

THUNDER SPIRIT WIND ENERGY PROJECT (PU-11-601)

Final Permit Compliance Inspection Report 2020



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1 EXECUTIVE SUMMARY

The North Dakota Public Service Commission (Commission) retained Houston Engineering, Inc. (HEI) to complete a compliance and restoration inspection of the 150 MW Thunder Spirit Wind Energy Phase II Project (Thunder Spirit), a wind energy project located in Adams County, North Dakota, approximately 2 miles northeast of the city of Hettinger, ND (PSC Case No. PU-11-601). HEI conducted compliance inspection and reporting activities for Phase I of the project in 2015 and 2016. Since that time, construction was initiated for Phase II, and HEI was retained to complete the compliance and restoration inspection of this facility. The project ownership changed hands in 2017, and the project is now owned and operated by Montana Dakota Utilities (MDU).

Phase I of the project was constructed and completed in 2015 and included 43 turbines. A Notice of Intent (NOI) to begin construction of Phase II was received on October 27, 2016, with the intent to begin construction of 2 miles of access road. A NOI to resume construction of 16 turbines, access roads, and underground collection lines was received on May 7, 2018.

HEI reviewed all project documents to identify the aspects of the project that required compliance. Field inspection of the project was conducted December 23, 2020 to assess compliance of the siting and status of reclamation and restoration activities for the Project site.

Overall, the Project appears to have been constructed as designed (see Permit Compliance Summary Table, **Appendix A**), with minimal impacts to the surrounding natural or human environment. Compliance investigations observed the following:

- The siting of the Project features, including turbine structures, access roads and collection lines appears to have been constructed as permitted.
- sustainable long-term vegetation establishment was observed throughout the Project except for some erosion and sedimentation observed mainly adjacent to the constructed access roadways at the following areas:
 - erosion adjacent to access road for Turbine 1 (See Photos 22 – 23),
 - erosion and exposed fabric adjacent access road for Turbines 2, 3, 4 and 5 (See Photos 9 - 21),
 - erosion and sedimentation adjacent to access road for Turbines 6, 7, 8 and 9 (See Photos 27 - 35),
 - erosion adjacent to access road near Turbine 12 (See Photo 38),
 - tire rutting on public roadways (See Photos 1 – 8, 24 – 25).
- As-built documents have not yet been received by the Commission. MDU should submit As-built documentation to the Commission to be in compliance with this provision.
- As described in the application materials, Adams County permits for zoning and wind energy facility were issued but have not been provided to the Commission. MDU should submit these permits to be in compliance with this provision.

In conclusion, the Project is currently in compliance with all the provisions set forth by the Commission. The Commission may elect to require MDU to correct the above minor issues in order to reduce the possibility of damage to the facilities. The Commission may elect to conduct subsequent field verifications to ensure that the coverage of the bare earth areas, the repair of the erosion areas.



2 INTRODUCTION AND BACKGROUND

2.1 PROJECT BACKGROUND

Thunder Spirit, LLC filed with the North Dakota Public Service Commission (Commission) on June 4, 2013, an application for a Certificate of Site Compatibility for both Phase I and Phase II projects. Phase II includes a total of 16 turbines and associated gathering lines and access roadways for a wind facility in Adams County, ND (Project) (See **Exhibit A**). The Project was constructed and completed in 2018.

A Certificate of Site Compatibility No. 35 was issued to Thunder Spirit, LLC on October 9, 2013, and an Amended Certificate of Site Compatibility No. 30 was issued on August 14, 2014, to reflect site layout changes. The entire project, including Phases I and II, is reflected in a map provided in **Exhibit A**. Phase I was completed in 2015. This report pertains to Phase II.

2.2 PURPOSE OF THIS REPORT

The North Dakota Energy Conversion and Transmission Facility Act (North Dakota Century Code (NDCC) Chapter 49-22) authorizes the Commission to determine that the location, construction, and operation of jurisdictional energy conversion and transmission facilities will produce minimal adverse effects on the environment and the welfare of citizens of North Dakota. Post-construction inspections ensure that such projects are constructed in compliance with the siting laws (NDCC, Chapter 49-22) and rules (North Dakota Administrative Code (NDAC) Article 69-06) and the applicable Commission Findings of Fact, Conclusions of Law, and Order (Order). The Commission retained HEI to complete a permit compliance inspection of the Project.

2.3 METHODS OF INSPECTION

2.3.1 PROJECT COMPLIANCE ITEMS IDENTIFIED & REVIEW OF DOCUMENTATION

HEI identified project provisions in the Order and verified compliance through observations recorded during the on-site inspection, and from a desktop review of the online case file No. PU-11-601. The Project Findings of Fact, Conclusions of Law and Order (October 9, 2013, Docket No. 54), the Certification Relating to Order Provisions for Transmission Facility Siting (August 6, 2013, Docket No. 54) and a Supplemental Order and 1st Amended Certificate of Site Compatibility No. 35 (August 14, 2014, Docket No. 89) provides these provisions.

2.3.2 ON SITE INSPECTION

HEI conducted a compliance site visit on December 23, 2020 to investigate the siting criteria and the status of restoration and reclamation of Phase II of the Project. The current Project is for the construction of 16 turbines, and associated collection lines and access roadways. The Project was observed on site for siting compliance, and restoration and reclamation successes were checked, including areas where ground disturbance was completed. The location of the Project features, as approved by the Commission, was confirmed in the field. Areas where observable erosion issues, bare ground, soil compaction, debris, or other indications of remaining construction materials were checked. Close attention was also paid to waterbody crossing areas, wetland areas and Exclusion areas.



3 FINDINGS

The purpose of the final compliance inspection was to assess the siting compliance and reclamation success of the Phase II project. A compliance review, based on provisions set forth in the project, is summarized in the Compliance Review Table located in **Appendix A**.

3.1 SUMMARY OF FINAL SITE VISIT

The final site inspection was completed on December 23, 2020 by Carl Entzie, Engineer II, Houston Engineering, Inc. (HEI). Utilizing maps and the Project construction plans, provided as part of the application materials, HEI confirmed that the project was constructed as defined within the submitted Project plans and as permitted by the Certificate of Site Compatibility. HEI observed waterbody crossings, road crossings, and made observations of erosion, sedimentation, road settling, rutting and bare ground, and areas that were disturbed during project construction.

Photographs were taken through out the entire Project area. Photo locations are mapped in **Exhibit A** and representative photographs are included within **Appendix B**.

3.2 SITE INFORMATION

3.2.1 DESIGNATED LOCATIONS

Phase II of the Thunder Spirit Wind Project was permitted in 2015. A portion of access roadway for Turbines 1, 2, 3, 4 and 5 was constructed in 2016, with the remainder of Phase II completed in 2018. The Phase II Project map is located as **Exhibit A**.

3.2.2 SITING CRITERIA

HEI confirmed in the field that the structures have been constructed at the locations permitted under the Certificate of Site Compatibility. Siting criteria were analyzed in detail in the Application for the project. As noted in the Application and in accordance with NDAC 69-06-08-02, the project construction, operation, and maintenance included Prime Farmland as an Exclusion area, however the proposer indicated that up to 3 acres of Prime Farmland would be impacted (due to the footprint of the above-ground infrastructure of the project). The Commission concluded that this amount would result in a negligible impact to agricultural production. Additionally, there are several Avoidance areas within the Project area including cultural resource sites, woodland areas, and wetlands. Impacts to these resources were avoided.

3.2.3 LAND USE AND AGRICULTURAL IMPACTS

Agricultural is the predominant land use adjacent to the Project area. Impacts to agricultural lands associated with construction and operation of the Project were found to not result in significant impacts to agricultural production.

3.3 PROJECT DESIGN AND ENGINEERING

3.3.1 ENGINEERING DESIGN DRAWINGS

Engineering documents for Phase II were provided to the Commission. They are included in Docket No. 60 for the access road construction, and Docket No. 164 for the remainder of the Phase II project.



3.4 COMMISSION-REQUIRED DOCUMENTS

The following application materials and approval documents are related to the Project:

- The Application for a Certificate of Site Compatibility was submitted in June of 2013. (Docket No. 9),
- an Amendment to the Application for Certificate of Site Compatibility was submitted in August of 2013 (Docket No. 22),
- a Revised Amendment to the Application for Certificate of Site Compatibility was submitted in September of 2013 (Docket No. 37),
- the Commission issued Findings of Fact, Conclusions of Law, and Order (Order) granting Certificate of Site Compatibility No. 35 to Thunder Spirit on October 9, 2013 (Docket No. 54),
- a 2nd Amendment to the Application for Certificate of Site Compatibility was submitted in May of 2014 (Docket No. 62),
- a 1st Amended Certificate of Site Compatibility No. 35 (Docket No. 89) was issued to Thunder Spirit in August of 2014, which amended the approved plan as a result of turbine type changes and various landowner negotiations.

