



**MERRICOURT SUBSTATION**  
**EPCS/ECI MONTHLY PROJECT STATUS REPORT**

**DATE July 09, 2020**

**1. SAFETY**

- a. Safety orientation are given to all persons working on site.
- b. Daily safety tailboard meetings are being held daily at show up (Substation).
  - i. Keep eye contact with the operator if approaching equipment.
  - ii. Keep non-construction personal off the site unless accompanied with a qualified person.
  - iii. Guide trucks.
- c. There have been no recordable incidents this month.

<b>Location: McIntosh County, ND</b>	
<b>Major "EPC" Contractors: Renew</b>	
<b>Turbine Supplier: NA</b>	
<b>EPCS Monthly Man Hours</b>	
<b>June Hours</b>	<b>TOTALS:</b>
<b>Number of Monthly MAN HOURS (break-down needed):</b>	2,124.0
<b>EPCS</b>	310.0
<b>Renew</b>	1,364.0
<b>Dakota Fence</b>	0.0
<b>FirstMark</b>	0.0
<b>EPCS Testing</b>	281.0
<b>Terracon Testing</b>	0.0
<b>Strata Corp</b>	169.0
	0.0
	0.0
<i>° EDF Site Rep. TEAM (if applicable)</i>	
	0
<b>EPCS Project RIR to date:</b>	0
<b>EPCS Project DART to date:</b>	0
<b>EPCS Project SR to date:</b>	0
<b>EPCS Project FR to date:</b>	0
	0
<b>Fatalities:</b>	0
<b>EPCS First Aid Only:</b>	1
<b>EPCS Near Miss/Good Catch:</b>	0
<b>EPCS Property Damage:</b>	0
<b>Recordable w/NO LOST DAYS:</b>	0
<b>Recordable w/LOST DAYS:</b>	0
<b>Number of DAYS LOST:</b>	0
<b>Number of hours worked (MONTH):</b>	2124.0
<b>Number of hours worked (Previous Months):</b>	8835.0
<b>Total Hours Worked on the Project:</b>	10959.0

**2. MERRICOURT SUBSTATION ENGINEERING**

- a. Substation Design Drawings:
  - i. Physical design
    - 1. All physical drawings have been issued for construction.
  - ii. Electrical design
    - 1. All electrical drawings have been issued for construction

**3. MERRICOURT SUBSTATION SCADA:**

- a. Merricourt Substation RTU (D20) Master Tag List V4.1 has been submitted for OTP review.
- b. ECI will be on site week of 07/13 for SCADA programming and testing.

**4. MERRICOURT SUBSTATION STUDIES:**

- a. Harmonic
  - i. Study was stamped and issued for record on May 5, 2020.
- b. Lightning & Switching Overvoltage
  - i. Not applicable for this project due to short line length.
- c. Transient Overvoltage
  - i. Initial study was issued for review June 8, 2020. . Comments received on June 24.
- d. Transient Analysis
  - i. Working through coordination efforts with AMSC. Expect to have initial study issued for review in the next couple weeks.
- e. Relay Settings
  - i. Relay settings have been issued for download.
- f. Arc Flash
  - i. Initial arc flash was issued for EDF & OTP review on March 31, 2020. Comments received on June 1.
  - ii. Revised arc flash was issued for EDF & OTP review on June 19. Comments received June 7.

**5. MERRICOURT SUBSTATION MATERIALS**

- a. Material Status:
  - i. All major equipment has been received and installed

**6. MERRICOURT SUBSTATION CONSTRUCTION**

- a. Contractor Staffing:
  - i. EPC Services Company: 1-5
  - ii. Site work : 0
  - iii. Foundations: 0
  - iv. Electrical: 5-9
  - v. Total: 10-14
- b. Construction Activities:
  - i. The site is being cleaned up this week and making ready for energization next week.
  - ii. Punch list items are being worked through and marked off as completed.

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- iii. End to end testing was done last week and the testers are returning next week for the energization.
- iv. Expected energization of the station is July 15<sup>th</sup>.
- c. Progress to Date:
  - i. Site Work 99%
  - ii. Foundations 100%
  - iii. Fence 100%
  - iv. Below Grade work 100%
  - v. Steel Structures 100%
  - vi. Electrical Equipment 100%
  - vii. Control Enclosure 100%
  - viii. Control Panels 100%
  - ix. Bus Work 100%
  - x. Control Cable and Terms 100%
  - xi. Finish Rock 100%
  - xii. Testing 95%

**7. LANDOWNER & LOCAL COMMUNITY ISSUES & LOCAL SPEND:**

- a. Contractors
  - i. Approximately \$26,610
- b. Materials
  - i. Approximately \$79,550
- c. Living Expense
  - i. Motels - Approximately \$81,098
  - ii. Meals - Approximately \$22,970
  - iii. Gas - Approximately \$21,065
- d. **Total Spending \$231,293**

**8. MERRICOURT SUBSTATION RECENT PROJECT PHOTOS:**

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