



MERRICOURT SUBSTATION
EPCS/ECI MONTHLY PROJECT STATUS REPORT

DATE November 7, 2019

1. SAFETY

- a. Safety orientation will be 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. Spot trucks as they are unloading.
 - iv. Barricade any open excavations.
 - v.
- c. There have been no recordable incidents this month.

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|---|----------------|
| Project Name: <u>Merricourt Substation Project</u> | |
| Location: <u>McIntosh County, ND</u> | |
| Major "EPC" Contractor: <u>Wanzek</u> | |
| Turbine Supplier: NA | |
| EPCS Monthly Man Hours | |
| October Hours | TOTALS: |
| Number of Monthly MAN HOURS (break-down needed): | 1,921.00 |
| EPCS Substation Construction Manager | 143.00 |
| (Site Grading Strata) | 102.00 |
| (Fence) | |
| (Substation) | |
| Interstate Surveying | 30.00 |
| Terracon Testing | 24.00 |
| Pine Country Nursery | |
| EPCS Testing | |
| FirstMark Foundations | 1622.00 |
| | 0.00 |
| ° EDF Site Rep. TEAM (if applicable) | |
| EPCS Project RIR to date: | 0 |
| EPCS Project DART to date: | 0 |
| EPCS Project SR to date: | 0 |
| EPCS Project FR to date: | 0 |
| Fatalities: | 0 |
| EPCS First Aid Only: | 0 |
| EPCS Near Miss/Good Catch: | 0 |
| EPCS Property Damage: | 0 |
| Recordable w/NO LOST DAYS: | 0 |
| Recordable w/LOST DAYS: | 0 |
| Number of DAYS LOST: | 0 |
| Number of hours worked (MONTH): | 1921.00 |
| Number of hours worked (Previous Months): | 571.50 |
| Total Hours Worked on the Project: | 2492.50 |

2. MERRICOURT SUBSTATION ENGINEERING

a. Substation Design Drawings:

i. Physical design

1. Shunt reactor was added and the last of the foundations & standard shaped steel was issued for EDF review on November 1, 2019.
2. Site prep design was issued for construction on August 29, 2019.
3. Initial foundation & fence was issued for construction on September 25, 2019.
4. Additional foundations and below grade package was issued for construction on October 24, 2019.

ii. Electrical design

1. 60% design package was submitted for EDF review on October 17, 2019. Comments from EDF were received on November 4th but still waiting on OTP comments.

b. MERRICOURT SUBSTATION MATERIALS

c. Material Status:

- i. Major equipment has been ordered.
- ii. Equipment is starting to show up to site.
- iii. Misc. materials are on order and scheduled to arrive as needed for the project.

3. MERRICOURT SUBSTATION CONSTRUCTION

a. Contractor Staffing:

- i. EPC Services Company: 1
- ii. Site work : 2
- iii. Foundations: 14
- iv. Electrical: 0
- v. Total: 17

b. Construction Activities:

- i. Site work has been completed for the Substation pad, the top soil will be placed next year when the contractor comes back to install the station rock
- ii. Foundations are near completion. The transformer foundation is completed.
- iii. Fence contractor will be on site November 5th to install the fence posts.
- iv. The electrical contractor Renew will be on site the week of the 4th to go over the project and get started.

c. Progress to Date:

- | | |
|----------------------|-----|
| i. Site Work | 95% |
| ii. Foundations | 85% |
| iii. Fence | 0% |
| iv. Below Grade work | 0% |
| v. Steel Structures | 0% |

| | |
|----------------------------|----|
| vi. Electrical Equipment | 0% |
| vii. Control Building | 0% |
| viii. Control Panels | 0% |
| ix. Bus Work | 0% |
| x. Control Cable and Terms | 0% |
| xi. Finish Rock | 0% |
| xii. Testing | 0% |

4. MERRICOURT SUBSTATION SCADA:

- a. SCADA design is progressing well. Conversations and meetings between ECI, EDF & OTP have been positive & productive.

5. MERRICOURT SUBSTATION STUDIES:

- a. Insulation Coordination
 - i. Initial study was issued for EDF review on September 20, 2019. Comments were received on September 30th.
 - ii. Revised study was issued for EDF review on October 9, 2019.
- b. Reactive Power Study
 - i. Initial study was submitted for EDF review on June 14, 2019. Comments were received on June 18th.
 - ii. Revised study was issued for EDF review on October 24, 2019.
- c. Short Circuit Analysis
 - i. Initial study was submitted for EDF review on June 19, 2019. Comments were received on July 10th.
 - ii. Next version of the study will be available when all major equipment drawings are available.
 - iii. .

6. LANDOWNER & LOCAL COMMUNITY ISSUES & LOCAL SPEND:

- a. Contractors
 - i. Approximately \$2,610
- b. Materials
 - i. Approximately \$53,800
- c. Living Expense
 - i. Motels - Approximately \$9,910
 - ii. Meals - Approximately \$3,050
 - iii. Gas - Approximately \$6,175
- d. **Total Spending \$75,545**

7. MERRICOURT SUBSTATION RECENT PROJECT PHOTOS:

MERRICOURT SUBSTATION PROJECT

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8. MERRICOURT SUBSTATION SCHEDULE: