



BORDER WINDS ENERGY PROJECT

WEEKLY PROJECT REPORT

Weekly report no:	31
Report for week period ending COB Friday:	02/27/2015
Calendar week no:	9

Executive Summary

This Week's Highlights

- Ground heating and foundation excavation continues at substation site;
- 35% of roof enclosure completed at O&M Building;
- AB Systems working on finalizing drilling contract to obtain Well Permit;
- Spider Plow has started mobilization to site with equipment arrival.

This Week's Key Issues

- O&M and Substation work impacted this week due to extreme temperatures;
- Poured structural fill in one LBVCR foundation on February 23, 2015. Slurry placement was not per RES Quality standards;
- Downed power lines have been removed from site, but burial of lines on hold until spring.



Safety

*Full description of week's Safety Log can be found in Exhibit 2

Type	Lost Time	Recordable Injury (Medical Aid)	Minor Injury (First Aid)	Equipment Property Damage	Near Miss	3X20 Observation
Current Period	0	0	0	0	0	0
Project To Date	1	0	9	19	65	436

Previous Week TRIR = 1.39 / Current Week TRIR = 1.37

((Lost Time + Medical Aid) * 200,000) / Total Man Hours

Previous Week RES Safety Index = 0.94 / Current Week RES Safety Index = 0.93

((Lost Time * 64) + (Injury * 16) + (Minor Injury * 4) + (Damage * 1) + (Near Miss * 0.25)) / Man Hours * 1000

Weeks Highlights:

- Site Safety Supervisors Martin Macias and Brandon Rhine attended a Safety Team Building Conference in the Broomfield office;
- Mobile base station radios were reprogrammed and reissued out to personnel to aid in communications on site;

Weeks Issues:

- Severe weather conditions caused a decrease in production this week.

Project Work Hours:

- Weekly Man-hours: 1164.00
- Total Project Man-hours: 145,247.20



Environmental

*Full description of week's Environmental Report can be found in Exhibit 2

Type	Major Incident	Minor Incident	Near Miss	Observation
Current Period	0	0	0	1
Project to Date	0	47	3	22

Rolling Incident Score

Previous week: 0.88 Current Week: 0.86

$((\text{Major Incident} * 16) + (\text{Minor Incident} * 4) + (\text{Near Miss} * 0.25) + (\text{Observation} * 0)) * 1000 / \text{Total Man Hours}$

Week's Highlights:

- Frozen ground conditions.
- Temperature remained below freezing through the week. No snow thaw observed.
- Will start preparing for snow thaw and water run-off. Expected temperature above freezing after 3/10/15.

Quality

*Full description of week's Quality Report can be found in Exhibit 4

Type	RES Issued NCRs			RES Issued CPARs			Client Issued NCRs			Client Issued CPARs		
	Issued	Open	Closed	Issued	Open	Closed	Issued	Open	Closed	Issued	Open	Closed
Current Period	0	0	0	0	0	0	0	0	0	0	0	0
PTD	3	3	3	0	0	0	7	1	6	0	0	0

Week's Highlights:

- Collecting information for the job books;
- Monitored construction at the O & M Building;
- Discussed the use of pea gravel in place of slurry for foundations at substation;
- Commenced installation of roof liner at the O&M Building;
- Received torque wrench to check bolts at the O&M;
- Received gradation on pea gravel from Materials Testing Services; and
- Held meeting with Rosendin to discuss issues with first substation pour.

Week's Issues:

- Initial slurry pour at the substation did not go well. Weather played a huge role. Waiting on response from EOR to decide to do what with existing pour.



Schedule Status

Project duration	73
No. of weeks into contract	33
Contract time passed (%)	45%

Key Activities (Construction)	Weighted %	Percent Complete		
		Contract Schedule	Construction Schedule	Actual
Design Engineering	2.5%	100%	100%	100%
Roads	14%	100%	83%	83%
Crane Pads	6%	0%	0%	0%
Foundations	20%	100%	95%	95%
Collection System	20%	46%	30%	30%
Substation	10%	55%	16%	18%
WTG Delivery, Erection, MCC	20%	0%	0%	0%
O&M Building	5%	100%	28%	30%
Completion	2.5%	0%	0%	0%
Overall Actual Percent Complete				45%

Progress Report

Permit Status

Permit Type / Description	County / State	Responsible Group	Date Needed By	Status
O&M Well Permit	ND State	AB Systems	8/30/15	Pending submittal

- Well sample from nearby location determined water to be potable. Finalizing drilling contract.

Construction Status

Certificates	Total	Submitted	Signed
Foundation Completion Certificate	75	71	0
Mechanical Completion Certificate	75	0	0
Electrical Works Completion Certificate	1	0	0
Project Mechanical Completion Certificate	1	0	0
Project Substantial Completion Certificate	1	0	0



Project Final Completion	1	0	0
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ROADS & CRANE PADS

Item	Weighted %	Budget	Total Completed	Total Remaining	Percent Complete
Roads	70%		Roads		69%
Clear and Grub	20%	152,837	152,837	0	100%
Subgrade	25%	152,837	141,346	11,491	92%
Place and Compact Road Base	30%	207,469	185,555	21,914	89%
Shoulders	15%	152,837	0	152,837	0%
Ditches	10%	152,837	0	152,837	0%
Crane Pads	30%		Crane Pads		0%
Shape and Compact Sub Grade	40%	75	0	75	0%
Place and Compact Road Base	60%	75	0	75	0%

Comments:

- Construction of new roads is on hold due to frozen subgrade conditions
 - Road construction planned to resume mid-May, 2015.

