

## **-Info-Public Service Commission**

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**From:** Aron Anderson <aanderson@solasenergyconsulting.com>  
**Sent:** Tuesday, November 22, 2016 10:19 AM  
**To:** Lein, Jerry R.; -Info-Public Service Commission  
**Cc:** Jed Dailey; Cindy Whitney; Ryan Hartleben; Jon Johnson  
**Subject:** Sunflower Wind Project - Case Number: PU-14-105  
**Attachments:** SUNF\_CusterHealth\_SepticPermitFinal\_2016.11.10.pdf; Septic Permit - Completed.pdf; 2014-WTE-5850\_WT45.pdf; 2016-WTE-7768 PMT 44-45.pdf; 2016-WTE-PMT 01-02.pdf; 2016-WTE-7872\_WT32.pdf; 2016-WTE-7653\_WT27.pdf; 2016-WTE-7767\_WT25.pdf; 2016-WTE-7870\_WT30.pdf; 2016-WTE-8129\_WT38.pdf; 2016-WTE-8440\_WTA13.pdf; 2016-WTE-7651\_WT26.pdf; 2016-WTE-7769\_WT24.pdf; 2016-WTE-7770\_WT33.pdf; 2016-WTE-7869\_WT29.pdf; 2016-WTE-7871\_WT31.pdf; 2016-WTE-8127\_WT36.pdf; 2016-WTE-8128\_WT37.pdf; 2016-WTE-8130\_WTA07.pdf; 2016-WTE-8193\_WTA08.pdf; 2016-WTE-8441\_WTA12.pdf; 2016-WTE-8442\_WT52.pdf; 2016-WTE-8443\_WT51.pdf; 2016-WTE-8444\_WT53.pdf; 2014-WTE-5845\_WT40.pdf

Jerry,

Please see attached for final septic permit/inspection. Hard copies are in the mail. Also, see attached latest batch of -2's from the FAA. Once all -2's are provided by the FAA we will mail a complete hardcopy.

*Thank You,*

*Aron Anderson*  
*Senior Project Manager*  
*Solas Energy Consulting US Inc.*  
Mobile: (612) 599-4251  
Email: [aanderson@solasenergyconsulting.com](mailto:aanderson@solasenergyconsulting.com)



Serving: Grant • Mercer • Morton • Oliver • Sioux Counties  
www.custerhealth.com

403 Burlington St SE  
Mandan, North Dakota 58554  
701-667-3370 • Fax: 701-667-3371  
1-888-667-3370

**ONSITE SEWAGE TREATMENT SYSTEM  
PERMIT FOR CONSTRUCTION/USE**

\*Custer Health requires an inspection of the open system before it is covered. Please call 24-48 hours in advance of system completion to set up inspection.\*

**DATE OF ISSUANCE:** 10/27/2015

**PERMIT NUMBER:** 2015150

**APPLICANT INFORMATION**

Sunflower Wind Farm  
7687 40th St  
Hebron, ND 58638

**PROPERTY INFORMATION**

7687 40th St  
Hebron, ND 58638

**COUNTY:** Morton **TOWNSHIP:** 139 **RANGE:** 90 **SECTION:** 20 **LOT: #** **BLOCK: #**

**NUMBER OF BEDROOMS:** NA **WORK TYPE:** NEW

**LICENSED INSTALLER:** Glaser Welding and Excavation

**SYSTEM DESIGN REQUIREMENTS:**

1250 working capacity septic tank and 1960 square feet of drain field approved. For worksite shop and office area. (rewrite of permit issued in October 2015) Due to ND regulations an oil interceptor with separate holding must be installed to handle truck shop/wash area. The holding can be a tank within the oil interceptor, an outside holding tank OR an outside berm.

Permission is hereby granted to the above applicant to install, alter, or replace the onsite sewage treatment system on the above property. The system must be installed in compliance with ND State Plumbing Code Chapter 62-03.1-03 and the regulations of Custer Health. This permit does not carry any warranty or guarantee, stated or implied, that the system will function but certifies the system meets prescriptive standards contained in the aforementioned code and regulations for construction parameters.

**ISSUED BY:** Lana Schmidt **DATE:** 7/15/2016

**SIGNATURE:** Lana Schmidt

**INSPECTION NOTES**

**INSPECTION DATE:** 11/10/16 **APPROVED FOR USE:**  YES  NO

**INSPECTION NOTES:** 1250 gal working capacity tank installed to 2 distribution boxes - 5 runs of bio-dome: 4@120' & 1@150' as built for details of layout - inspection ports on (S) end of 3

**INSPECTOR SIGNATURE:** Lana Schmidt trenches

Modification of system fully complies with Custer Health Code.



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

Aeronautical Study No.  
2014-WTE-5850-OE  
Prior Study No.  
2012-WTE-3786-OE

Issued Date: 10/18/2016

Casey Willis  
Sunflower Wind Project, LLC  
3760 State Street  
Suite 200  
Santa Barbara, CA 93105

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\* (CORRECTION)**

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 45
Location:	Hebron, ND
Latitude:	46-49-22.58N NAD 83
Longitude:	102-01-27.37W
Heights:	2424 feet site elevation (SE) 426 feet above ground level (AGL) 2850 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

As a condition to this Determination, the structure is marked/lighted in accordance with FAA Advisory circular 70/7460-1 L Change 1, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration 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.

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.

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

If we can be of further assistance, please contact our office at (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2014-WTE-5850-OE.

**Signature Control No: 232652598-307642437**  
Steve Phillips  
Specialist

( DNE -WT )

Attachment(s)  
Map(s)

Sectional Map for ASN 2014-WTE-5850-OE





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

Aeronautical Study No.  
2016-WTE-7766-OE  
Prior Study No.  
2015-WTE-3287-OE

Issued Date: 11/04/2016

Cindy Whitney  
Solas Energy Consulting  
430 North College Avenue, Suite 440  
Fort Collins, CO 80524

**\*\* 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:	Met Tower Met Tower PMT 01-02
Location:	Hebron, ND
Latitude:	46-49-20.64N NAD 83
Longitude:	102-07-55.21W
Heights:	2439 feet site elevation (SE) 263 feet above ground level (AGL) 2702 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, 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 1, Obstruction Marking and Lighting, a med-dual system - Chapters 4,8(M-Dual),&12.

**See attachment for additional condition(s) or information.**

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration 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.

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

If we can be of further assistance, please contact our office at (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-7766-OE.

**Signature Control No: 306089230-309387289**

Steve Phillips  
Specialist

( DNE -WT )

Attachment(s)  
Additional Information  
Map(s)

## **Additional information for ASN 2016-WTE-7766-OE**

As a condition to this Determination, the structure should be lighted with a dual red/medium intensity white strobe system and marked as noted below:

### **High-Visibility Sleeves.**

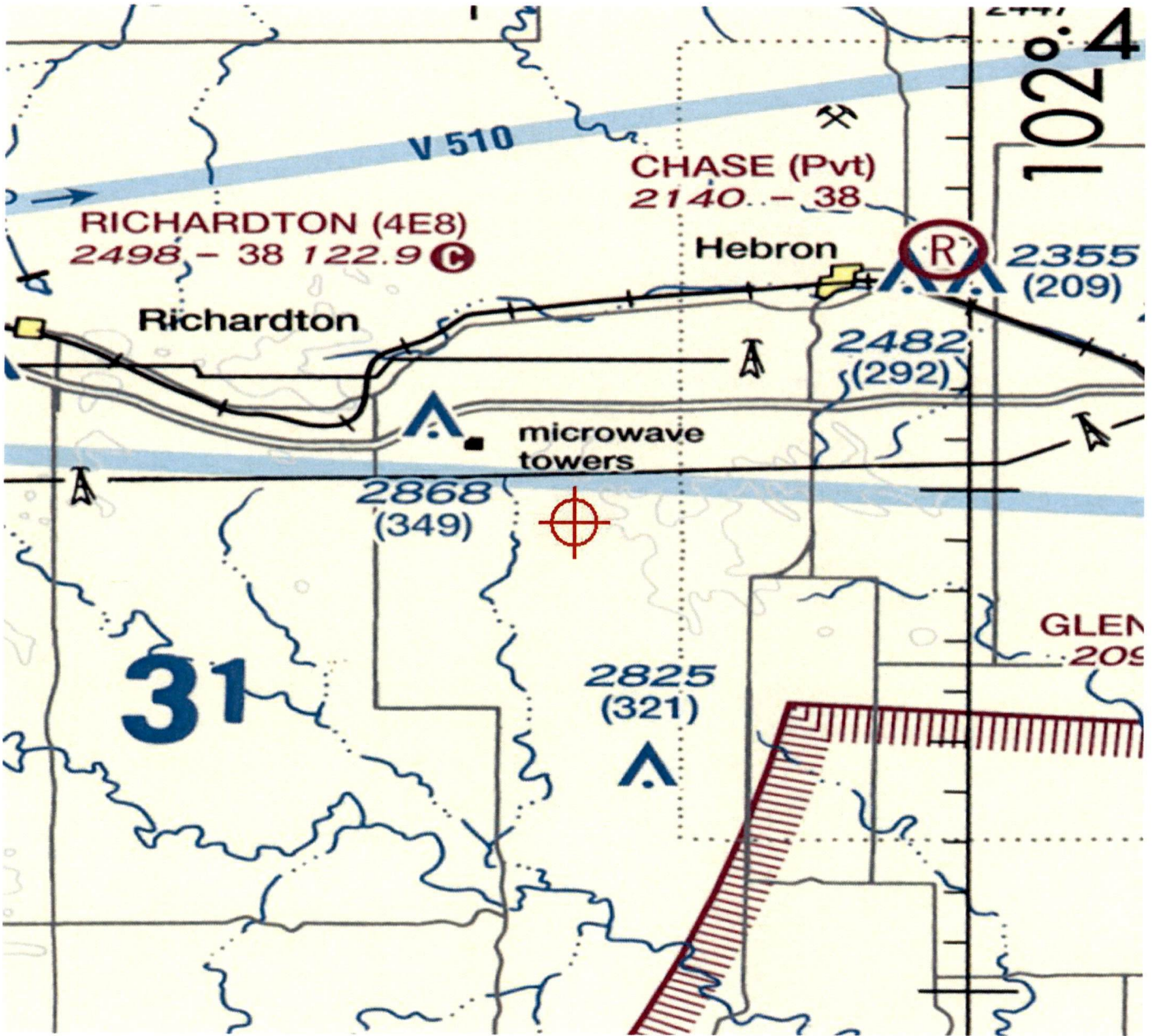
It is recommended that several high-visibility sleeves be installed on the MET's outer guy wires. One high-visibility sleeve should be installed on each guy wire, as close to the anchor point as possible, but at a height well above the crop or vegetation canopy. A second sleeve should be installed on the same outer guy wires midway between the location of the lower sleeve and the upper attachment point of the guy wire to the MET. The use of sleeves should not impact the placement of spherical marker balls.

### **Spherical Markers.**

It is also recommended that high-visibility aviation orange spherical marker (or cable) balls be attached to the guy wires. The FAA recommends a total of 8 high visibility spherical marker (or cable balls) of aviation orange color attached to the guy wires; 4 marker balls should be attached to guy wires at the top of the tower no further than 15 feet from the top wire connection to the tower, and 4 marker balls at or below the mid point of the structure on the outer guy wires.

The FAA recognizes that various weather conditions and manufacturing placement standards may affect the placement and use of high-visibility sleeves and/or spherical markers. Thus, some flexibility is allowed when determining sleeve length and marker placement on METs.

Sectional Map for ASN 2016-WTE-7766-OE





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

Aeronautical Study No.  
2016-WTE-7653-OE  
Prior Study No.  
2014-WTE-5832-OE

Issued Date: 11/04/2016

Cindy Whitney  
Solus Energy Consulting  
430 North College Avenue, Suite 440  
Fort Collins, CO 80524

**\*\* 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 Wind Turbine 27
Location:	Hebron, ND
Latitude:	46-49-35.48N NAD 83
Longitude:	102-05-06.85W
Heights:	2493 feet site elevation (SE) 426 feet above ground level (AGL) 2919 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, 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 1, Obstruction Marking and Lighting, white paint only - Chapters 12&13(Turbines).

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration 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.

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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.

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

If we can be of further assistance, please contact our office at (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-7653-OE.

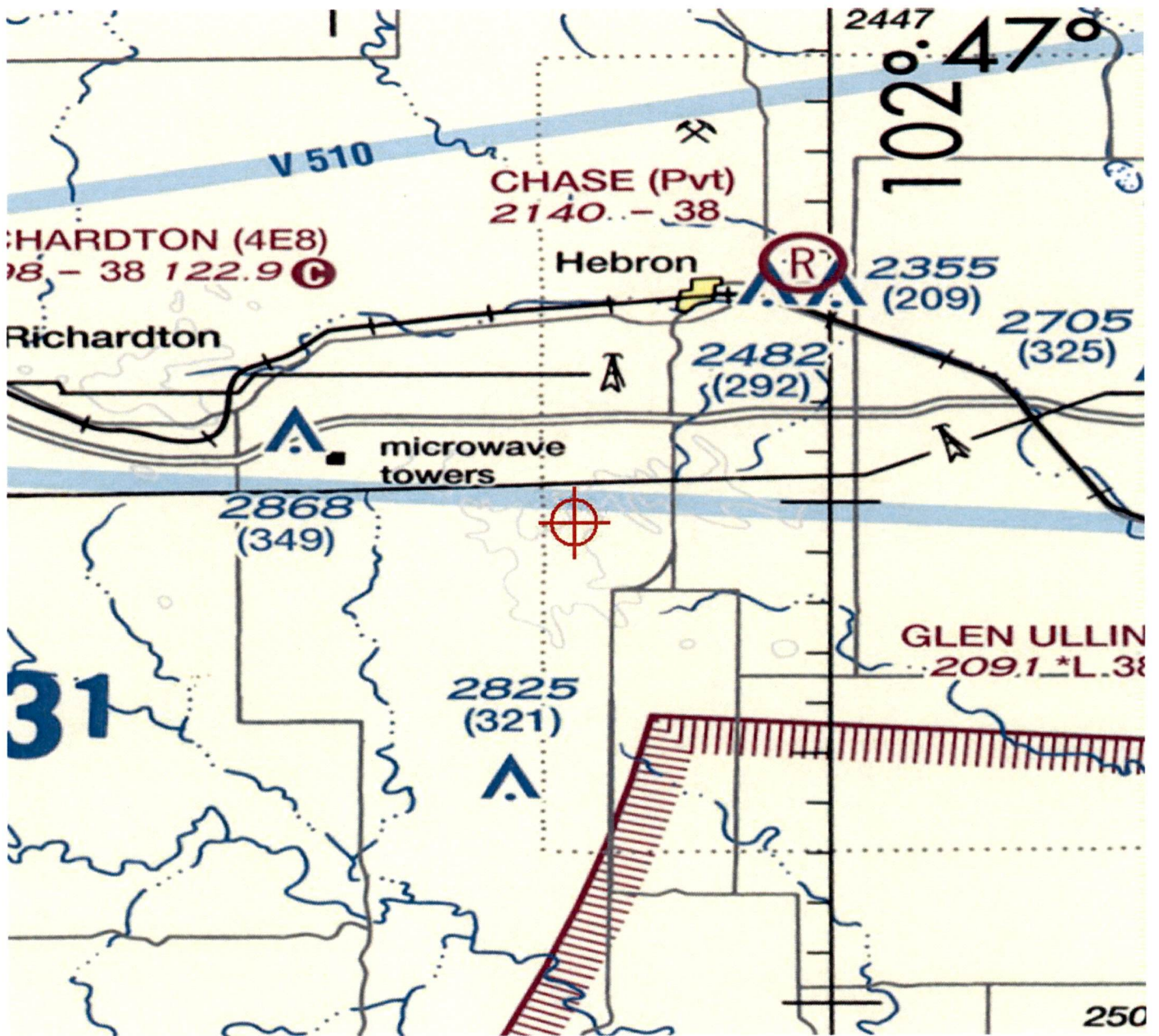
**Signature Control No: 305829391-309386996**

Steve Phillips  
Specialist

( DNE -WT )

Attachment(s)

Map(s)





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

Aeronautical Study No.  
2016-WTE-7870-OE  
Prior Study No.  
2014-WTE-5835-OE

Issued Date: 11/04/2016

Cindy Whitney  
Solus Energy Consulting  
430 North College Avenue, Suite 440  
Fort Collins, CO 80524

**\*\* 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 Wind Turbine 30
Location:	Hebron, ND
Latitude:	46-48-29.32N NAD 83
Longitude:	102-06-01.77W
Heights:	2519 feet site elevation (SE) 426 feet above ground level (AGL) 2945 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, 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 1, Obstruction Marking and Lighting, white paint only - Chapters 12&13(Turbines).

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

If we can be of further assistance, please contact our office at (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-7870-OE.

**Signature Control No: 306389845-309386997**

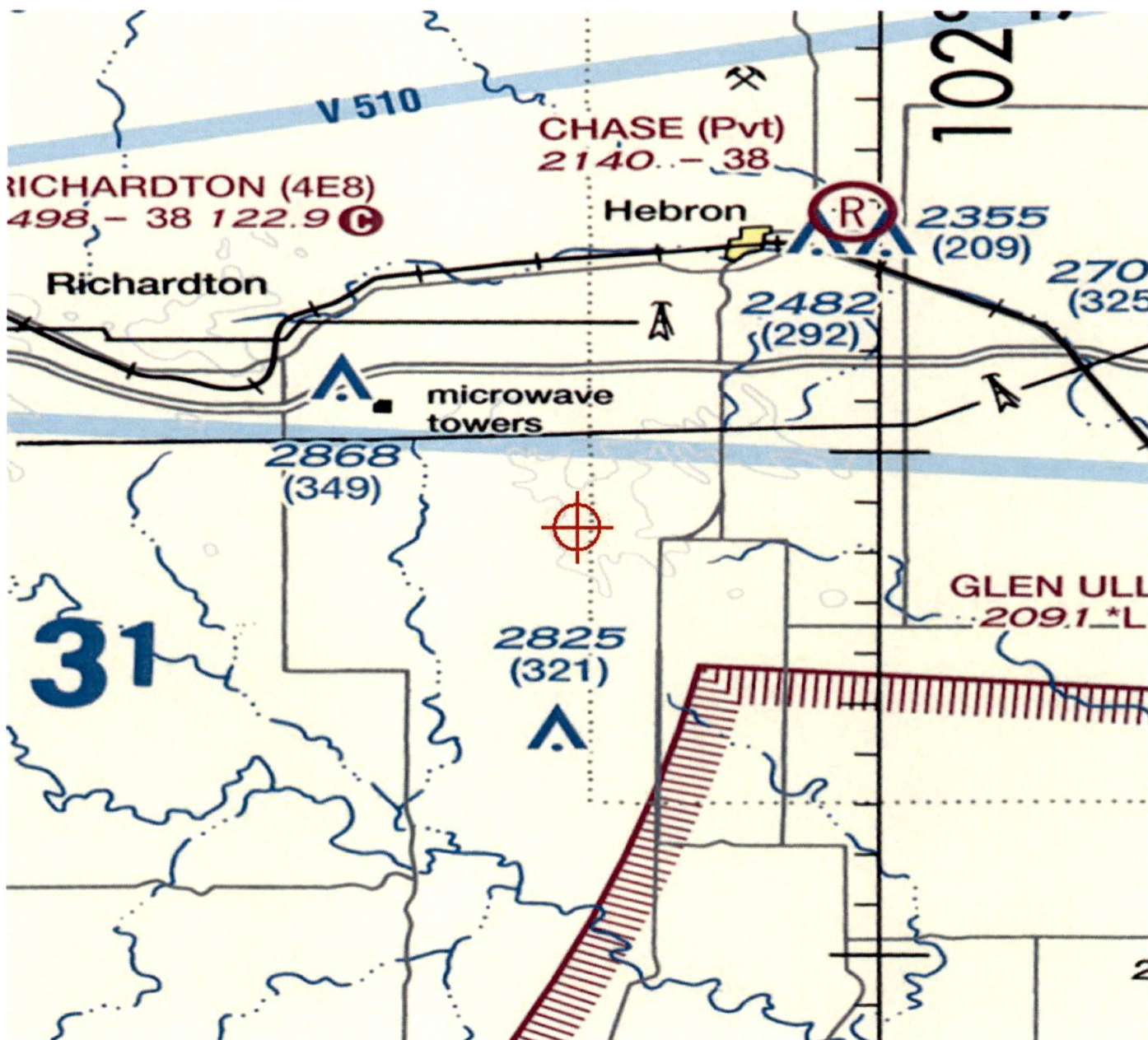
Steve Phillips  
Specialist

( DNE -WT )

Attachment(s)

Map(s)

Sectional Map for ASN 2016-WTE-7870-OE





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

Aeronautical Study No.  
2016-WTE-8440-OE  
Prior Study No.  
2014-WTE-5871-OE

Issued Date: 11/04/2016

Cindy Whitney  
Solus Energy Consulting  
430 North College Avenue, Suite 440  
Fort Collins, CO 80524

**\*\* 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 Wind Turbine A13
Location:	Hebron, ND
Latitude:	46-49-23.09N NAD 83
Longitude:	102-00-33.95W
Heights:	2421 feet site elevation (SE) 426 feet above ground level (AGL) 2847 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, 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 1, Obstruction Marking and Lighting, white paint only - Chapters 12&13(Turbines).

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

If we can be of further assistance, please contact our office at (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-8440-OE.

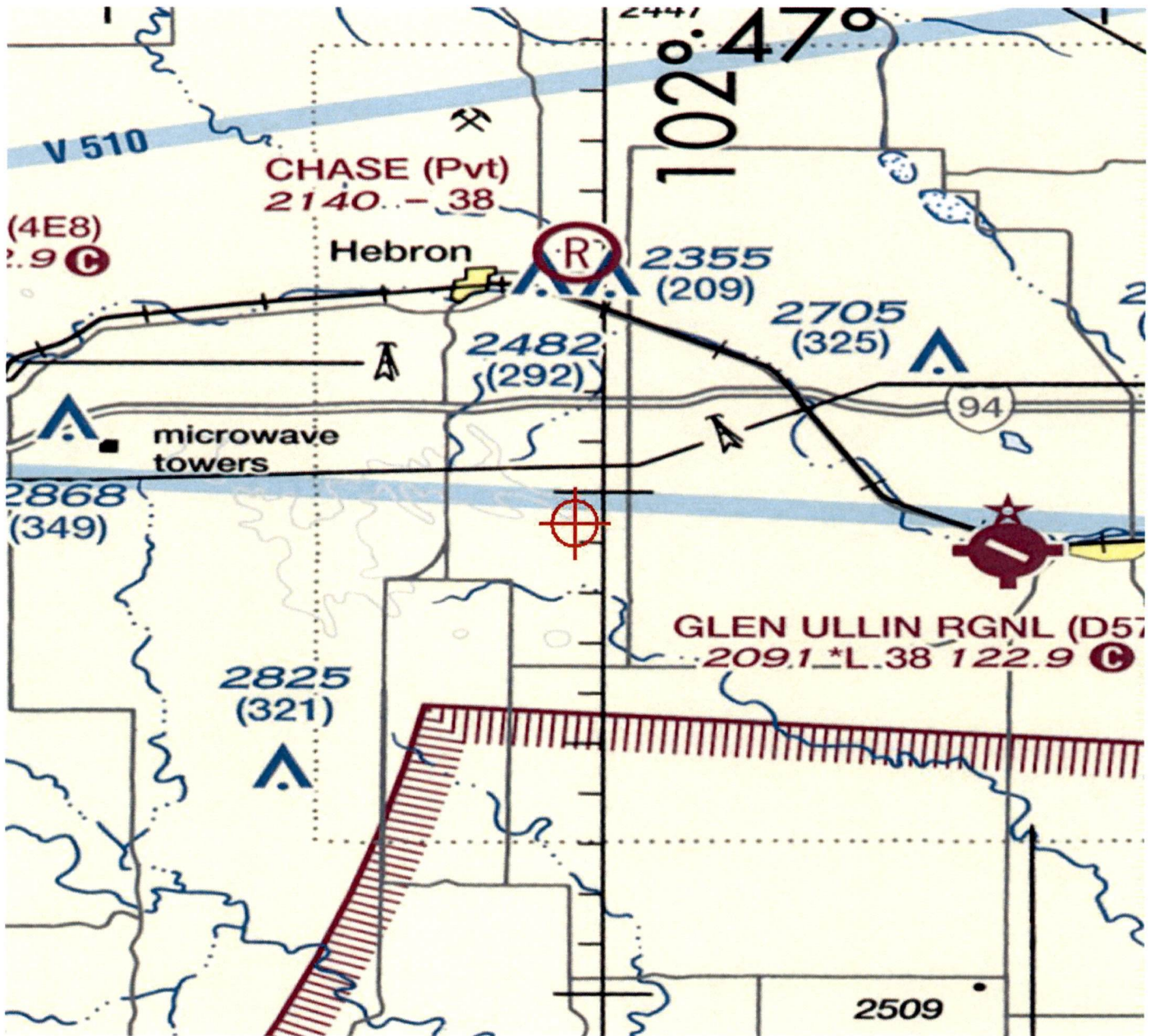
**Signature Control No: 307507006-309386995**

( DNE -WT )

Steve Phillips  
Specialist

Attachment(s)  
Map(s)

Sectional Map for ASN 2016-WTE-8440-OE





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

Aeronautical Study No.  
2016-WTE-7769-OE  
Prior Study No.  
2014-WTE-5829-OE

Issued Date: 11/04/2016

Cindy Whitney  
Solas Energy Consulting  
430 North College Avenue, Suite 440  
Fort Collins, CO 80524

**\*\* 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 Wind Turbine 24
Location:	Hebron, ND
Latitude:	46-49-12.07N NAD 83
Longitude:	102-05-42.93W
Heights:	2520 feet site elevation (SE) 426 feet above ground level (AGL) 2946 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, 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 1, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

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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.

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.

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

If we can be of further assistance, please contact our office at (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-7769-OE.