3.5 PERMITS AND APPROVALS FROM OTHER AGENCIES

Previous submittals indicated that Adams County permits were received for a Wind Facility Siting Permit and a Building Permit, but these permit documents were not received by the Commission. No additional information regarding other required permits was submitted to the Commission.

3.6 CULTURAL RESOURCES

3.6.1 CULTURAL SITE AVOIDANCE

Thunder Spirit conducted a Class I and Class II architectural Reconnaissance survey within the Project area. No significant archaeological, cultural, or historic sites were identified. North Dakota State Historical Society concurred with the conclusion of “No Significant Sites Affected” and “No Historic Properties Affected”.

3.6.2 REPORTING OF NEW DISCOVERIES

No new discoveries of cultural, archeological, or historical sites were reported to the Commission. Based on this information, it is concluded that no new sites were encountered during construction and operation of the Project.

3.7 NATURAL RESOURCES

Desktop and field surveys were conducted to inventory potential wildlife and habitat resources. This research and surveys included wetlands and waterbodies, rare, threatened, and endangered species, avian species (bat surveys, eagles, and raptor surveys) habitat surveys, and botanical resources. Additionally, environmental data collected included information on soils, land use, trees, saplings, and shrubs.

The following relevant agencies were contacted regarding the Project: US Fish and Wildlife Service, US Army Corps of Engineers, North Dakota (ND) Department of Transportation; ND State Historical Preservation Office; ND State Historical Society, ND State Water Commission; ND Game and Fish



Department; ND Geological Society, ND State Land Department; and ND Department of Health; ND Department of Agriculture, ND Aeronautics Commission, ND Indian Affairs Commission; ND Parks and Recreation; and Adams County Soil Conservation Service. None of the agencies objected to the Project.

3.7.1 WETLANDS, SURFACE WATER, AND FLOODPLAIN

Five (5) wetlands and three (3) waterbodies and were identified within the Project area. These wetlands and waterbodies are likely jurisdictional under Section 404 of the federal Clean Water Act (CWA). The project did not result in the permanent drainage, fill, or impact to any of these wetlands or waterbodies; therefore, no permit was required, and no mitigation was proposed.

3.7.2 RARE, THREATENED AND ENDANGERED SPECIES REPORTING

A survey of federal and state-listed threatened and endangered species was conducted prior to project construction. In addition, contact with the ND Game and Fish, the US Fish and Wildlife Service, and the ND Parks and Recreation was conducted to identify any known presence of threatened, and endangered species or critical habitats within the Project. Also, the federal Environmental Conservation Online System was consulted to identify any species known to occur within the Project area. Four (4) bird species were identified to have the potential to occur in the vicinity.

Numerous avian surveys were conducted within the project area prior to the completion of the project. Twenty-one sensitive species (per ND Species of Conservation Priority) were observed. Eight (8) species of raptors were observed, including one eagle nesting site. One (1) federal candidate species was observed (Sprague's pipit). No other federally listed species were identified. Based on the limited nesting and suitable habitat, it was determined that there was a low to moderate likelihood of the occurrence of bat species within the Project area.

Several mitigation efforts were proposed to limit the impacts to avian populations. Thunder Spirit imposed a two-mile buffer around the eagle nesting site, and a 0.5-mile buffer around the areas where grouse leks were identified. Thunder Spirit also completed a Bird and Bat Conservation Strategy (Docket 122) to minimize impacts to these species. A Wildlife Response Reporting System was also required to be implemented once construction was complete, to monitor any avian mortalities that are a result of the operation of the Project. Based on these mitigation factors, the Commission concluded that there were likely no significant impacts to avian species because of the Project.

Based on the various survey, review of applicable databases, and consultation with various agencies, and mitigation factors put in place, the Commission concluded that no impacts to rare, threatened, or endangered species would occur. Additionally, no individual species or nesting sites were identified during construction.

3.7.3 TREE AND SHRUB MITIGATION

Based on review of the information uploaded to the docket, no tree or shrub removals have occurred as a result of the Project. The Tree and Shrub Mitigation Specifications are included within the Order, found at PSC Docket No. 54.



3.8 SOUND AND FLICKER

Thunder Spirit conducted several studies to measure the potential impacts to sound and light of the Project on the surrounding landscape. An acoustic study was completed and concluded that the Project was compliant with Adams County Zoning Ordinances, PSC Avoidance Criteria for residences, and the EPA's guidelines on occupied residences. Additionally, HEI confirms that the Siting criteria for distance from occupied residences is compliant.

Thunder Spirit also conducted a shadow flicker study to measure the potential impacts of light to the Project area (within the Second Amendment to the Application for a Certificate of Site Compatibility, Docket No. 62). Based on the results of this study, the Commission concluded that the shadow flicker within the Project area will be minimal and was not expected to be a significant impact.

3.9 AIR TRAFFIC

The project was reviewed by the Federal Aviation Administration (FAA) to evaluate the Project for compliance with airspace regulations. The FAA issued a Determination of No Hazard for all turbine locations. In addition, the Project was reviewed by the US Air Force (USAF), who confirmed that no impacts would occur.

3.10 CONSTRUCTION, RECLAMATION & SOILS

Erosion and sedimentation controls, reclamation of roads, and reseeded of disturbed areas were observed throughout the Project area at the time of our inspection. Some erosion was observed near the access roadways throughout the Project area, as noted below and in the Photography section. The instances of erosion appear to be minor, and no corrective issues are recommended at this time, however HEI recommends that these areas be regularly checked during routine maintenance of the Project area, to make sure these minor erosion issues do not compound into greater problem areas. The restoration of disturbed areas and reseeded and revegetation was observed as part of this compliance inspection. It appears that construction, use of best management practices during construction, and revegetation strategies were successful.

3.10.1 REPAIRS

No damage to property was observed during the site inspections.

3.10.2 WASTE

The Project area was free of construction debris and equipment.

3.11 OPERATION

3.11.1 OPERATION AND MAINTENANCE

The site appeared to be operated and maintained as described in the Application.

3.11.2 SAFETY AND RECORD-KEEPING

No concerns were identified during the site inspection that would indicate the Project construction or operation was out of compliance with the Application or applicable safety regulations.



3.11.3 PUBLIC COMPLAINTS

No public complaints regarding the Project have been filed since construction has been completed and operation has begun.

3.11.4 PUBLIC SAFETY

Safety concerns regarding the public appear to be minimal.

4 CONCLUSIONS

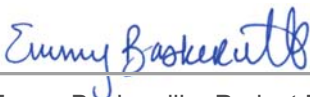
4.1 FINAL CONCLUSIONS

Overall, the Project appears to have been constructed and is operating as designed, with minimal impacts to the surrounding natural or human environment. The site compliance investigations observed the establishment of sustainable vegetation, except for some minor erosion and sedimentation issues throughout, primarily adjacent to the access roadways. All other observed Project locations were in good condition and no issues were observed. Please refer to **Exhibit A** for the photo location map, and **Appendix B** for photographs. No corrective actions are recommended at this time.

In conclusion, the Project is currently in compliance with all the provisions set forth by the Commission. The Commission may elect to require Montana Dakota Utilities to correct the minor erosion issues to reduce the possibility of further erodibility and degradation of conditions at those sites.

5 SIGNATURES

The services provided by HEI scientists and engineers for this Project have been conducted in a manner consistent with the degree of care and technical skill appropriately exercised by professionals currently practicing in this area under similar time and budget constraints. Recommendations and findings contained in this report represent our professional judgement and are based upon available information, our compliance inspections, and technically accepted practices. Other than this, no warranty is implied or expressed.



Emmy Baskerville, Project Manager

12/31/2020

Date



6 REFERENCES

North Dakota Public Service Commission (Commission) 2020. Online Case Search. Available from: <http://psc.nd.gov/public/casesearch/>. Accessed November and December 2020.



7 EXHIBIT A: SITE MAP AND PHOTO LOCATION MAP

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Designed: JAC
 Checked: JAC
 Drawn: JAC
 Allocated Drawings:
 0 05/17/18 IFC CIVIL PLANS
 1 05/17/18 IFC CIVIL PLANS
 1 05/17/18 DRAINAGE CROSSING REVISIONS



Prepared for:
 12201 Milwaukee Drive, Suite #500
 Minneapolis, MN 55425

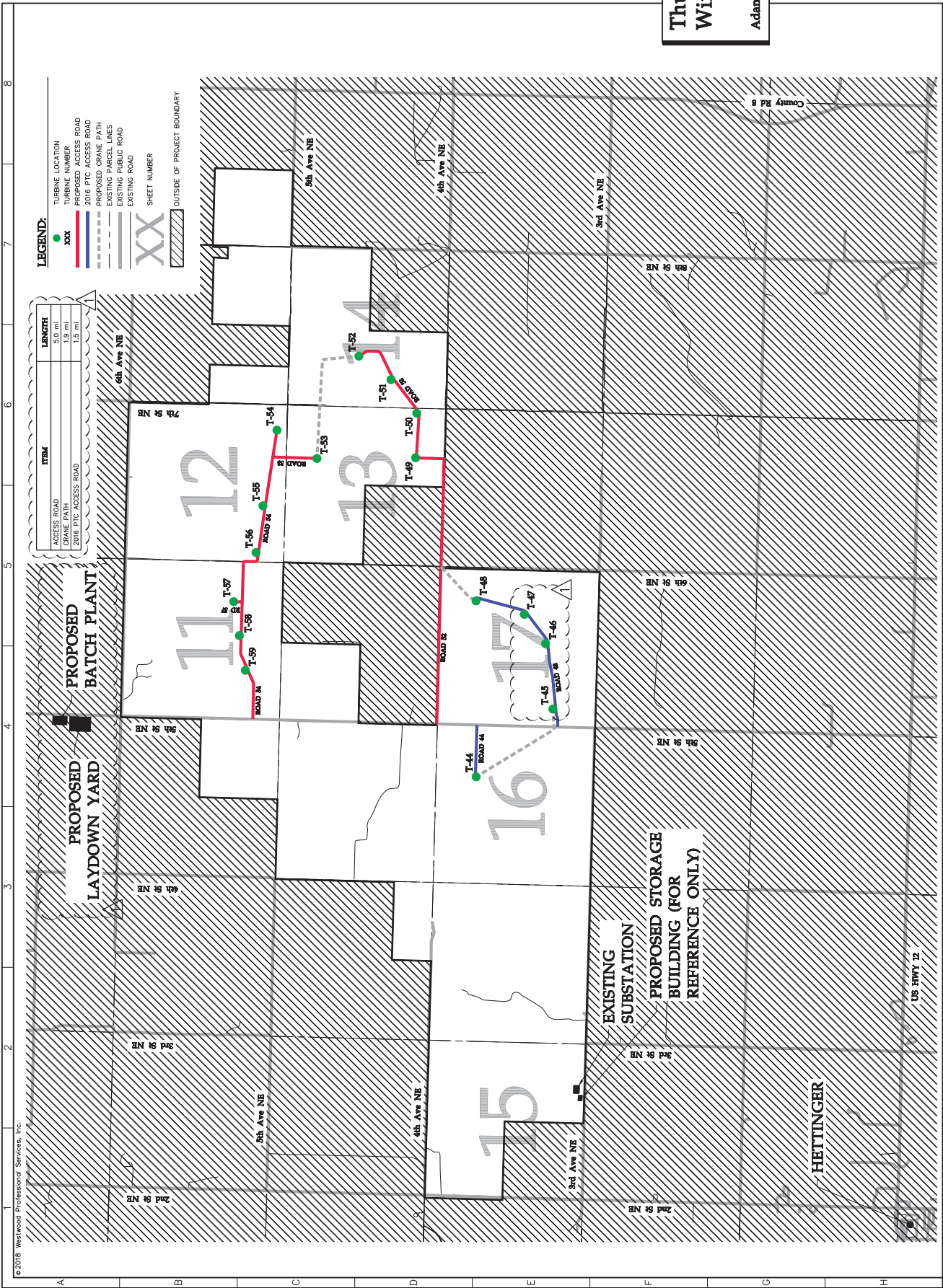
**Thunder Spirit II
 Wind Project**
 Adams County, North Dakota

Overall Site Plan

Issued for Construction

Date: 5/16/18
 Sheet: 2 OF 23

004466002.dwg



LEGEND:

ITEM	LENGTH
ACCESS ROAD	5.0 mi
CRANE PATH	1.9 mi
2016 PTC ACCESS ROAD	1.5 mi

- TURBINE LOCATION
- TURBINE NUMBER
- PROPOSED ACCESS ROAD
- 2016 PTC ACCESS ROAD
- PROPOSED CRANE PATH
- EXISTING PARCEL LINES
- EXISTING PUBLIC ROAD
- EXISTING ROAD
- SHEET NUMBER
- XX
- OUTSIDE OF PROJECT BOUNDARY

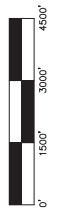
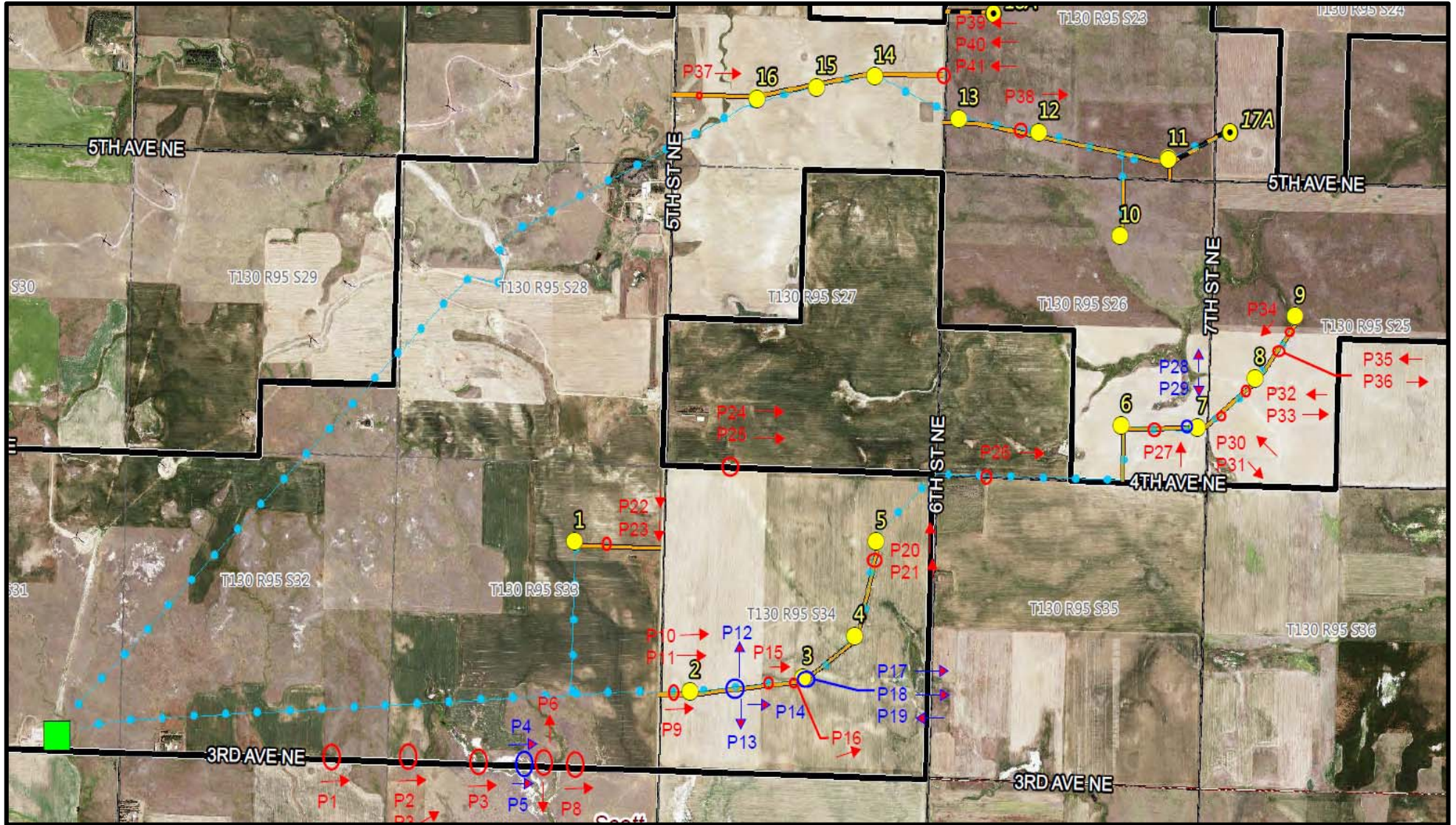


Exhibit A: Photo Location Map (Thunder Spirit Phase II, PU 11-601)



8 APPENDIX A: COMPLIANCE REVIEW SUMMARY

The following provisions are found in PU-11-601, Case Search at North Dakota's Public Service Commission website: <https://www.psc.nd.gov/public/casesearch/index.php> (see Docket 54, Findings of Fact, Conclusions of Law and Order ([September 04, 2019])).

Permit Conditions/Order Provisions	Compliance	Verification and Discussion
Certification Relating to Order Provisions, ¶102 “...company agrees to hold a preconstruction conference call prior to commencement of any construction...”	Yes	Pre-construction call was held on October 23, 2013.
Certification Relating to Order Provisions, 03¶1 “...shall obtain all other necessary licenses and permits, and shall provide copies of all licenses and permits to the Commission prior to construction activity.”	No	The Commission has not received copies of the Adams County Zoning and Wind Energy permits, as referenced in the original application.
Certification Relating to Order Provisions, ¶105 “...inform the Commission and the Commission’s third-party construction inspector of its intent to start construction on the energy facility.”	Yes	Notice of Intent was received for both instances of construction initiation.
Certification Relating to Order Provisions, ¶10 “...report promptly to the Commission the presence in or near the approved site of any critical habitat, threatenend species, endangered species, bald eagles or golden eagles...”	Yes	No reports were submitted to the Commission indicating the findings of critical habitat, threatenend or endangered species, bald eagles or golden eagles or nesting sites.
Certification Relating to Order Provisions, ¶12 “...if any cultural resource, paleontological site, archaeological site, historical site, or grave site is discovered during construction, it must be marked, preserved, and protected from further disturbances until a professional examination can be made by the State Historical Society, a report of examination is filed and clearance is given by the Commission.	Yes	No reports were submitted to the Commission indicating the identification of new cultural, paleontological, archaeological, historical or grave sites.
Certification Relating to Order Provisions, ¶13 “...all buried facility crossing of graded roads shall be bored unless the responsible governing agency specifically permits open cut of road.”	Yes	No major roadway disturbances were observed at areas where buried lines were placed.

Permit Conditions/Order Provisions	Compliance	Verification and Discussion
<p>Certification Relating to Order Provisions, ¶14 “...all pre-existing township and county roads...used during construction must be repaired or restored to the condition that is equal to or better than the condition prior to the construction of the facility...”</p>	<p>Unknown</p>	<p>Some roadways appeared to be rutted (see Photos), soft and/or potholed. The original condition of these roadways is not known by the Commission, so no conclusion can be made at this time whether the problem areas are the result of construction activities, or normal road use .</p>
<p>Certification Relating to Order Provisions ¶16 “...at least 12 inches of topsoil over and along trench areas, roadways, tower locations, and locations of associated facilities shall be stripped and shall be segregated from the subsoil...”</p>	<p>Yes</p>	<p>There were no areas observed where the absence of topsoil was noted, and revegetation efforts appeared to be successful in disturbed areas.</p>
<p>Certification Relating to Order Provisions ¶17 “...bury all underground collection and feeder lines to a depth of at least 48 inches to the top of the lines.”</p>	<p>Unknown</p>	<p>As-built documentation indicating depth of collector and feeder lines was not submitted to the Commission.</p>
<p>Certification Relating to Order Provisions ¶21 “...comply with the Tree and Shrub Mitigation Specifications...”</p>	<p>Yes</p>	<p>Based on information supplied to the Commission, no trees and shrubs were removed as part of the Project, therefore no mitigation was implemented.</p>
<p>Certification Relating to Order Provisions ¶26 “...shall remove all waste that is a product of construction and operation, restoration, and maintenance of the site...”</p>	<p>Yes</p>	<p>No construction debris was observed throughout the Project area.</p>
<p>Certification Relating to Order Provisions ¶27 “...restore the area affected by the activities to as near as is practicable to the condition as it existed...”</p>	<p>Yes</p>	<p>The restoration of disturbed areas, roadways, grade, and other landscape features appear to have been restored to the pre-construction condition, where applicable.</p>
<p>Certification Relating to Order Provisions, ¶30 “...shall advise the Commission of any extraordinary events which take place at the site...including injuries to any person, death of any threatened or endangered species, tower collapse, turbine failure, within five business days of such event.”</p>	<p>Yes</p>	<p>Based on information supplied to the Commission, no extraordinary events occurred at the Project site.</p>
<p>Certification Relating to Order Provisions ¶31 “...shall advise the Commission of the discovery of a large number of dead birds or bats on the site within five business days...”</p>	<p>Yes</p>	<p>Based on information supplied to the Commission, no discovery of a large number of dead birds or bats has occurred.</p>

Permit Conditions/Order Provisions	Compliance	Verification and Discussion
Certification Relating to Order Provisions, ¶33 "...provide the Commission with engineering design drawings showing surveyed structure and collection substation locations prior to Construction."	Yes	Engineering design drawing documents were submitted to the Commission.
Certification Relating to Order Provisions ¶35 "...provide the Commission with both an electronic and paper copy of the...as-built..."	No	No as-built documentation was found recorded to the online Docket.

9 APPENDIX B: FINAL REPORT PHOTOGRAPHY



Photo 1: Section line (3rd Avenue NE) roadway rutting, facing east.



Photo 2: Section line (3rd Avenue NE) roadway rutting, facing east.



Photo 3: Section line (3rd Avenue NE) roadway rutting, facing east.



Photo 4: Section line (3rd Avenue NE) roadway rutting, facing east.



Photo 5: Section line (3rd Avenue NE) roadway rutting, facing east.



Photo 6: 3rd Avenue NE stream crossing culverts, facing north.





Photo 7: 3rd Avenue NE crossing culverts and erosion, facing south.



Photo 8: Section line (3rd Avenue NE) roadway rutting, facing east.



Photo 9: Turbine 2, 3, 4, 5 access road, facing east.



Photo 10: Minor erosion on Turbine 2, 3, 4, 5 access road, facing east.



Photo 11: 10: Minor erosion on Turbine 2, 3, 4, 5 access road, facing east.

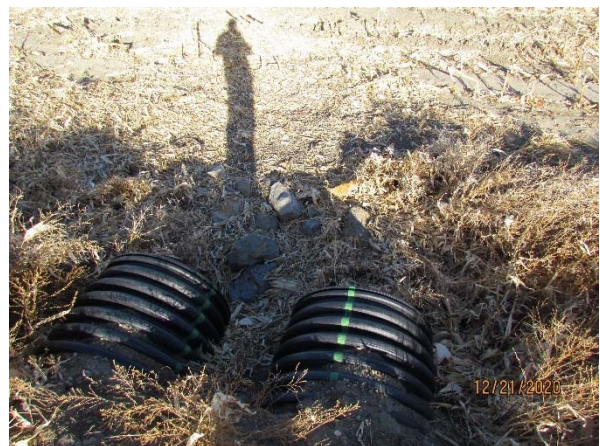


Photo 12: Waterbody crossing and minor erosion on Turbine 2, 3, 4, 5 access road, facing north.



Photo 13: Waterbody crossing and minor erosion on Turbine 2, 3, 4, 5 access road, facing south.



Photo 14: Erosion on Turbine 2, 3, 4, 5 access road, facing east.



Photo 15: Erosion on Turbine 2, 3, 4, 5 access road, facing east.



Photo 16: Erosion near Turbine 3, facing east.



Photo 17: Erosion near Turbine 3, north side of access road, facing east.



Photo 18: Erosion near Turbine 3, south side of access road facing east.



Photo 19: Erosion near Turbine 3, south side of access road, facing west.



Photo 20: Exposed fabric near Turbine 5 at access road, facing north.



Photo 21: Tire rutting near Turbine 5.



Photo 22: Settling of access road near Turbine 1, facing south.



Photo 23: Settling of access road near Turbine 1, facing south.



Photo 24: Minor erosion on North side of access road, facing east.



Photo 25: Minor erosion on North side of access road, facing east



Photo 26: Settling / pothole on north side of access road, facing east.



Photo 27: Access road (Turbine 6, 7, 8, 9) culvert, minor erosion and sedimentation.



Photo 28: 7th Street NE (near Turbine 6, 7, 8, 9 access road) culvert, minor erosion and sedimentation at waterbody crossing, facing north.



Photo 29: 7th Street NE (near Turbine 6, 7, 8, 9 access road) culvert, minor erosion and sedimentation (south)



Photo 30: Access road (Turbine 6, 7, 8, 9) culvert, minor erosion and sedimentation, facing northwest.



Photo 31: Access road (Turbine 6, 7, 8, 9) culvert, minor erosion and sedimentation, facing southeast.



Photo 32: Access road (Turbine 6, 7, 8, 9) near Turbine 8, access road erosion, facing west.



Photo 33: Access road erosion near Turbine 8, access road, facing east.



Photo 34: Minor erosion at access road near Turbine 9, facing southwest.



Photo 35: Access road near Turbine 9, erosion and sedimentation at culvert crossing, facing west.



Photo 36: Access road near Turbine 9, erosion and sedimentation at culvert crossing, facing east.



Photo 37: Turbine 14-16 access road.



Photo 38: Minor erosion on access road near Turbine 12, facing east.



Photo 39: Turbines 14-16, no roadway access due to private property and gate.



Photo 40: Turbines 14-16 private property and gate.



Photo 41: Turbines 14-16 private property signage and gate.