

**Class I Literature Review and
Class II Architectural Reconnaissance Inventory
Abstract and SHSND/SHPO Letter**

Contract Publication Series 21-389

**CLASS I LITERATURE REVIEW AND CLASS II
ARCHITECTURAL RECONNAISSANCE INVENTORY FOR
THE PROPOSED BADGER WIND PROJECT IN
LOGAN AND MCINTOSH COUNTIES, NORTH DAKOTA**



by
John Dickerson, MA, and Robert Ball, MHP

Prepared for

DNV Energy USA, Inc.



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Kentucky | West Virginia | Wyoming
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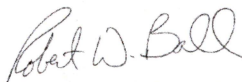
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Robert W. Ball, MHP
Principal Investigator

March 2, 2022

Lead Agency: State Historical Society of North Dakota
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ABSTRACT

In September and October, 2021, Cultural Resource Analysts, Inc., personnel completed a Class I Literature Review and Class II Architectural Reconnaissance Inventory for the proposed Badger Wind Project in Logan and McIntosh Counties, North Dakota. The survey was conducted at the request of Kimberly Peters of DNV Energy USA, Inc., on behalf of Orsted.

The proposed Badger Wind Project includes two alternative layouts. Layout Options 1 and 2 both propose to construct wind turbines primarily within agricultural fields located to the northwest, northeast, and southwest of the town of Wishek, with some variation in turbine locations and concentrations. Project Layout Option 1 comprises 94 turbine locations in Logan and McIntosh Counties; this includes up to 74 turbine locations that would be built to achieve full nameplate capacity and 20 alternate turbine locations. Layout Option 1 proposes its densest concentration of turbines northwest and southwest of Wishek. This layout option also proposes the construction of two laydown areas, a marshalling yard, and a batch plant near the intersection of 37th Avenue SE and 80th Street SE in McIntosh County. Project Layout Option 2 comprises 79 turbine locations in Logan and McIntosh Counties; this includes up to 74 locations that would be built to achieve full nameplate capacity and 5 alternate turbine locations. The greatest concentration of wind turbines proposed for Layout Option 2 are situated northwest of Wishek and would include the construction of the same laydown yards, marshalling area, and batch plant described above for Project Layout Option 1. Following the completion of both the architectural reconnaissance inventory and the subsequent report, it was determined that Layout Option 2 was the only plan under consideration and that Layout Option 1 was no longer being considered.

The purpose of the study was to identify historic architectural resources within the area of potential effects for the proposed Project and to evaluate each identified resource's eligibility for inclusion in the National Register of Historic Places. Based on the North Dakota State Historic Preservation Office Guidelines, the area of potential effects for wind turbines 400 feet or higher is defined as parcels within the proposed locations of the wind turbines, and a two-mile buffer extending outwards from each proposed turbine location. The area of potential effects for the proposed Project took into consideration both Layout Options 1 and 2.

Prior to initiating fieldwork, personnel initiated a review of records maintained by the North Dakota State Historic Preservation Office, to determine if previously documented architectural resources 45 years of age or older were located in the area of potential effects for the proposed Project. This review indicated that 23 aboveground cultural resources have been previously documented within the area of potential effects (32LO00026 [Site 41], 32LO00027 [Site 577], 32LO00033 [Site 574], 32LO00138 [Site 53], 32LO00139, 32MT00027 [Site 572], 32MT00028 [Site 123], 32MT00039 [Site 458], 32MT00043, 32MT00044 [Site 38], 32MT00055, 32MT00071 [Site 372], 32MT00072 [Site 344], 32MT00085 [Site 50], 32MT00087 [Site 331], 32MT00100, 32MT00282 [Site 111], 32MT00391, 32MT00425 [Site 360], 32MTX00021 [Site 99] 32MTX00022 [Site 89], 32MTX00063 [Site 235], 32MTX00020 [Site 86]). The review indicated that of the 23 historic above-ground resources identified within the area of potential effects, two (32MT00087 [Site 331] and 32MT00425 [Site 360]) were previously recommended eligible for inclusion in the National Register of Historic Places. The remaining 21 previously recorded architectural resources have either not been fully evaluated for listing in the National Register of Historic Places, or were previously determined not eligible for inclusion.

During the field survey, Cultural Resource Analysts, Inc., personnel identified a total of 578 aboveground resources (Sites 1–578) within the area of potential effects, 18 of which (Sites 32LO00026 [Site 41], 32LO00027 [Site 577], 32LO00033 [Site 574], 32LO00138 [Site 53], 32MT00027 [Site 572], 32MT00028 [Site 123], 32MT00039 [Site 458], 32MT00044 [Site 38], 32MT00071 [Site 372], 32MT00072 [Site 344], 32MT00085 [Site 50], 32MT00087 [Site 311], 32MT00282 [Site 111], 32MT00425 [Site 360], 32MTX00021 [Site 99], 32MTX00022 [Site 89], 32MTX00063 [Site 235], 32MTX00020 [Site 86]) have been previously surveyed. Of the 23 cultural resources identified during