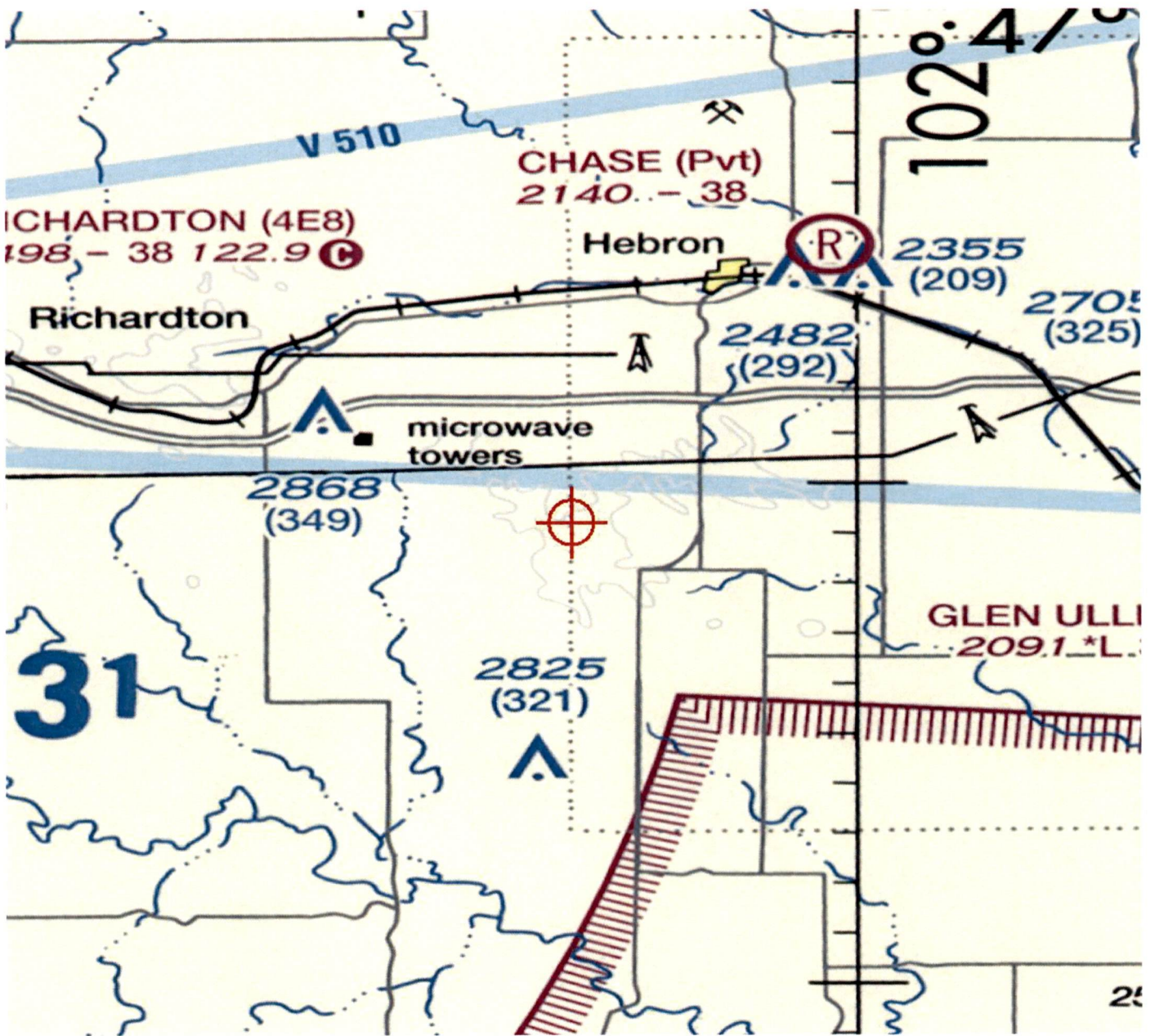
**Signature Control No: 306090053-309386865**

Steve Phillips  
Specialist

( DNE -WT )

Attachment(s)

Map(s)





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

Aeronautical Study No.  
2016-WTE-7869-OE  
Prior Study No.  
2014-WTE-5834-OE

Issued Date: 11/04/2016

Cindy Whitney  
Solas Energy Consulting  
430 North College Avenue, Suite 440  
Fort Collins, CO 80524

**\*\* 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 Wind Turbine 29
Location:	Hebron, ND
Latitude:	46-48-25.53N NAD 83
Longitude:	102-06-20.44W
Heights:	2521 feet site elevation (SE) 426 feet above ground level (AGL) 2947 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, 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 1, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration 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.

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

If we can be of further assistance, please contact our office at (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-7869-OE.

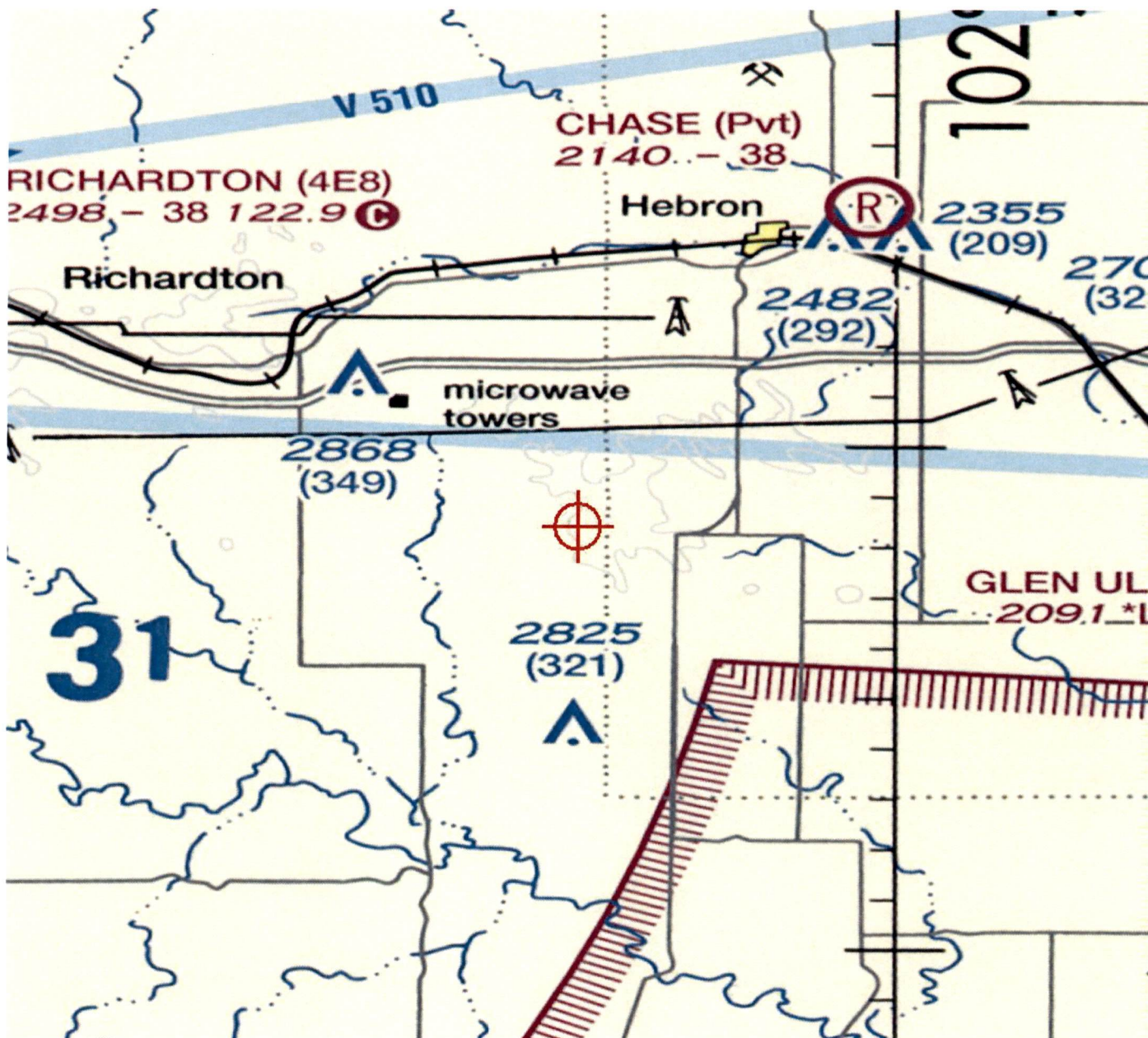
**Signature Control No: 306388884-309386857**

Steve Phillips  
Specialist

( DNE -WT )

Attachment(s)  
Map(s)

Sectional Map for ASN 2016-WTE-7869-OE





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

Aeronautical Study No.  
2016-WTE-8127-OE  
Prior Study No.  
2014-WTE-5841-OE

Issued Date: 11/04/2016

Cindy Whitney  
Solas Energy Consulting  
430 North College Avenue, Suite 440  
Fort Collins, CO 80524

**\*\* 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 Wind Turbine 36
Location:	Hebron, ND
Latitude:	46-49-11.24N NAD 83
Longitude:	102-04-17.87W
Heights:	2448 feet site elevation (SE) 426 feet above ground level (AGL) 2874 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, 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 1, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration requires separate notice to the FAA.

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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.

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

If we can be of further assistance, please contact our office at (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-8127-OE.

**Signature Control No: 306947233-309386859**

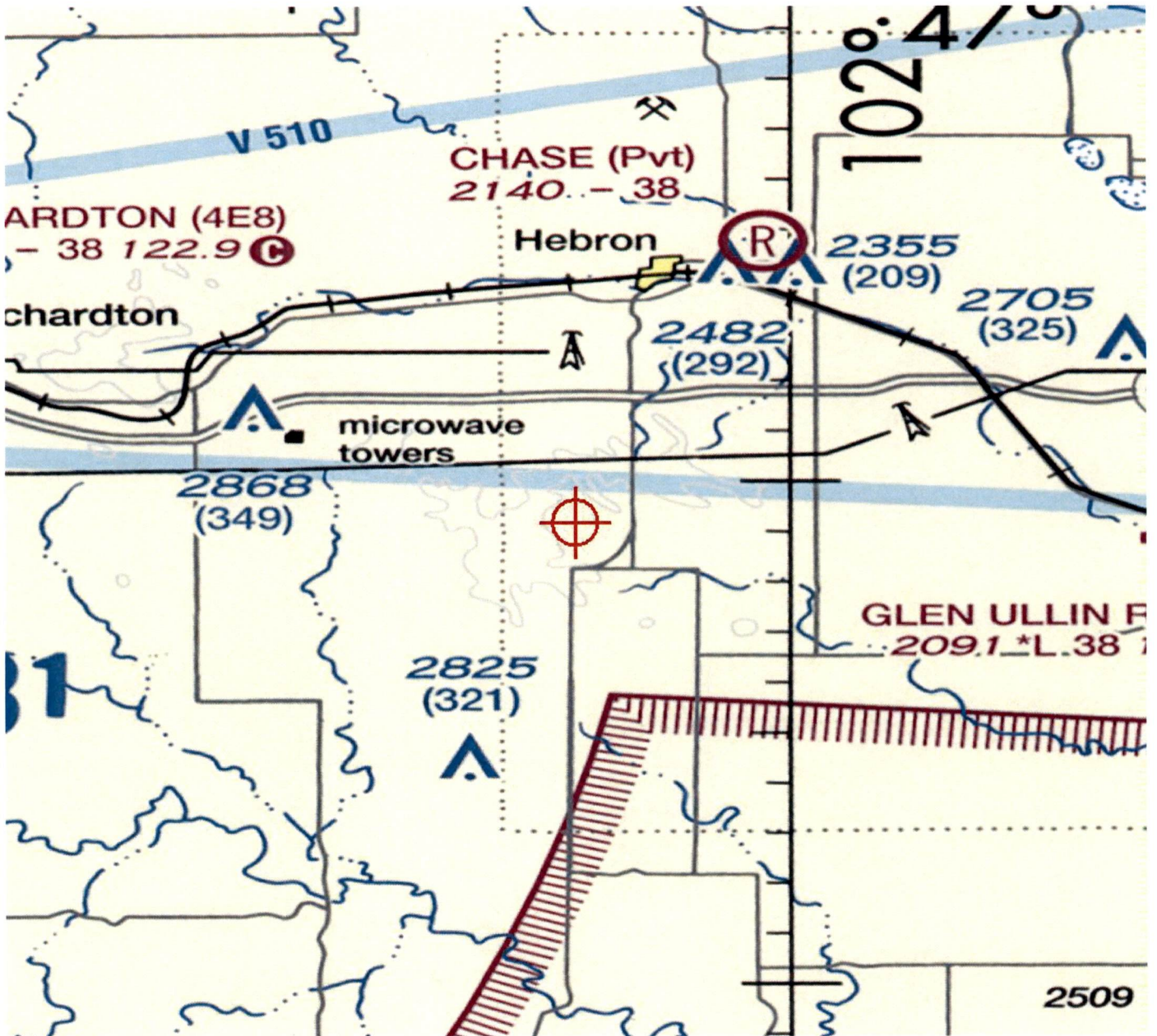
Steve Phillips  
Specialist

( DNE -WT )

Attachment(s)

Map(s)

Sectional Map for ASN 2016-WTE-8127-OE





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

Aeronautical Study No.  
2016-WTE-8130-OE  
Prior Study No.  
2014-WTE-5865-OE

Issued Date: 11/04/2016

Cindy Whitney  
Solas Energy Consulting  
430 North College Avenue, Suite 440  
Fort Collins, CO 80524

**\*\* 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 Wind Turbine A07
Location:	Hebron, ND
Latitude:	46-49-32.45N NAD 83
Longitude:	102-03-25.82W
Heights:	2432 feet site elevation (SE) 426 feet above ground level (AGL) 2858 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, 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 1, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration 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

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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.

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

If we can be of further assistance, please contact our office at (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-8130-OE.

**Signature Control No: 306947310-309386862**

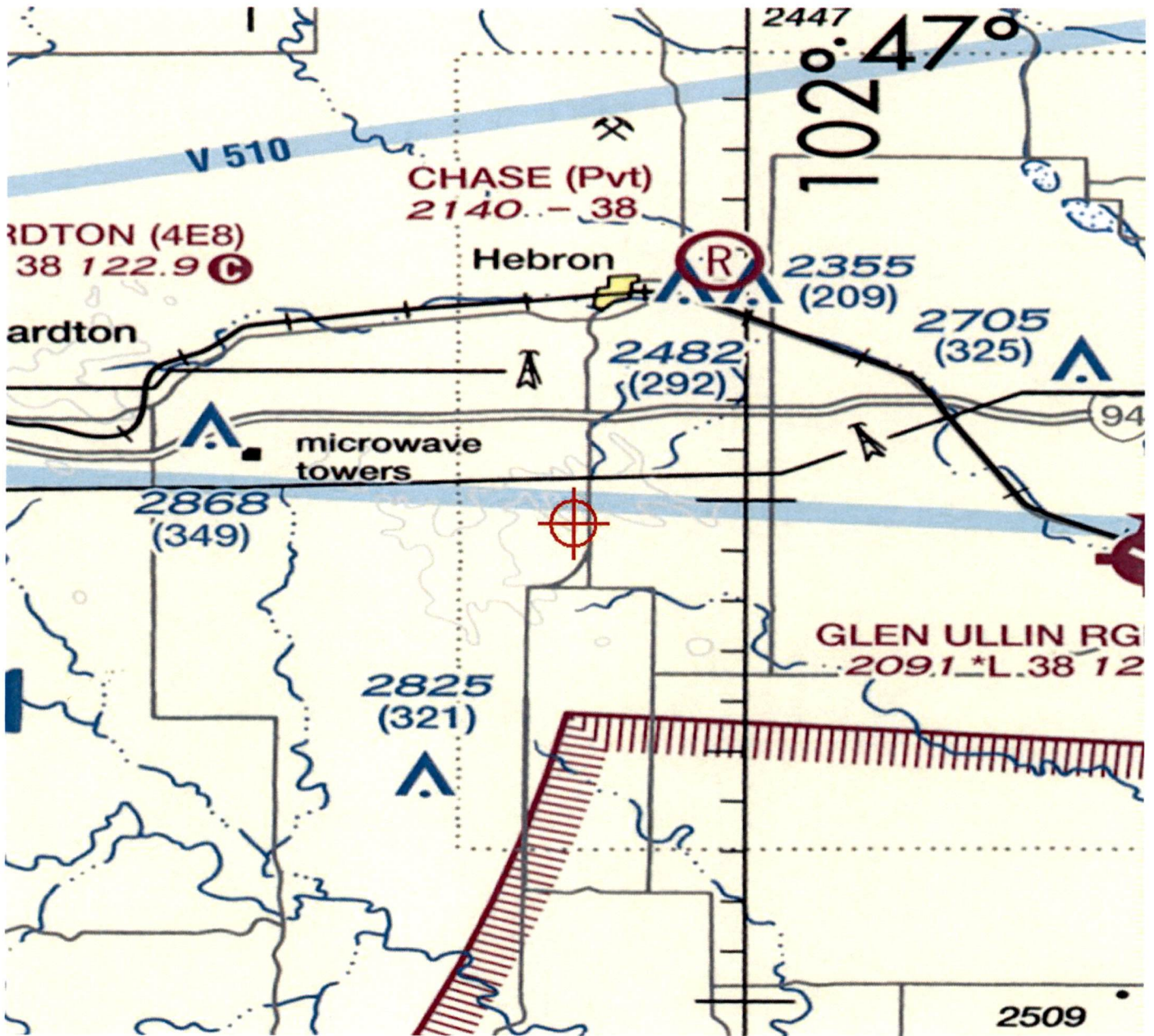
Steve Phillips  
Specialist

( DNE -WT )

Attachment(s)

Map(s)

Sectional Map for ASN 2016-WTE-8130-OE





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

Aeronautical Study No.  
2016-WTE-8441-OE  
Prior Study No.  
2014-WTE-5870-OE

Issued Date: 11/04/2016

Cindy Whitney  
Solus Energy Consulting  
430 North College Avenue, Suite 440  
Fort Collins, CO 80524

**\*\* 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 Wind Turbine A12
Location:	Hebron, ND
Latitude:	46-49-14.23N NAD 83
Longitude:	102-00-49.06W
Heights:	2439 feet site elevation (SE) 426 feet above ground level (AGL) 2865 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, 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 1, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration 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.

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

If we can be of further assistance, please contact our office at (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-8441-OE.

**Signature Control No: 307507015-309386864**

Steve Phillips  
Specialist

( DNE -WT )

Attachment(s)

Map(s)

Sectional Map for ASN 2016-WTE-8441-OE





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

Aeronautical Study No.  
2016-WTE-8443-OE  
Prior Study No.  
2014-WTE-5856-OE

Issued Date: 11/04/2016

Cindy Whitney  
Solas Energy Consulting  
430 North College Avenue, Suite 440  
Fort Collins, CO 80524

**\*\* 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 Wind Turbine 51
Location:	Hebron, ND
Latitude:	46-49-32.48N NAD 83
Longitude:	102-00-22.52W
Heights:	2420 feet site elevation (SE) 426 feet above ground level (AGL) 2846 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, 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 1, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration requires separate notice to the FAA.

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

If we can be of further assistance, please contact our office at (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-8443-OE.

**Signature Control No: 307507035-309386858**

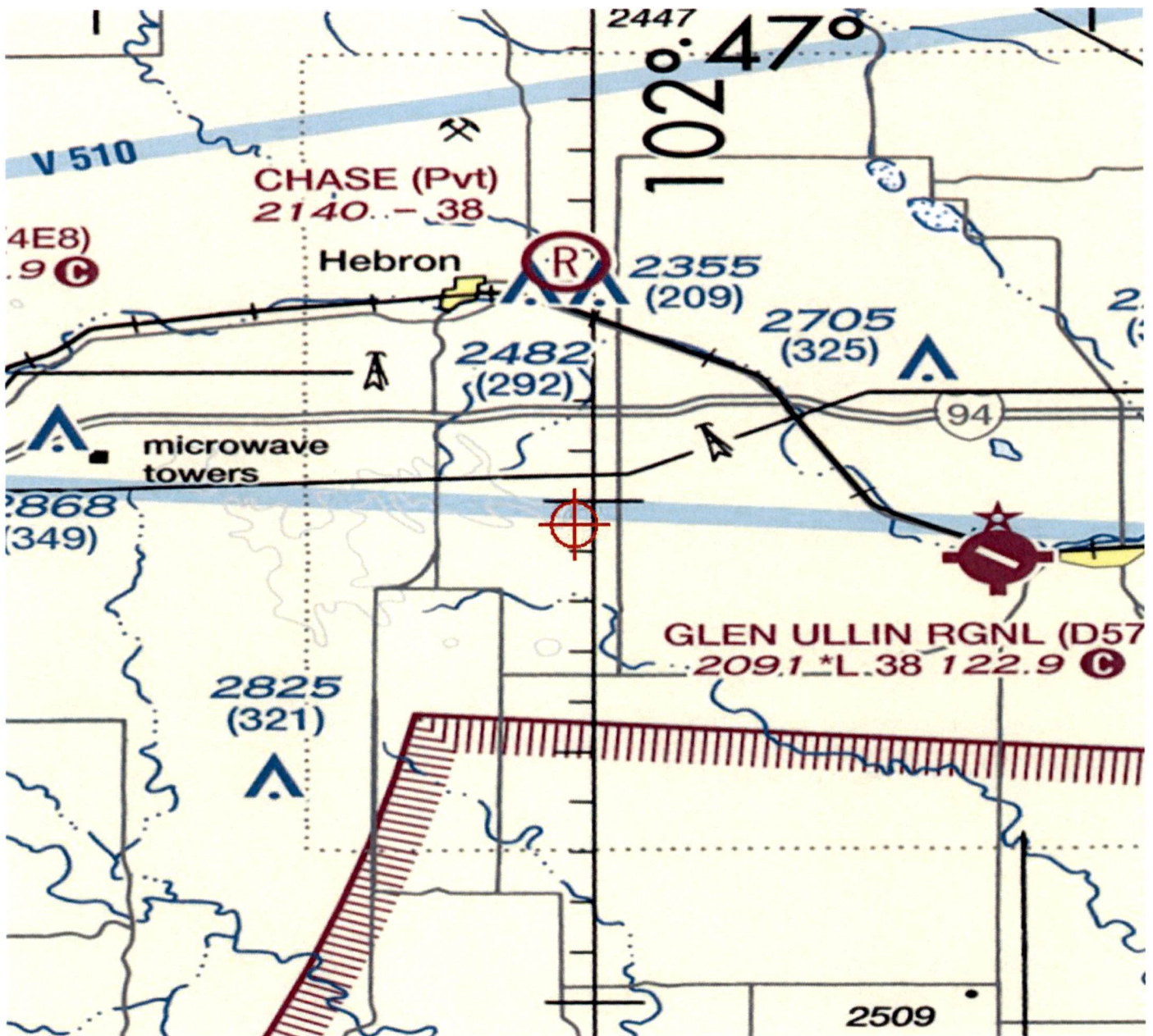
Steve Phillips  
Specialist

( DNE -WT )

Attachment(s)

Map(s)

Sectional Map for ASN 2016-WTE-8443-





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

Aeronautical Study No.  
2014-WTE-5845-OE  
Prior Study No.  
2012-WTE-3781-OE

Issued Date: 11/04/2016

Casey Willis  
Sunflower Wind Project, LLC  
3760 State Street  
Suite 200  
Santa Barbara, CA 93105

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\* (CORRECTION)**

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 40
Location:	Hebron, ND
Latitude:	46-49-32.50N NAD 83
Longitude:	102-02-34.79W
Heights:	2447 feet site elevation (SE) 426 feet above ground level (AGL) 2873 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, 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 1, Obstruction Marking and Lighting, white paint only - Chapters 12&13(Turbines).

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration requires separate notice to the FAA.

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

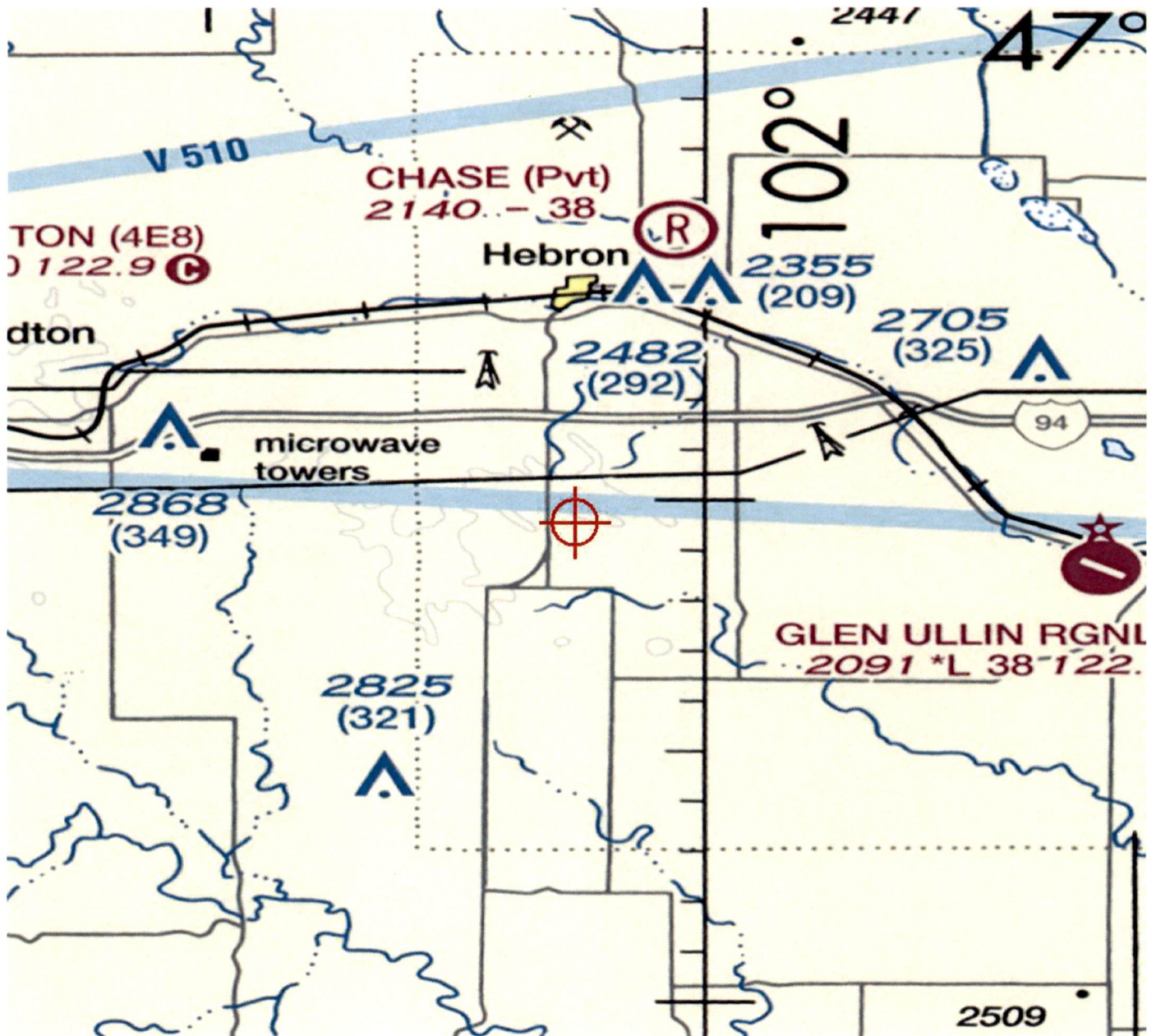
If we can be of further assistance, please contact our office at (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2014-WTE-5845-OE.

**Signature Control No: 232652593-309350427**  
Steve Phillips  
Specialist

( DNE -WT )

Attachment(s)  
Map(s)

Sectional Map for ASN 2014-WTE-5845-OE



Serving: Grant • Mercer • Morton • Oliver • Sioux Counties  
and the City of Mandan



210 Second Avenue Northwest  
Mandan, North Dakota 58554  
701-667-3370 • Fax: 701-667-3371



**Public Health**  
Prevent. Promote. Protect.

**APPLICATION FOR CONSTRUCTION or ALTERATION OF AN ON-SITE TREATMENT SYSTEM  
(RESIDENTIAL ONLY)**

Fill out completely and return to appropriate office location above.

**Fee: \$100.00 (PLEASE MAKE CHECKS PAYABLE TO CHU)**

OWNER: Sunflower Wind Pkwy, LLC DATE: 10/27/2015  
MAILING ADDRESS: 7687 40th St CITY, STATE, ZIP: Hebron, ND 58638  
PROPERTY ADDRESS 7687 40th St CITY, STATE, ZIP: Hebron, ND 58638  
PHONE NUMBER: 612-599-4251 INSTALLER: MA Mortenson Construction

**\*\* THIS SECTION MUST BE FILLED IN COMPLETELY OR APPLICATION WILL NOT BE PROCESSED**

LEGAL DESCRIPTION: \_\_\_\_\_  
(metes and bounds, qtr, qtr OR Subdivision Name, lot and Block)

SEC. 20 - TWP. 139 N - RAN 90 W

COUNTY Morton TOWNSHIP 139 N RANGE 90 W SECTION 20 QTR/QTR: SW/SE

HOW BIG IS THE PARCEL OF LAND IN SQUARE FEET OR ACRES? 43540 SQ FT

IS THIS A: NEW  ALTERATION  REPAIR  REPLACEMENT SYSTEM

NUMBER OF BEDROOMS: FINISHED: \_\_\_\_\_ UNFINISHED: \_\_\_\_\_ CONSTR. DATE: \_\_\_\_\_

**WORKSHEET FOR ONSITE WASTEWATER TREATMENT SYSTEM:**

Number of bedrooms: \_\_\_\_\_ X 150 gallons = \_\_\_\_\_ gallons per day. (A) = (design flow rate)

Soil type: From table: \_\_\_\_\_ sf/gpd X \_\_\_\_\_ = \_\_\_\_\_ sq ft  
[SOIL TYPE FROM TABLE] X A) = (DRAINFIELD SIZE)]

SOIL TYPE	sf/gpd
Sand	0.83
(medium)	
sandy loam	1.25
Fine sand	1.67
loam	1.67
silt loam	2.0
clay	2.2
"fat" clay*	4.2*

SEPTIC TANK SIZE	
# BEDROOMS	WORKING CAPACITY
1 - 3	1000
4	1200
5 - 6	1500
7 - 8	2000

\*\*\*\*\*  
I, THE UNDERSIGNED, MAKE APPLICATION FOR THE CONSTRUCTION, ALTERATION OR REPAIR OF AN ONSITE SEWAGE TREATMENT SYSTEM. BY AFFIXING MY SIGNATURE BELOW, I AGREE TO ADHERE TO THE PROVISIONS OF THE ND STATE PLUMBING CODE CHAPTER 62-03.1-03 AND THE REGULATIONS OF CUSTER HEALTH UNIT.

SIGNATURE: [Signature] DATE: 10-27-15

(CONTINUED ON BACK PAGE)



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

Aeronautical Study No.  
2016-WTE-7768-OE  
Prior Study No.  
2015-WTE-3290-OE

Issued Date: 11/04/2016

Cindy Whitney  
Solas Energy Consulting  
430 North College Avenue, Suite 440  
Fort Collins, CO 80524

**\*\* 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:	Met Tower Met Tower PMT 44-45
Location:	Hebron, ND
Latitude:	46-49-24.61N NAD 83
Longitude:	102-00-21.59W
Heights:	2419 feet site elevation (SE) 263 feet above ground level (AGL) 2682 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, 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 1, Obstruction Marking and Lighting, a med-dual system - Chapters 4,8(M-Dual),&12.

**See attachment for additional condition(s) or information.**

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration 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.

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.

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

If we can be of further assistance, please contact our office at (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-7768-OE.

**Signature Control No: 306090000-309387880**  
Steve Phillips  
Specialist

( DNE -WT )

Attachment(s)  
Additional Information  
Map(s)

## **Additional information for ASN 2016-WTE-7768-OE**

As a condition to this Determination, the structure should be lighted with a dual red/medium intensity white strobe system and marked as noted below:

### **High-Visibility Sleeves.**

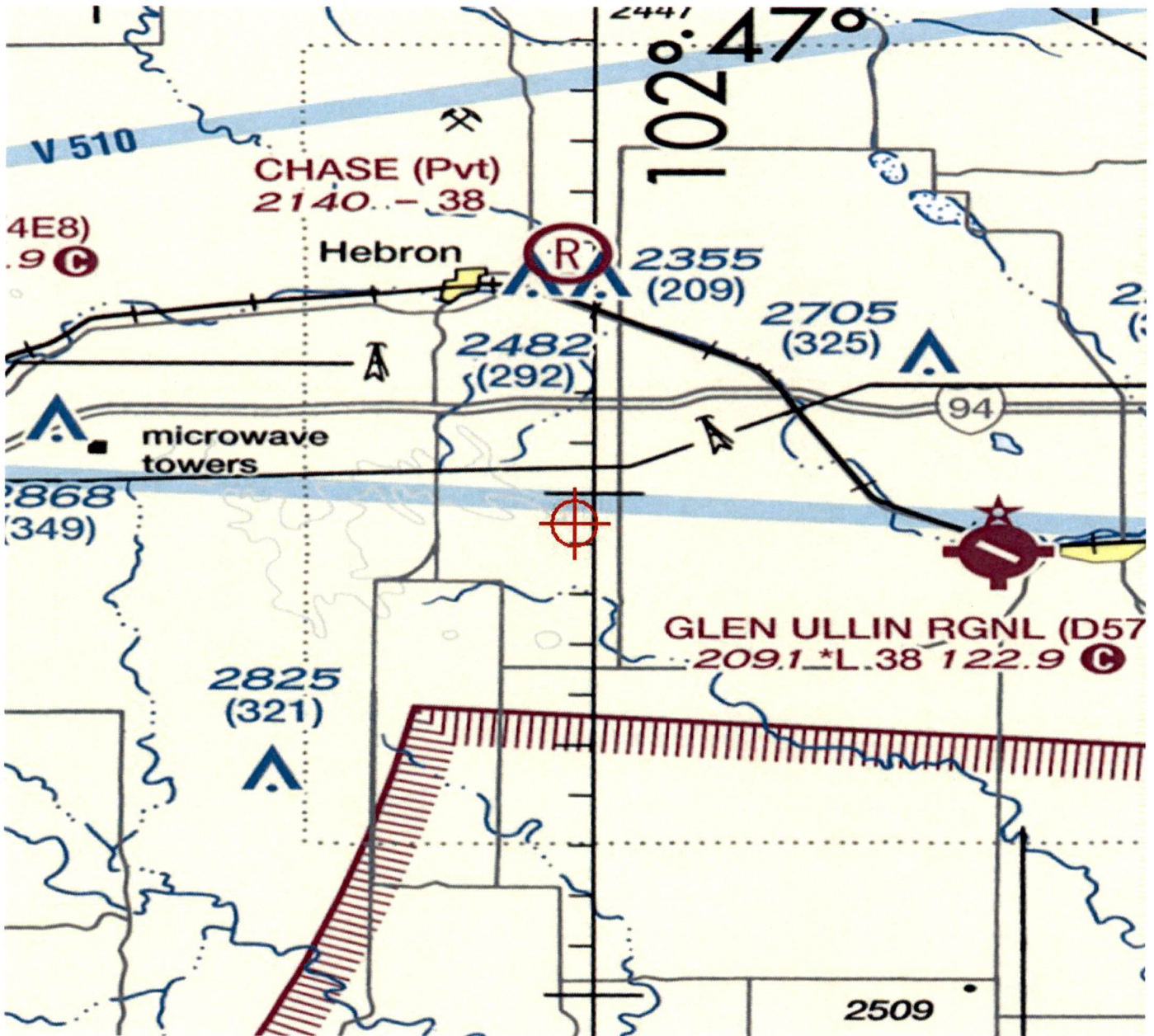
It is recommended that several high-visibility sleeves be installed on the MET's outer guy wires. One high-visibility sleeve should be installed on each guy wire, as close to the anchor point as possible, but at a height well above the crop or vegetation canopy. A second sleeve should be installed on the same outer guy wires midway between the location of the lower sleeve and the upper attachment point of the guy wire to the MET. The use of sleeves should not impact the placement of spherical marker balls.

### **Spherical Markers.**

It is also recommended that high-visibility aviation orange spherical marker (or cable) balls be attached to the guy wires. The FAA recommends a total of 8 high visibility spherical marker (or cable balls) of aviation orange color attached to the guy wires; 4 marker balls should be attached to guy wires at the top of the tower no further than 15 feet from the top wire connection to the tower, and 4 marker balls at or below the mid point of the structure on the outer guy wires.

The FAA recognizes that various weather conditions and manufacturing placement standards may affect the placement and use of high-visibility sleeves and/or spherical markers. Thus, some flexibility is allowed when determining sleeve length and marker placement on METs.

Sectional Map for ASN 2016-WTE-7768-OE





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

Aeronautical Study No.  
2016-WTE-7872-OE  
Prior Study No.  
2014-WTE-5837-OE

Issued Date: 11/04/2016

Cindy Whitney  
Solus Energy Consulting  
430 North College Avenue, Suite 440  
Fort Collins, CO 80524

**\*\* 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 Wind Turbine 32  
Location: Hebron, ND  
Latitude: 46-48-48.40N NAD 83  
Longitude: 102-05-26.20W  
Heights: 2521 feet site elevation (SE)  
426 feet above ground level (AGL)  
2947 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, 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 1, Obstruction Marking and Lighting, white paint only - Chapters 12&13(Turbines).

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration 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.

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.

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

If we can be of further assistance, please contact our office at (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-7872-OE.

**Signature Control No: 306390644-309387140**

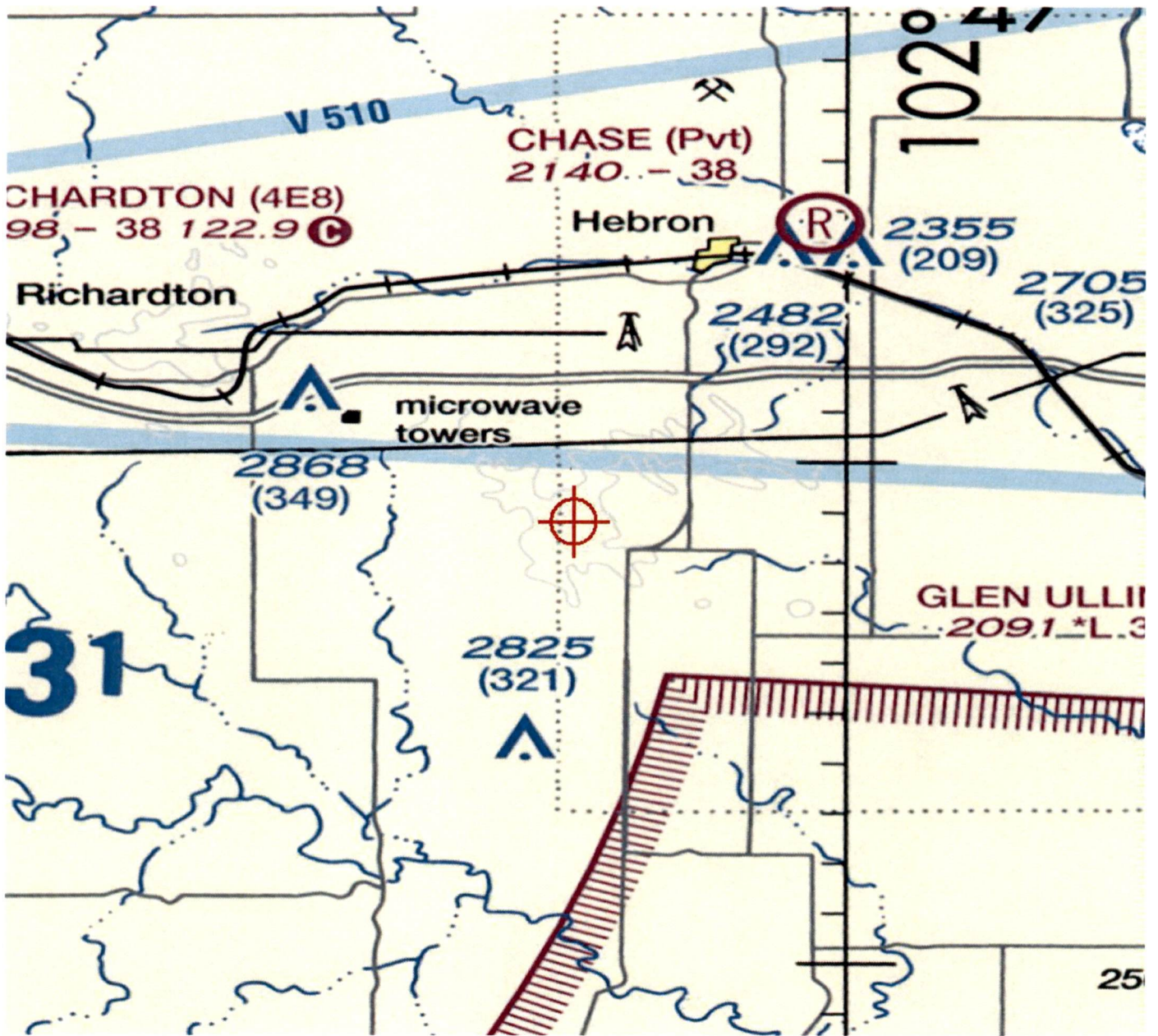
Steve Phillips  
Specialist

( DNE -WT )

Attachment(s)

Map(s)

Sectional Map for ASN 2016-WTE-7872-OE





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

Aeronautical Study No.  
2016-WTE-7767-OE  
Prior Study No.  
2014-WTE-5830-OE

Issued Date: 11/04/2016

Cindy Whitney  
Solas Energy Consulting  
430 North College Avenue, Suite 440  
Fort Collins, CO 80524

**\*\* 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 Wind Turbine 25
Location:	Hebron, ND
Latitude:	46-49-24.33N NAD 83
Longitude:	102-05-34.69W
Heights:	2507 feet site elevation (SE) 426 feet above ground level (AGL) 2933 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, 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 1, Obstruction Marking and Lighting, white paint only - Chapters 12&13(Turbines).

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration 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.

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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.

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

If we can be of further assistance, please contact our office at (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-7767-OE.

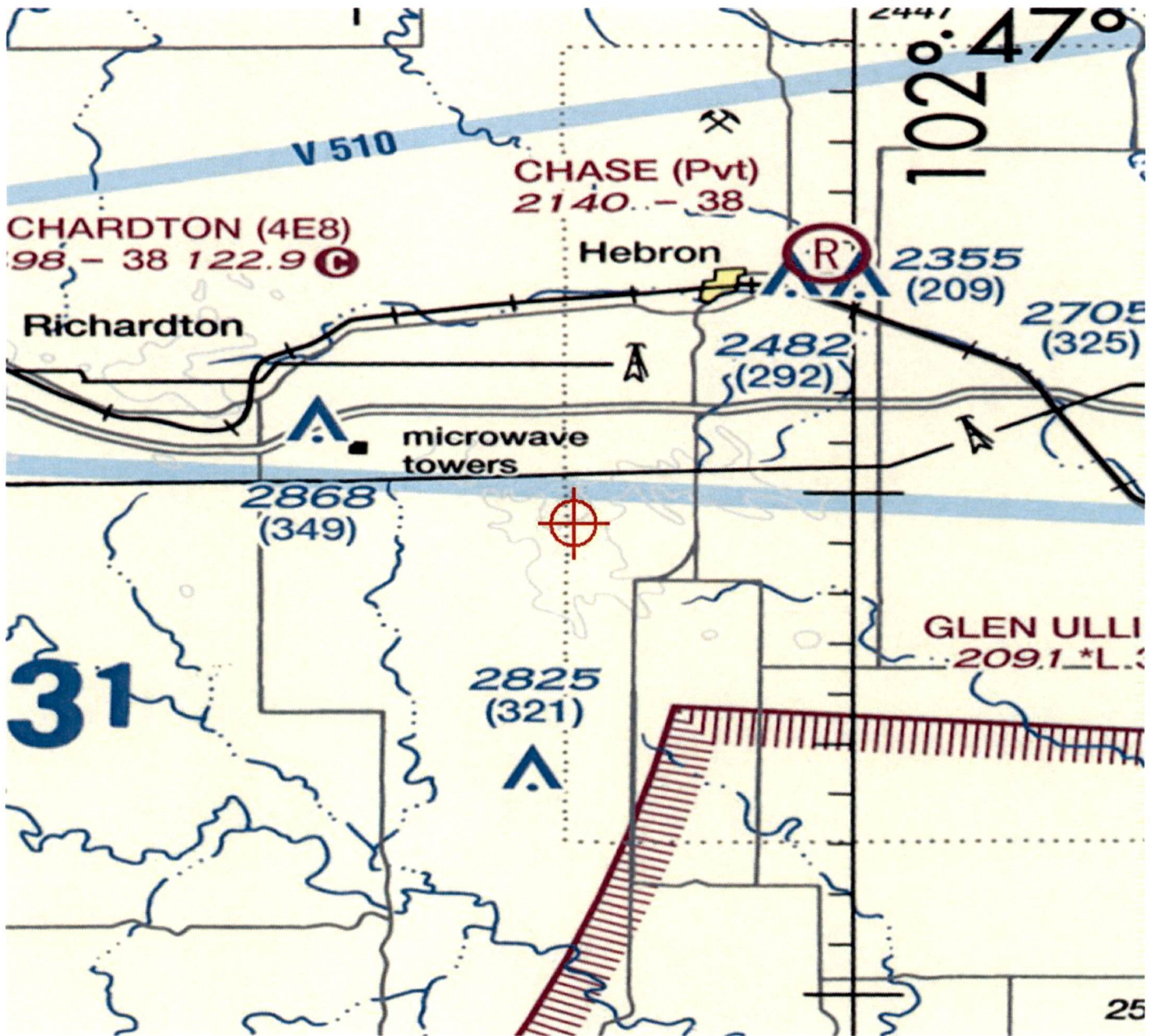
**Signature Control No: 306089572-309386998**

Steve Phillips  
Specialist

( DNE -WT )

Attachment(s)

Map(s)





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

Aeronautical Study No.  
2016-WTE-8129-OE  
Prior Study No.  
2014-WTE-5843-OE

Issued Date: 11/04/2016

Cindy Whitney  
Solas Energy Consulting  
430 North College Avenue, Suite 440  
Fort Collins, CO 80524

**\*\* 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 Wind Turbine 38
Location:	Hebron, ND
Latitude:	46-49-29.57N NAD 83
Longitude:	102-03-45.86W
Heights:	2433 feet site elevation (SE) 426 feet above ground level (AGL) 2859 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, 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 1, Obstruction Marking and Lighting, white paint only - Chapters 12&13(Turbines).

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration 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.

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.

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

If we can be of further assistance, please contact our office at (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-8129-OE.

**Signature Control No: 306947294-309386999**

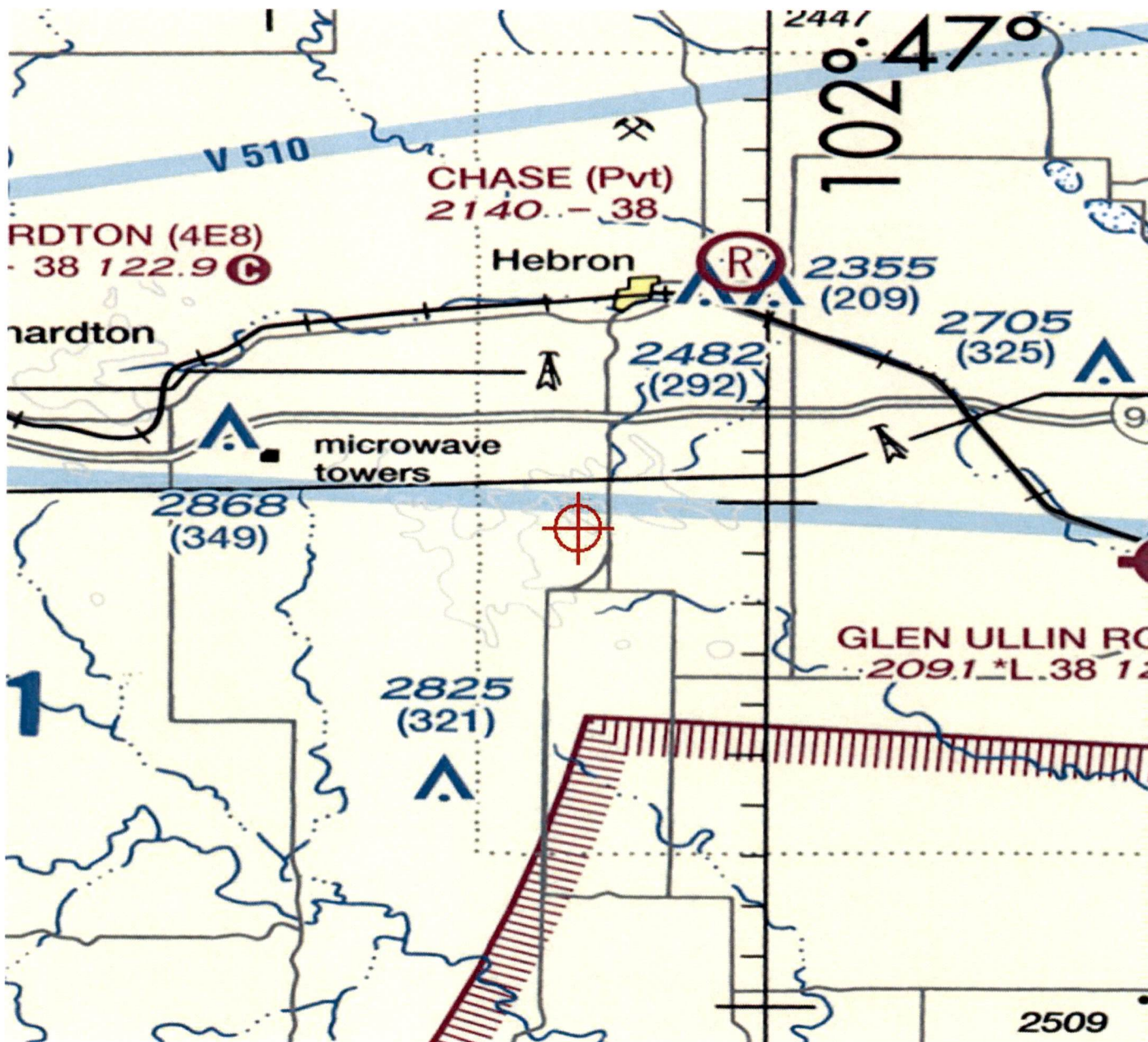
Steve Phillips  
Specialist

( DNE -WT )

Attachment(s)

Map(s)

Sectional Map for ASN 2016-WTE-8129-OE





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

Aeronautical Study No.  
2016-WTE-7651-OE  
Prior Study No.  
2014-WTE-5831-OE

Issued Date: 11/04/2016

Cindy Whitney  
Solas Energy Consulting  
430 North College Avenue, Suite 440  
Fort Collins, CO 80524

**\*\* 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 Wind Turbine 26
Location:	Hebron, ND
Latitude:	46-49-29.20N NAD 83
Longitude:	102-05-20.19W
Heights:	2498 feet site elevation (SE) 426 feet above ground level (AGL) 2924 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, 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 1, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration 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.

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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.

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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.

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.

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

If we can be of further assistance, please contact our office at (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-7651-OE.

**Signature Control No: 305829270-309386861**

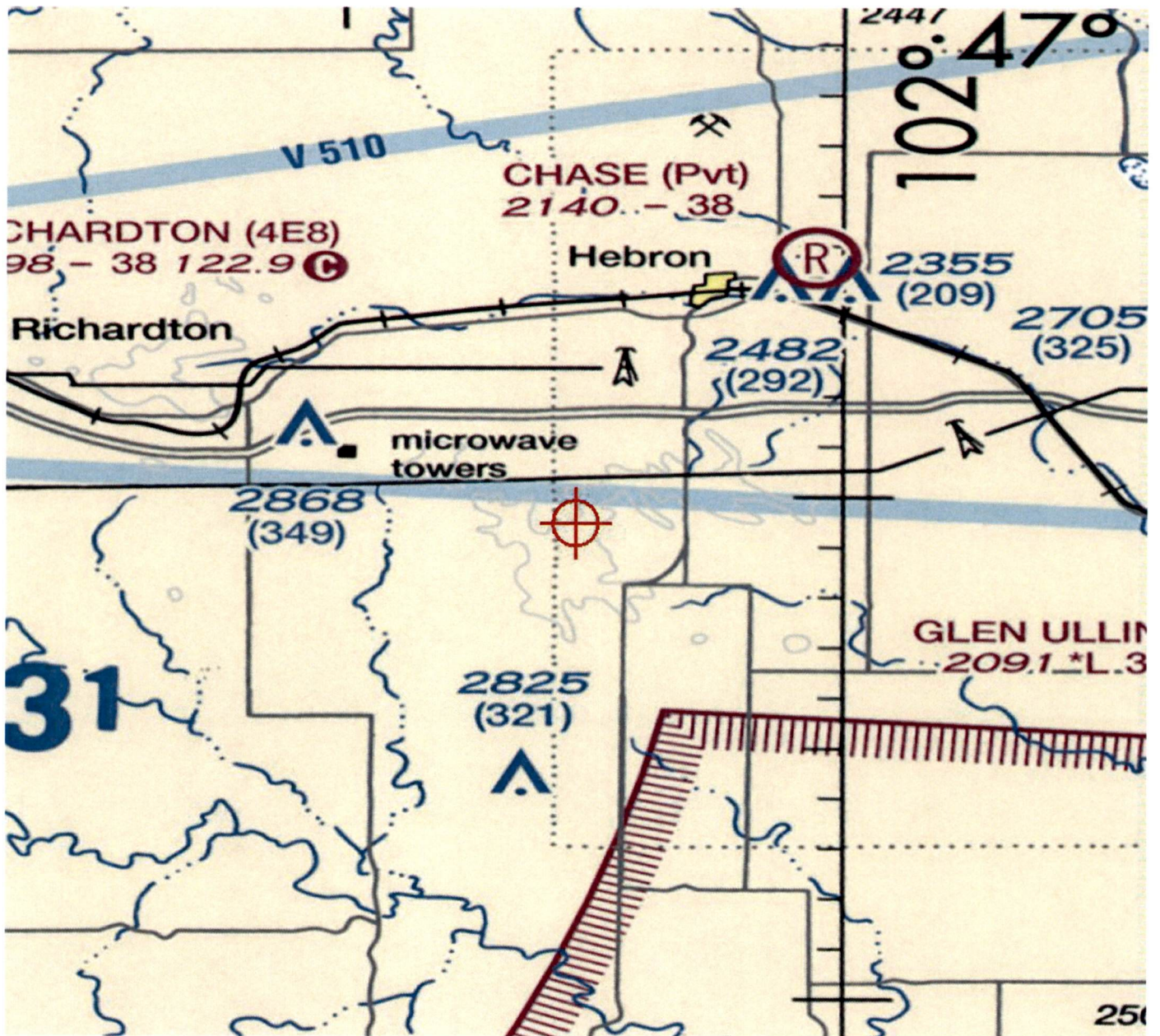
Steve Phillips  
Specialist

( DNE -WT )

Attachment(s)

Map(s)

Sectional Map for ASN 2016-WTE-7651-OE





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

Aeronautical Study No.  
2016-WTE-7770-OE  
Prior Study No.  
2014-WTE-5838-OE

Issued Date: 11/04/2016

Cindy Whitney  
Solas Energy Consulting  
430 North College Avenue, Suite 440  
Fort Collins, CO 80524

**\*\* 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 Wind Turbine 33  
Location: Hebron, ND  
Latitude: 46-48-52.19N NAD 83  
Longitude: 102-05-09.82W  
Heights: 2533 feet site elevation (SE)  
426 feet above ground level (AGL)  
2959 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, 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 1, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration 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

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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.

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

If we can be of further assistance, please contact our office at (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-7770-OE.

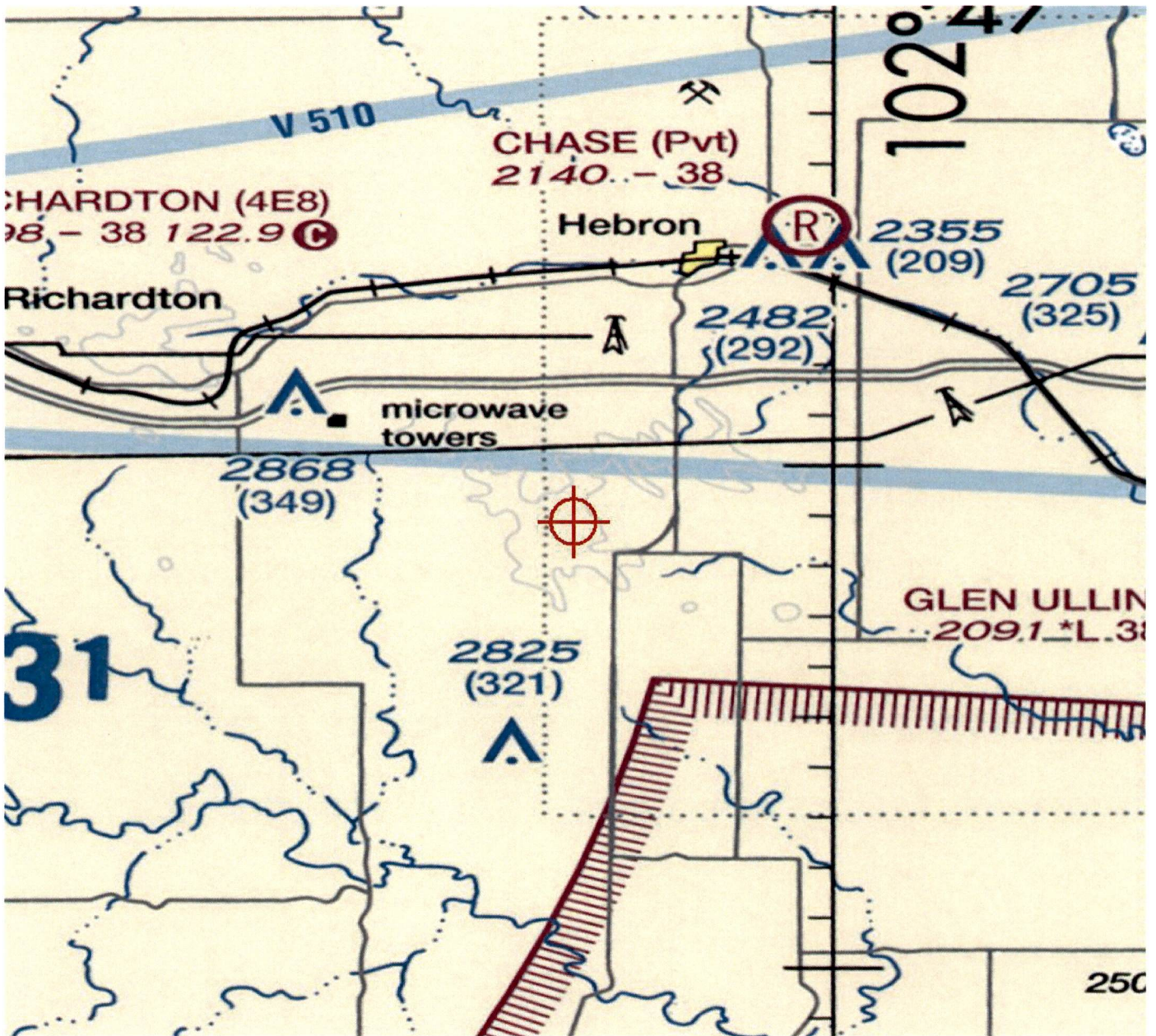
**Signature Control No: 306090812-309386853**

( DNE -WT )

Steve Phillips  
Specialist

Attachment(s)  
Map(s)

Sectional Map for ASN 2016-WTE-7770-OE





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

Aeronautical Study No.  
2016-WTE-7871-OE  
Prior Study No.  
2014-WTE-5836-OE

Issued Date: 11/04/2016

Cindy Whitney  
Solas Energy Consulting  
430 North College Avenue, Suite 440  
Fort Collins, CO 80524

**\*\* 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 Wind Turbine 31
Location:	Hebron, ND
Latitude:	46-48-33.41N NAD 83
Longitude:	102-05-40.41W
Heights:	2529 feet site elevation (SE) 426 feet above ground level (AGL) 2955 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, 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 1, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration 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.

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.

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

If we can be of further assistance, please contact our office at (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-7871-OE.

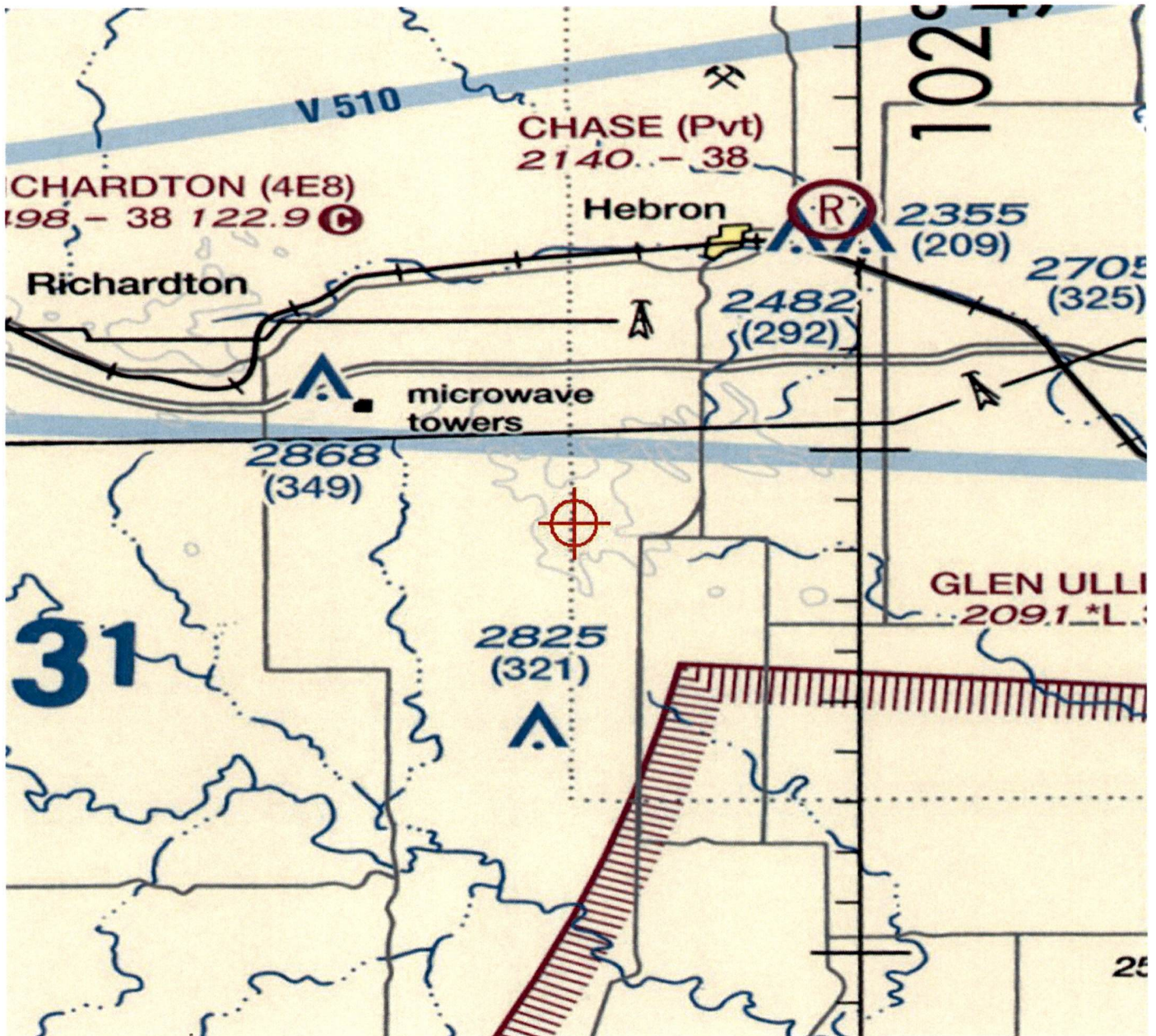
**Signature Control No: 306390314-309386860**

Steve Phillips  
Specialist

( DNE -WT )

Attachment(s)  
Map(s)

Sectional Map for ASN 2016-WTE-7871-OE





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

Aeronautical Study No.  
2016-WTE-8128-OE  
Prior Study No.  
2014-WTE-5842-OE

Issued Date: 11/04/2016

Cindy Whitney  
Solas Energy Consulting  
430 North College Avenue, Suite 440  
Fort Collins, CO 80524

**\*\* 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 Wind Turbine 37
Location:	Hebron, ND
Latitude:	46-49-21.81N NAD 83
Longitude:	102-04-08.31W
Heights:	2464 feet site elevation (SE) 426 feet above ground level (AGL) 2890 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, 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 1, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration 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.

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.

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

If we can be of further assistance, please contact our office at (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-8128-OE.

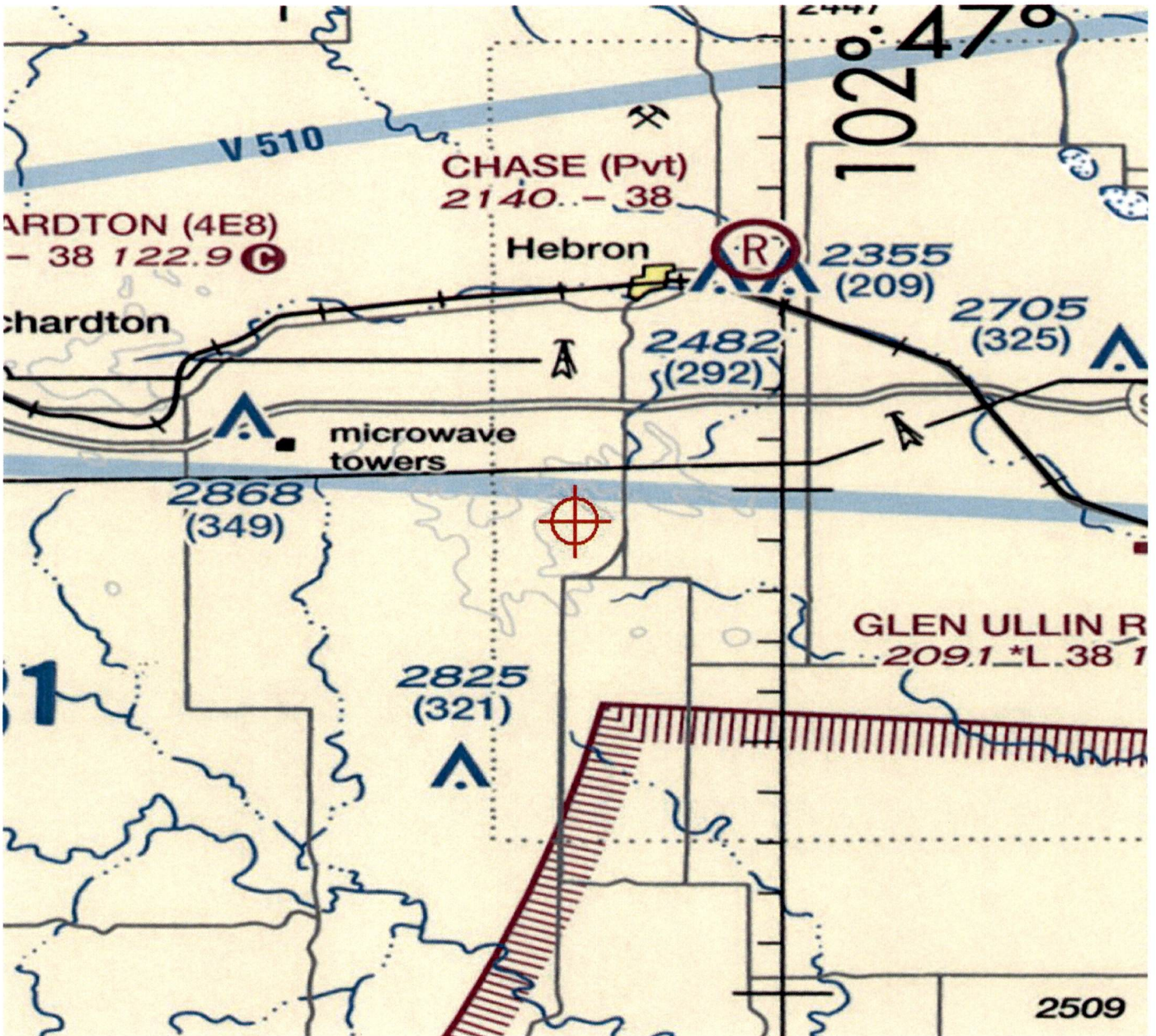
**Signature Control No: 306947282-309386856**

( DNE -WT )

Steve Phillips  
Specialist

Attachment(s)  
Map(s)

Sectional Map for ASN 2016-WTE-8128-OE





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

Aeronautical Study No.  
2016-WTE-8193-OE  
Prior Study No.  
2014-WTE-5866-OE

Issued Date: 11/04/2016

Cindy Whitney  
Solas Energy Consulting  
430 North College Avenue, Suite 440  
Fort Collins, CO 80524

**\*\* 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 Wind Turbine A08
Location:	Hebron, ND
Latitude:	46-49-22.00N NAD 83
Longitude:	102-01-45.74W
Heights:	2441 feet site elevation (SE) 426 feet above ground level (AGL) 2867 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, 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 1, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration requires separate notice to the FAA.

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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.

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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.

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

If we can be of further assistance, please contact our office at (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-8193-OE.

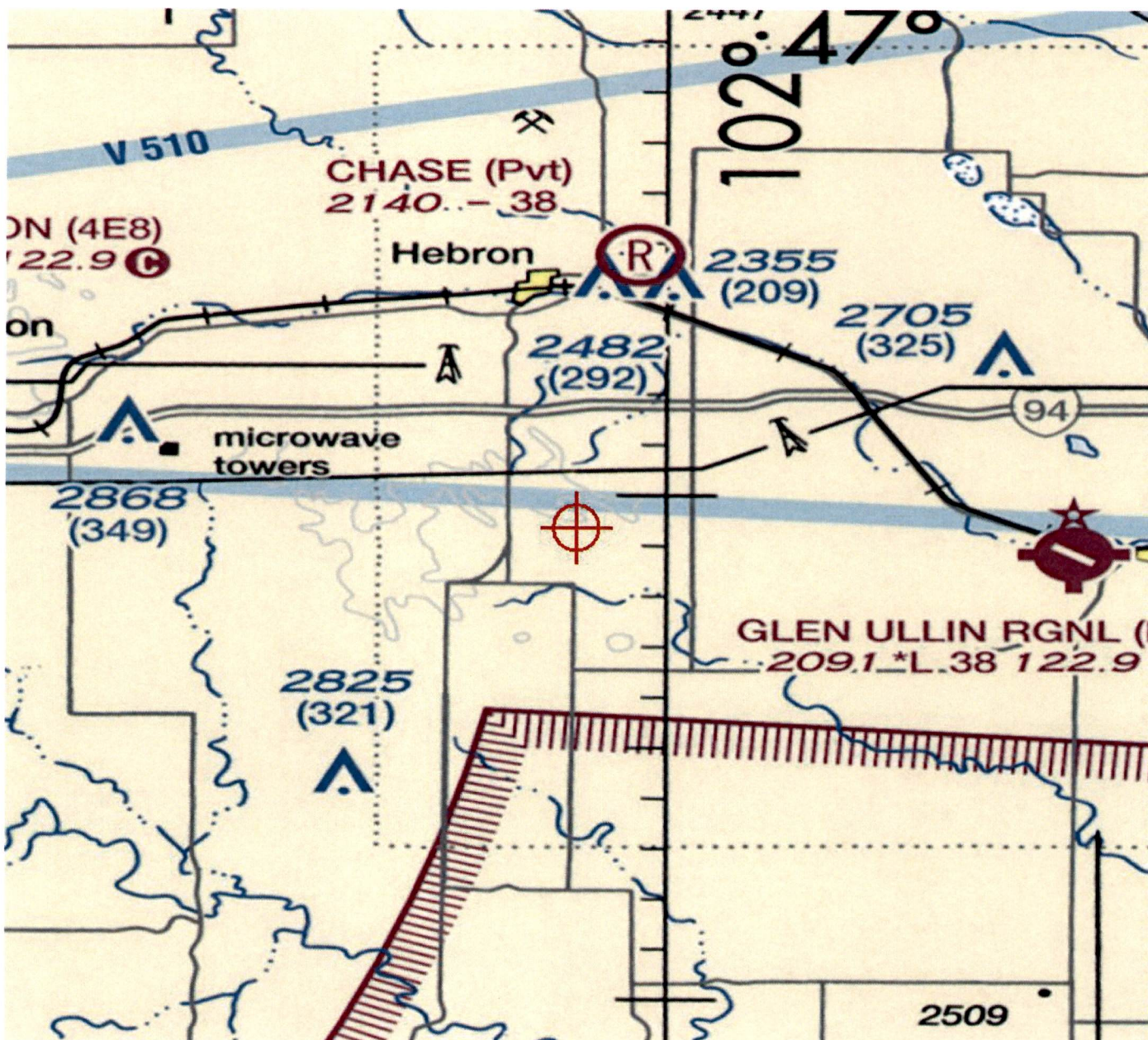
**Signature Control No: 307199822-309386854**

( DNE -WT )

Steve Phillips  
Specialist

Attachment(s)  
Map(s)

Sectional Map for ASN 2016-WTE-8193-OE





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

Aeronautical Study No.  
2016-WTE-8442-OE  
Prior Study No.  
2014-WTE-5857-OE

Issued Date: 11/04/2016

Cindy Whitney  
Solas Energy Consulting  
430 North College Avenue, Suite 440  
Fort Collins, CO 80524

**\*\* 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 Wind Turbine 52
Location:	Hebron, ND
Latitude:	46-49-40.70N NAD 83
Longitude:	102-00-04.11W
Heights:	2417 feet site elevation (SE) 426 feet above ground level (AGL) 2843 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, 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 1, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

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

If we can be of further assistance, please contact our office at (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-8442-OE.

**Signature Control No: 307507026-309386863**

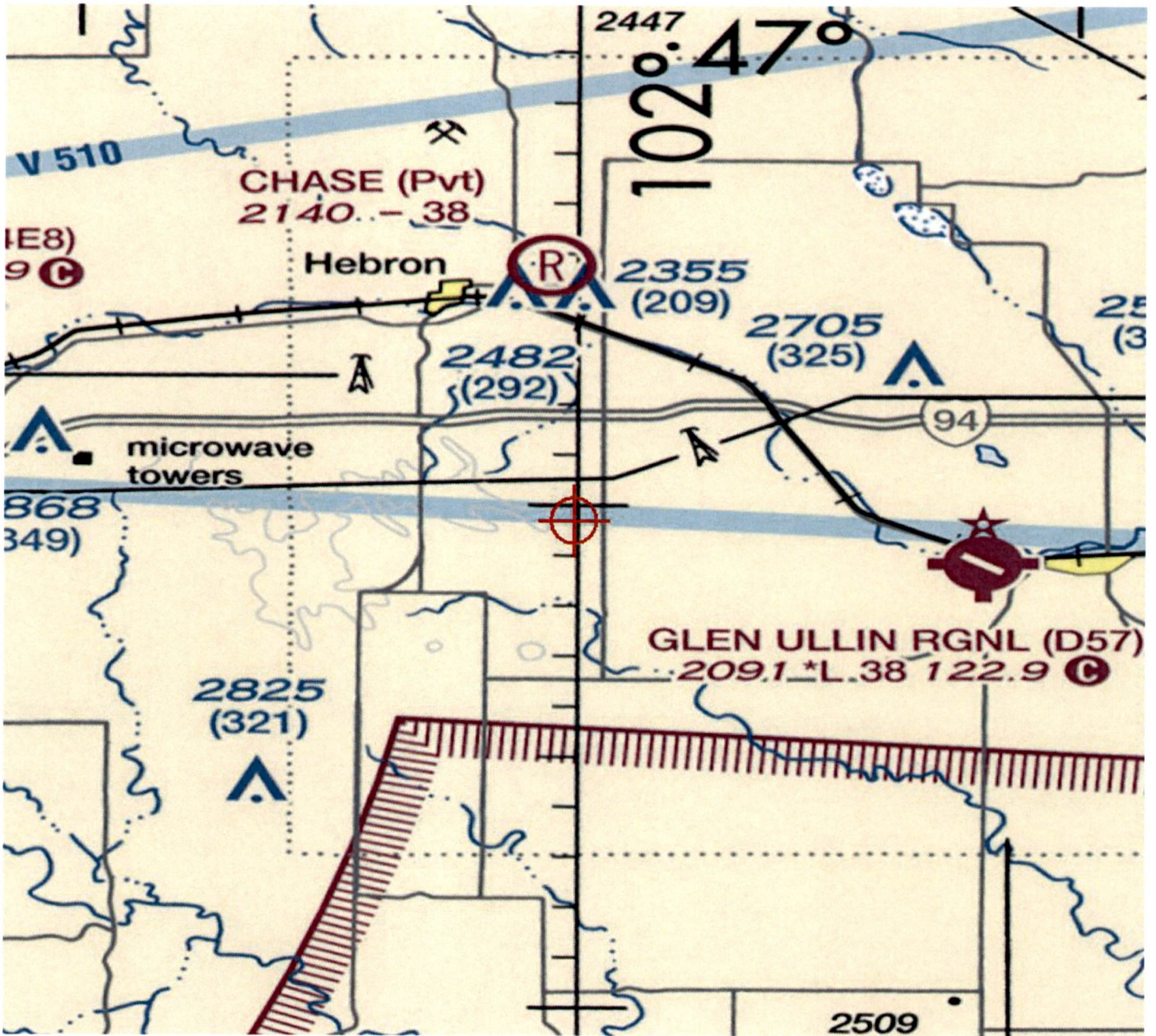
Steve Phillips  
Specialist

( DNE -WT )

Attachment(s)

Map(s)

Sectional Map for ASN 2016-WTE-8442-OE





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

Aeronautical Study No.  
2016-WTE-8444-OE  
Prior Study No.  
2014-WTE-5858-OE

Issued Date: 11/04/2016

Cindy Whitney  
Solas Energy Consulting  
430 North College Avenue, Suite 440  
Fort Collins, CO 80524

**\*\* 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 Wind Turbine 53
Location:	Hebron, ND
Latitude:	46-49-43.02N NAD 83
Longitude:	101-59-50.87W
Heights:	2437 feet site elevation (SE) 426 feet above ground level (AGL) 2863 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, 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 1, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

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

If we can be of further assistance, please contact our office at (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-WTE-8444-OE.

**Signature Control No: 307507044-309386855**

Steve Phillips  
Specialist

( DNE -WT )

Attachment(s)

Map(s)

Sectional Map for ASN 2016-WTE-8444-OE

