

January 10, 2022

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Adam Renfandt
North Dakota Public Service Commission
600 East Boulevard, Department 408
Bismarck, ND 58505-0480

**NORTH DAKOTA
PUBLIC SERVICE COMMISSION**

Re: Construction inspection services for the Montana-Dakota Utilities Co Mandan Reroute Project

Dear Mr. Renfandt:

Barr Engineering Co. is pleased to submit our proposal to provide construction inspection services for a 1.5-mile long 230 kV transmission line. This transmission is known as the Montana-Dakota Utilities Co. 230 kV Transmission Line – Morton County project in case no. PU-21-151 located in Morton County, North Dakota, near the Heskett Station north of Mandan.

The North Dakota Century Code (chapter 49-22) authorizes the North Dakota Public Service Commission (PSC) to determine that location, construction, and operation of energy conversion facilities will produce minimal adverse effects on the environment and welfare of North Dakota citizens. The construction and reclamation inspections ensure that projects are in compliance with the siting laws and rules, and are applicable to the PSC findings of fact, conclusions of law, and order.

Scope of work

Barr will complete the following construction inspection services:

Task 1: Topsoil removal inspection

Barr will inspect topsoil stripping along the construction right of way to verify that topsoil is properly removed and kept segregated from subsoil until replacement occurs. We will provide personnel at each construction spread at the start of topsoil and subsoil removal and segregation activities. We will also determine whether equipment operators have demonstrated proficiency concerning topsoil and subsoil removal and segregation in compliance with applicable PSC orders.

Task 2: Construction inspection

Barr will complete a construction inspection of the project and all construction extents at approximately 75% construction completion to confirm compliance with applicable construction and restoration conditions, siting laws and rules, and applicable PSC orders. We will observe construction activities to determine compliance with required depth of cover, observe ongoing topsoil segregation during construction, and determine compliance with all other PSC orders. Construction reports will include locations where checks were performed, color photos of construction activities, and identification of areas of concern and recommendations for resolution of issues.

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Letter regarding scope of construction inspection services
Barr
Andrew Unbehaun, Project Manager

Task 3: As-built construction inspection

After completing topsoil replacement and grading as well as fertilization and seeding of the entire project area, Barr will conduct an as-built inspection of the project. During the reclamation and revegetation inspection, we will identify areas of concern that will need to be addressed after one full growing season. We will also determine whether the pipelines have been constructed in compliance with the siting laws and rules and applicable PSC orders.

Task 4: Reclamation and revegetation inspection

Barr will complete a post-construction reclamation and revegetation inspection of the project and all construction extents to confirm compliance with relevant construction and restoration conditions, siting laws and rules, and applicable PSC orders. A follow-up inspection of the areas of concern identified in the as-built inspection report will be included. Barr will determine whether the area affected by construction activities has been restored as near as practicable to pre-construction conditions, including the reestablishment of desired plant species where applicable.

Assumptions

Barr made a number of assumptions regarding quantity and duration of topsoil removal and construction inspections. These assumptions are listed below and are subject to our negotiated final proposal.

- We assume two hours of inspection for one inspector for topsoil removal with one mobilization.
- We assume one construction inspection with one mobilization. Additional inspections can be performed at the PSC's direction for a price of \$2,900 per additional inspection.
- Barr assumes a construction duration of two months based on information provided in the consolidated application and waiver request.
- Our current price is based on available information on the docket as of the date of this proposal. Additional PSC orders requiring more inspections or additional reporting will need to be discussed with Barr and may require a contract amendment for additional services.
- Barr will complete the reclamation and revegetation inspection after one full growing season, from the anniversary date of the completion of fertilization and seeding.
- Barr will complete the as-built inspection during one mobilization.
- Barr will complete the reclamation inspection during one mobilization.
- The PSC will provide Barr with the tree and shrub mitigation plan for the desired species planted for final restoration.
- Our work will be limited to what can be visually observed from the ground surface at the time of the inspections.

Professional personnel

The Barr team is anchored by Jason Westbrook, who brings more than two decades of project leadership experience. As principal in charge, he will oversee our technical team to enable the delivery of quality work. Our project manager, Andrew Unbehaun, will manage project work and serve as secondary inspector, while Monty Johnson will serve as lead inspector. The profiles below summarize our team's qualifications and experience.



Jason Westbrook, PE • VP, Senior Civil Engineer • MBA; BS, Civil Engineering
Role: *principal in charge*

Jason has 23 years of experience in civil and water resources engineering. He specializes in project management, large-project planning, civil engineering design and construction, and hydrologic and hydraulic modeling for projects focused on flood risk management, earthen embankments, and pipelines.



Andrew Unbehaun • Mechanical Engineer • BS, Mechanical Engineering
Role: *project manager, lead inspector*

Andrew has six years of industrial construction management experience. At Barr, he provides project management, piping system design, construction management and support, as-built documentation, and technical reporting on projects involving pipelines, well pad connections, natural gas processing, and refining. Andrew has also conducted quality control inspections and is involved in quality assurance documentation.

Deliverables

Barr's deliverables consist of four written reports:

1. Topsoil Removal Inspection Report,
2. Construction Inspection Report,
3. As-Built Inspection Report
4. Reclamation and Revegetation Report.

Each report shall include the following:

- Location-referenced color photographs of construction activities
- A map identifying locations where photographs were taken and locations where compliance checks were performed
- An executive summary of the inspection findings concerning issues requiring resolution, areas of concern, and recommendations for resolution of issues
- A determination of whether the transmission facility has been constructed in compliance with the siting laws, siting rules, and applicable PSC orders
- A determination of whether the area affected by construction activities has been restored as near as practicable to the pre-construction conditions, including reestablishment of desired plant species where applicable

Schedule and budget

Barr proposes to complete the scope of work identified above for a cost of **\$7,300**. A breakdown of the costs for each task is provided below.

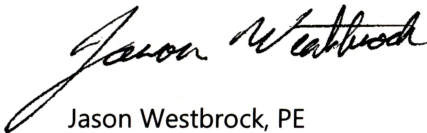
MDU 230kV inspection services

Topsoil removal inspection	\$1,910
Construction inspection	\$1,910
As-built inspection	\$1,910
Reclamation and revegetation inspection	\$1,570
Total	\$7,300

Barr is prepared to begin work upon approval from the PSC. We propose to complete the tasks on a time-and-materials basis not to exceed \$7,300 without prior approval. Barr will deliver the topsoil removal, construction, and reclamation and revegetation inspection reports within 15 days after initial inspection, and the as-built construction inspection report within 30 days after initial inspection.

We appreciate the opportunity to offer our services for this project. If you have questions or would like additional information, please call Jason at 701-255-5472 or Andrew at 701-221-5402.

Sincerely,



Jason Westbrook, PE
Vice President



Andrew Unbehaun
Project Manager