FOUNDATIONS

Item	Weighted %	Budget	Total Completed	Total Remaining	Percent Complete
Excavations	10%	75	71	4	95%
Mud Mats	5%	75	71	4	95%
Bases	45%	75	71	4	95%
Pedestals	20%	75	71	4	95%
Backfilled	15%	75	71	4	95%
Vestas Ground Kit	5%	75	71	4	95%

Foundation Progress 95%

Comments:

- Foundation construction planned to resume mid-May, 2015



COLLECTION SYSTEM

Item	Weighted %	Quantity	Total Received	Total Remaining	Percent Complete
Deliveries	30.0%		Deliveries		97%
Grounding Transformers	10.0%	6	0	6	0.0%
MV Cable 3/0 AWG AL	15.0%	308,288	314,910	0	100%
MV Cable 350 Kcmil AL	7.5%	140,708	143,964	0	100%
MV Cable 750 Kcmil AL	15.0%	217,740	208,085	0	100%
MV Cable 1000 Kcmil AL	7.5%	88,167	90,485	0	100%
MV Cable 1250 Kcmil AL	20.0%	147,069	150,472	0	100%
Fiber 12 count	2.5%	328,520	336,590	0	100%
Fiber 120 count	2.5%	6,587	6,587	0	100%
Ground Cable	10.0%	299,663	299,663	0	100%
Junction Boxes	5.0%	28	28	0	100%
Rubber Goods	5.0%	1420	772	648	54%
Installations	50.0%		Installations		5%
Trench	60%	278,230	24,611	253,619	8%
MV & Fiber/Ground Cable	30%	297,841	31,052	266,789	10%
Grounding Transformers	5%	6	0	6	0.0%
Junction Boxes	5%	28	0	28	0.0%
Terminations	20.0%		Terminations		0.0%
Grounding Transformers	10.0%	6	0	6	0.0%
Junction Boxes	30.0%	28	0	28	0.0%
Turbines	60.0%	75	0	75	0.0%

Collection System Progress: 33%

Comments:

- Spider Plow mobilized to site and have begun staging equipment;
- TOV Study transmitted to Xcel;
- Continued to work on signing off of the grounding transformers;
- Continued work on supplying response to Incoming RFI 350089-028 received from REI. Awaiting information from Vestas;
- Coordinated with REC pricing for grounding transformer containment pits;
- Continued to set up contracts for GAR and Northern Plains Electric;
- Continued to work with Chad Peterson at Xcel to sign off on Xcel overhead line crossing;
- Corrected cable segments for reel designations; and
- Westwood Surveyors expected on site March 2, 2015 to survey for Spider Plow.



O&M BUILDING

Activity Description	Required	Unit	Remains	% Comp.
Earthworks	100	%	15	85%
Foundation	100	%	15	85%
Deliver Building	100	%	0	100%
Building Enclosed	100	%	15	85%
Building Interior Framing	100	%	100	0%
Building Electrical	100	%	100	0%
Building HVAC	100	%	100	0%
Plumbing	100	%	100	0%
Building Interior Trim & Finishing	100	%	100	0%
Septic System	100	%	100	0%
Water Well	100	%	100	0%
Fence and Yard Rock	100	%	100	0%

O&M Building Progress: 30%

Comments:

- Extreme cold weather causing three days of downtime on February 25-27th, 2015, and limited production on February 24, 2015;
- 35% of roof enclosure completed;
- Working with the subcontractor to incorporate Xcel's comments in the drawings;
- AB Systems is working on finalizing the drilling contract to obtain a well permit;
- Received preliminary security SOW from VTI (Xcel security supplier), and currently working with AB Systems to issue a complete SOW;
 - Any variance from PSA specification will be addressed via Change Order with Xcel;
- Xcel responded to RFI 23053-040 regarding the O&M finishes selection. It was determined that no additional cost will occur based on Xcel selection.



Substation

Item	Weighted	Required	Total Completed	Total Remaining	Percent Complete
Design	20%	Design			
Design Drawings	20%	100	70	30	70.0%
Deliveries	35%	Deliveries			
Structural Steel	5%	100	0	100	0.0%
Main Transformer	15%	100	0	100	0.0%
Control House	5%	100	0	100	0.0%
Relay Panel	2.5%	100	0	100	0.0%
Arrestors	2.5%	100	0	100	0.0%
Switches	2.5%	100	0	100	0.0%
Breakers	2.5%	100	0	100	0.0%
Construction	45%	Construction			
Grading & Drainage	5%	100	75	25	75.0%
Foundations	10%	100	5	95	5.0%
Underground/Grounding	5%	100	0	100	0.0%
Structural Steel Work	5%	100	0	100	0.0%
Equipment Installation	5%	100	0	100	0.0%
Control Building/Wiring	5%	100	0	100	0.0%
Transformer Fit Out	5%	100	0	100	0.0%
Commission	5%	100	0	100	0.0%
Fence, Gravel, & Clean Up	2.5%	100	0	100	0.0%

Substation Progress: 18%

Comments:

- Poured structural fill in one (1) LVBKR foundation;
- Conducted a QA/QC meeting to review the challenges we had pouring the first foundation and procedures to overcome those challenges;
- Excavated four (4) LVBKR foundations and prepared the locations for structural fill pour. One (1) pour is planned for Monday 3/02/2015;
- Excavated three (3) Cap Bank foundations;
- Rosendin continues ground heating installation on the LVBKR and Cap Bank foundations to protect the subgrade until Structural fill installation;
- Excavated the GSU foundation until refusal and reapplied the thaw units;
- Continuous snow removal and staging of connex for wind breaks; and
- Working with REI to issue the final below grade package.

Exhibit 1 – Site Photographs



Substation Excavations



Substation Ground Heating