the records review, five (32LO00139, 32MT00043, 32MT00055, 32MT00100, and 32MT00391) were determined to no longer be extant. In addition, the primary historic resource at 32MT00087 was determined to have been razed between 2010 and 2012. However, previously recorded historic architectural features associated with the site remain and were reinvestigated as part of the current Class II Architectural Reconnaissance Inventory. Cultural Resource Analysts, Inc., recommends that Sites 1–82, 84–91, 93–330, 332–359, 361–393, 395–551, 553–573, and 575–577 are not eligible for listing in the National Register of Historic Places under Criterion A, B, or C. Site 578 is recommended as not individually eligible for listing in the National Register of Historic Places under Criterion A, B, or C. However, Site 578 was determined to be a contributing resource to Site 574 under Criterion A. Cultural Resource Analysts, Inc., further recommends an undetermined status for Sites 83 and 92, as they were either not accessible or not visible in the field and could not be properly evaluated for National Register eligibility; if later determined eligible for listing in the National Register of Historic Places, the proposed project will not result in any adverse direct or indirect effects to those sites because of existing vegetative buffers and distances from the proposed Project. Cultural Resource Analysts, Inc. personnel determined that 13 sites (Sites 1, 4, 21, 70, 115, 232, 311, 331, 360, 394, 397, 552, and 574) warranted a detailed evaluation in order to determine each site’s eligibility for listing in the National Register of Historic Places. After further examination, Cultural Resource Analysts, Inc. further recommends Sites 1, 4, 21, 70, 115, 232, 311, and 397 are not eligible for listing in the National Register of Historic Places under Criterion A, B, or C.

In addition, Cultural Resource Analysts, Inc., recommends that five resources, Site 331 (32MT00087), Site 360 (32MT00425), Site 394 (32MT00435), Site 552 (32MT00437), and Site 574 (32LO00033) are eligible for listing in the National Register of Historic Places. Site 331 is recommended eligible under Criteria A and C for its association with the development of Wishek during the first half of the twentieth century. Additionally, Site 331 is an excellent example of the use of the elliptical bottom form in McIntosh County. Site 360 is recommended eligible under Criteria A and C for its association with the Works Projects Administration during the Great Depression, as well as the social development of Wishek throughout much of the twentieth century. Furthermore, Site 360 is an excellent example of the use of Art Morderne style architecture in the design of a Works Projects Administration building in McIntosh County. Site 394 is recommended eligible under Criterion C as an excellent example of mid-twentieth-century Contemporary style architecture in McIntosh County. Site 552 is recommended eligible under Criterion A for its association with the Works Projects Administration and the development of Wishek throughout much of the twentieth-century. Site 574 is recommended eligible under Criterion A for its association with the development of Logan and McIntosh Counties in terms of the railroad industry in the late nineteenth and first half of the twentieth century. As a result of the loss of several resources within downtown Wishek, as well as infill and extensive alterations to many of the remaining buildings, no historic districts are present within the town of Wishek. Therefore, Cultural Resource Analysts, Inc., recommends that five architectural resources (Sites 331, 360, 394, 552, and 574) are eligible for listing in the National Register of Historic Places.

Neither Layout Options 1 or 2 for the proposed Badger Wind Project will directly impact the resources recommended as eligible for listing in the National Register of Historic Places. Wind turbines from the Badger Wind Project, for both Layout Options 1 and 2, will likely be visible in the distance from the resources recommended eligible for listing in the National Register of Historic Places. However, the visual impact of the wind turbines will not intrude upon their immediate setting or diminish any qualities that make them eligible. The qualities of the properties that warrants their listing in the National Register of Historic Places will not be diminished, thus Cultural Resource Analysts, Inc. recommends a finding of No Adverse Effect for Layout Options 1 and 2 of the proposed Badger Wind Project. As was indicated above, following the completion of the architectural reconnaissance inventory and associated report, Layout Option 2 is now the only layout option being considered for the Badger Wind Project.



March 24, 2022

Robert Ball
Cultural Resource Analysts, Inc.
151 Walton Avenue
Lexington, KY 40508

ND SHPO Ref.: 22-0020 Badger Wind in portions of 49 sections in Logan and Mountrail Counties, North Dakota

Dear Mr. Ball,

We reviewed the report for ND SHPO Ref: 22-0020 Badger Wind in portions of 49 sections in Logan and Mountrail Counties, titled "Class I Literature Review and Class II Architectural Reconnaissance Inventory for the Proposed Badger Wind Project in Logan and McIntosh Counties, North Dakota" and find this Cultural Resource Analysts, Inc. report by John Dickerson and Robert Ball acceptable. We will add it to our Manuscript Collection.

Thank you for the opportunity to review this report. Please be advised that acceptance of this report does not constitute concurrence with the determinations therein. If you have any questions, please contact either Andrew Clark, Chief Archeologist at (701) 328-3574 or andrewclark@nd.gov or Lorna Meidinger, Historic Preservation Specialist at (701) 328-2089 or lbmeidinger@nd.gov.

Sincerely,

for William D. Peterson PhD
State Historic Preservation Officer
(North Dakota)