardant	Cross-Linked Polyethylene	35	
22A	345 Mils	Tree-Retardant	Cross-Linked Polyethylene	35	
22B	345 Mils	Tree-Retardant	Cross-Linked Polyethylene	35	

CABLE TERMINATIONS						002.02C7
Circuit no.	Size	Type	KV rating	Manufacturer	Manufacturer number	
21	2M 1000MCM 750MCM 500MCM 4	T-Body	35			
22A	2M 1000MCM 750MCM 500MCM 4	T-Body	35			
22B	2M 1000MCM 750MCM 500MCM 4	T-Body	35			

NEBRASKA PUBLIC SERVICE COMMISSION

EXHIBIT B - ENGINEERING SPECIFICATIONS FOR UNDERGROUND ELECTRIC TRANSMISSION LINES 002.02C

MISCELLANEOUS				002.02C8
Circuit no.	Cable depth (Inches)	Riser pole cable protection type	Riser pole cable protection size	
21	48			
22A	48			
22B	48			
Describe fault protection used				
Describe special type of construction, if used, and give location(s):				

Remarks – Equivalent Materials May be Substituted for Those Specified Above

LINES TO BE REMOVED					002.02C9
Length (Miles)	Number of phases	Number of wires	Phase voltage (KV)	County	

NEBRASKA PUBLIC SERVICE COMMISSION
EXHIBIT B - ENGINEERING SPECIFICATIONS FOR UNDERGROUND ELECTRIC TRANSMISSION LINES
002.02C

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COMPANY INFORMATION			002.02C1/002.02C2/002.02C3
Legal entity name	Company case/file no.	Exhibit A drawing no.	For Commission's use
Haystack Wind Project, LLC		Exhibit A	
Mailing address			
Haystack Wind Project, LLC 401. N Michigan Avenue, Suite 501 Chicago, IL 60611, USA			
Primary contact person	Contact's email address	Contact's phone no.	
Francisco Salazar	frasa@orsted.com	512-348-3274	

GENERAL DESCRIPTION							002.02C4
(Note – Circuit numbers on Exhibit B must coincide with circuit numbers used on Exhibit A)							
Circuit no.	County (if circuit crosses multiple counties, separately list each county specific segment)	Circuit length (Miles)	Total no. of phase wires	Voltage between phase wire (KV)	Total number of phase/ground/shield wires	Voltage to neutral or ground (KV)	
23A	Wayne	4.09	3	34.5	4	19.9	
23B	Wayne	9.35	3	34.5	4	19.9	
24A	Wayne	11.26	3	34.5	4	19.9	
24B	Wayne	5.89	3	34.5	4	19.9	

SYSTEM CONNECTION AND GROUNDING						002.0CB4
Circuit no.	Delta or star (wye) connection	Neutral grounded at source only or multi-grounded (if wye connected)	Is neutral conductor continuous throughout length of line? (Check if Yes)	Is concentric neutral used? (Check if Yes)	If concentric neutral is used, list type	
23A	Wye	Multi-Grounded	✓	✓	Round	
23B	Wye	Multi-Grounded	✓	✓	Round	
24A and 24B	Wye	Multi-Grounded	✓	✓	Round	

NEBRASKA PUBLIC SERVICE COMMISSION

EXHIBIT B - ENGINEERING SPECIFICATIONS FOR UNDERGROUND ELECTRIC TRANSMISSION LINES 002.02C

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CONDUCTORS						002.02C5
<i>(Note – Show neutral conductor with associated phase conductor)</i>						
Circuit no.	Size (AWG)	Material	Solid or stranded	Number of strands	Copper Equivalent	
23A	4 1000MCM 750MCM 500MCM 4 0 1 0	Phase: Aluminum(CN: Copper)	Stranded	19 8 19 8 19 3 19 19 12 19		
23B	4 1000MCM 750MCM 500MCM 4 0 1 0	Phase: Aluminum(CN: Copper)	Stranded	(13) 8 13 8 13 3 13 19 8 19		
24A	4 1000MCM 750MCM 500MCM 4 0 1 0	Phase: Aluminum(CN: Copper)	Stranded	(13) 8 13 8 13 3 13 19 8 19		
24B	4 1000MCM 750MCM 500MCM 4 0 1 0	Phase: Aluminum(CN: Copper)	Stranded	(13) 8 13 8 13 3 13 19 8 19		

CONDUCTOR INSULATION					002.02C6
Circuit no.	Thickness	Type	Material	KV rating	
23A	345 Mils	Tree-Retardant	Cross-Linked Polyethylene	35	
23B	345 Mils	Tree-Retardant	Cross-Linked Polyethylene	35	
24A	345 Mils	Tree-Retardant	Cross-Linked Polyethylene	35	
24B	345 Mils	Tree-Retardant	Cross-Linked Polyethylene	35	

CABLE TERMINATIONS						002.02C7
Circuit no.	Size	Type	KV rating	Manufacturer	Manufacturer number	
23A	2M 1000MCM 750MCM 500MCM 4	T-Body	35			
23B	2M 1000MCM 750MCM 500MCM 4	T-Body	35			
24A	2M 1000MCM 750MCM 500MCM 4	T-Body	35			
24B	2M 1000MCM 750MCM 500MCM 4	T-Body	35			

NEBRASKA PUBLIC SERVICE COMMISSION

EXHIBIT B - ENGINEERING SPECIFICATIONS FOR UNDERGROUND ELECTRIC TRANSMISSION LINES 002.02C

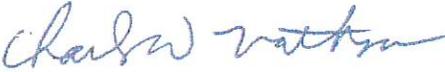
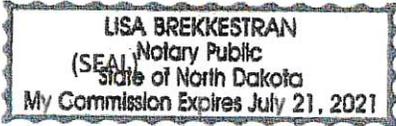
MISCELLANEOUS				002.02C8
Circuit no.	Cable depth (Inches)	Riser pole cable protection type	Riser pole cable protection size	
23A	48			
23B	48			
24A	48			
24B	48			
Describe fault protection used				
Describe special type of construction, if used, and give location(s):				

Remarks – Equivalent Materials May be Substituted for Those Specified Above

LINES TO BE REMOVED					002.02C9
Length (Miles)	Number of phases	Number of wires	Phase voltage (KV)	County	

NEBRASKA PUBLIC SERVICE COMMISSION
EXHIBIT B - ENGINEERING SPECIFICATIONS FOR UNDERGROUND ELECTRIC TRANSMISSION LINES 002.02C

Note – If there is an inadequate number of fields provided with this form to list all circuits and/or line removals for a given project, complete and submit multiple forms with the same company assigned case or file number.

ENGINEER AFFIDAVIT		002.02C10/002.02C11
I, the undersigned, a certified professional electrical engineer, hereby certify that the foregoing transmission line design(s) is true and correct to my knowledge and conforms with the Laws of Nebraska, the Rules and Regulations of the Nebraska Public Service Commission, and the National Electrical Safety Code.		
By (Typed Name): Charles Mathson		
By (Print Completed PDF Form and Sign): 		
Title: Electrical Engineer		
Date: 10/30/2020		
Email Address: chuck.mathson@ulteig.com	Phone Number: 701.280.8564	
STATE OF <u>North Dakota</u>) <div style="text-align: right; margin-right: 100px;">)ss.</div> COUNTY OF <u>Cass</u>)		
<u>Charles Mathson</u> , being first duly sworn, says that he/she is the person who signed the foregoing statement in the name of the applicant; that he/she was duly authorized to do so; that he/she is familiar with the information contained, and knows it to be true.		
	 _____ (Notary Public)	



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

Aeronautical Study No.
 2019-WTE-6268-OE

Issued Date: 11/18/2019

Leslie Strong
 Haystack Wind Project, LLC
 16105 W 113th Street
 Suite 105
 Lenexa, KS 66219

**** 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 T-1
 Location: Carroll, NE
 Latitude: 42-20-44.13N NAD 83
 Longitude: 97-14-55.19W
 Heights: 1708 feet site elevation (SE)
 660 feet above ground level (AGL)
 2368 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 L Change 2, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

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:

- At least 60 days prior to start of construction (7460-2, Part 1)
- 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 05/18/2021 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 December 18, 2019. In the event a petition for review is filed, it must contain a full statement of the basis upon which it is made and be submitted to the Manager of the Airspace Policy Group. Petitions can be submitted via mail to Federal Aviation Administration, 800 Independence Ave, SW, Room 423, Washington, DC 20591, via email at OEPetitions@faa.gov, or via facsimile (202) 267-9328.

