



MERRICOURT SUBSTATION
EPCS/ECI MONTHLY PROJECT STATUS REPORT

DATE August 13, 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.

Project Name: Merricourt Substation Project	
Location: McIntosh County, ND	
Major "EPC" Contractors: Renew, Strata	
Turbine Supplier: NA	
EPCS Monthly Man Hours	
July Hours	TOTALS:
Number of Monthly MAN HOURS (break-down needed):	328.5
EPCS	122.5
Renew	44.0
Dakota Fence	0.0
FirstMark	0.0
EPCS Testing	59.0
Terracon Testing	0.0
Strata	103.0
0	0.0
0	0.0
° EDF Site Rep. TEAM (if applicable)	0.0
0	0.0
EPCS Project RIR to date:	0.0
EPCS Project DART to date:	0.0
EPCS Project SR to date:	0.0
EPCS Project FR to date:	0.0
0	0.0
Fatalities:	0.0
EPCS First Aid Only:	0.0
EPCS Near Miss/Good Catch:	0.0
EPCS Property Damage:	0.0
Recordable w/NO LOST DAYS:	0.0
Recordable w/LOST DAYS:	0.0
Number of DAYS LOST:	0.0
Number of hours worked (MONTH):	328.5
Number of hours worked (Previous Months):	10,959.0
Total Hours Worked on the Project:	11,287.5

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 V7b has been submitted and is considered approved for programming.
- b. On site SCADA testing has been completed for SEL-2032s.

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. Arc Flash was issued July 21, 2020.

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: 0
 - ii. Site work : 0
 - iii. Foundations: 0
 - iv. Electrical: 0
 - v. Total: 0
- b. Construction Activities:
 - i. The substation has been energized and deenergized one day later.
 - ii. The DVAR commissioning will need to be scheduled with AMSC as the system is ready (able to add and subtract VAR's).
 - iii. The Substation is ready for the energization of the wind park.

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- c. Progress to Date:
 - i. Site Work 100%
 - 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 99%

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**

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8. MERRICOURT SUBSTATION RECENT PROJECT PHOTOS:

