



## BORDER WINDS ENERGY PROJECT

### WEEKLY PROJECT REPORT

Weekly report no:	32
Report for week period ending COB Friday:	03/06/2015
Calendar week no:	10

### Executive Summary

#### This Week's Highlights

- Ground heating, foundation excavations, and conduit installations continue at substation site;
- Poured slurry at five (5) low-voltage breakers, for a total of five (6) out of seven (7);
- 65% of roof enclosure completed at O&M Building;
- AB Systems working on finalizing drilling contract to obtain Well Permit;
- Spider Plow has begun pre-ripping in preparation of plowing bore pipe;
- Several members of the Border Winds team attended a Team Building Conference at the Pleasant Valley job site.

#### This Week's Key Issues

- O&M and Substation work impacted this week due to extreme temperatures; and
- 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	1	0	0
Project To Date	1	0	9	20	65	436

**Previous Week's TRIR = 1.37 / Current Week's TRIR = 1.36**

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

**Previous Week's RES Safety Index = 0.93 / Current Week's 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 Supervisor Brandon Rhine taught the first in-house First Aid/CPR/AED class on site; and
- A selected few from Border Winds attended a Team Building Conference at the Pleasant Valley Project in Minnesota.

**Weeks Issues:**

- Drastic weather caused Border Winds to shutdown March 3, 2015.

**Project Work Hours:**

- Weekly Man-hours: 1,009.00
- Total Project Man-hours: 146,256.20



**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;
- Monitored pouring of slurry at the Substation for low-voltage breakers ID-3, IF-3, IB-3, and IJ-3.

**Week's Issues:**

- Work halted on March 3<sup>rd</sup> and March 4<sup>th</sup> due to extreme weather conditions.



## Schedule Status

Project duration	74
No. of weeks into contract	34
Contract time passed (%)	46%

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%	26%
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				40%

## 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



**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
<b>Deliveries</b>	<b>30.0%</b>		<b>Deliveries</b>		<b>91%</b>
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	1406	14	99%
<b>Installations</b>	<b>50.0%</b>		<b>Installations</b>		<b>5%</b>
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%
<b>Terminations</b>	<b>20.0%</b>		<b>Terminations</b>		<b>0.0%</b>
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: 31%**

**Comments:**

- Spider Plow started pre-ripping in preparation of bore installations;
- Dolan mobilized to site and began fusing of bore pipe;
- Received Xcel approval on the TOV Study;
- Received Xcel approval on the grounding transformers;
- Worked with Kyler Leen to confirm trench compaction specifications;
- Westwood Surveyors on site to stake all jurisdictional wetlands, regular wetlands, and fish and wild life areas;
- 99% of rubber goods received on site;
- Continued to work with South Wire to close out cable test certifications;
- Continued work supplying response to Incoming RFI 350089-028 received from REI;
- Coordinated with REC pricing for grounding transformer containment pits;
- Continued to work with Jeff Richardson to set up contracts with ground grid tester.
- Continued to work with Chad Peterson at Xcel to sign off on Xcel overhead line crossing.



**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	%	10	90%
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 weather conditions causing two days down time on March 3<sup>rd</sup> and 4<sup>th</sup>, mainly due to wind conditions;
- 65% 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.