This determination becomes final on December 28, 2019 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 Airspace Policy 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 2019-WTE-6268-OE.

Signature Control No: 410347178-423009139

(DNH -WT)

Mike Helvey

Manager, Obstruction Evaluation Group

Attachment(s)

Additional Information

Case Description

Map(s)

Additional information for ASN 2019-WTE-6268-OE

Abbreviations:

AGL, Above Ground Level
AMSL, Above Mean Sea Level
ASN, Aeronautical Study Number
ASR, Airport Surveillance Radar
ATCT, Air Traffic Control Tower
CFR, Code of Federal Regulations
MVA, Minimum Vectoring Altitude
NM, Nautical Mile
TRACON, Terminal Radar Approach Control

This notice is for 116 proposed wind turbines as a part of a wind farm project that would be located approximately 6.20 NM - 14.35 NM west-southwest clockwise to 6.50 NM - 13.34 NM west-northwest of the Airport Reference Point for Wayne Municipal / Stan Morris Field (LCG) Wayne, NE. The ASNs with coordinates, AGL heights, and AMSL heights for each structure are identified on page one of the determination letters. The proposed wind farm would exceed the obstruction standards of 14 CFR Part 77 as follows:

- Section 77.17(a)(1) by 161 feet; a height that exceeds 499 feet AGL.
- Section 77.17(a)(3); a height that increases a minimum instrument flight altitude within a terminal area. The proposed wind farm would increase the Sioux City ATCT/TRACON (SUX), MVAs; SUX_MVA_FUS3_2018_v1 and SUX_MVA_FUS5_2018 for Sector G from 3000 feet AMSL to 3400 feet AMSL.

The proposed wind turbines would have a physical and/or electromagnetic radiation effect upon the Sioux City, IA (SUX) ASR-11 radar facility. The proposals could affect the quality and/or availability of the SUX primary radar signals; no effect on secondary (beacon) radar. The structures may cause unwanted primary-only returns (clutter), primary-only target drops and tracked primary targets that diverge from the aircraft path and follow wind turbines, when the aircraft is over or near the turbines.

In order to facilitate the public comment process, the studies were circularized under ASN 2019-WTE-6307-OE on 10/09/2019, to all known aviation interests and to non-aeronautical interests that may be affected by the proposal. No letters of objection were received as a result of the circularization concluding on 11/15/2019.

The aeronautical study disclosed that the proposed structures would have the adverse effect as described above on instrument procedures. MVAs are solely used by ATC and not published for public use and are not circulated for public comment. The study disclosed that increasing the MVA in the area of the turbines would not impact a significant number of operations. The proposed structures would have no other effect on any existing or proposed arrival, departure, or en route IFR operations or procedures.

The aeronautical study indicated that the turbines will be within the radar line of sight for the Sioux City, IA (SUX) ASR-11 radar facility. Radar effects only require review by the responsible ATC facility and therefore are not circulated for public comment. Further study determined this would not cause an unacceptable adverse impact on ATC operations at this time.

Study for possible VFR effect disclosed that the proposals would have no effect on existing or proposed VFR arrival or departure operations. The proposals are beyond traffic pattern airspace. Therefore, the proposal

would not have an adverse effect on VFR traffic pattern operations at LCG or any other known public use or military airports. At 660 feet AGL, the structures would extend upwards into altitudes commonly used for en route VFR flight, however no information was received to indicate they would be located within any regularly used VFR routes. Therefore, they would not have a substantial adverse effect on en route VFR flight operations.

The proposed structures would be appropriately obstruction marked/lighted to make them more conspicuous to airmen should circumnavigation be necessary.

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 significant 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.

Therefore, 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.

Additional conditions:

As a condition of this determination it is required that Notice of Actual Construction or Alteration (7460-2 Part 1) be E-filed at least 60 full days prior to the start of construction so that appropriate action can be taken to amend the effected procedure(s) and/or altitude(s).

The Department of Defense (DOD) identified the structures as being located within the confines or near a military training route or military training area. The DOD request that all turbines associated with this project be installed with night vision goggle (NVG) compatible lighting.

Case Description for ASN 2019-WTE-6268-OE

Wind project located near Carroll, NE. Replacing previously determined cases 2017-WTE-637:802-OE.

