



BORDER WINDS ENERGY PROJECT

WEEKLY PROJECT REPORT

Weekly report no:	37
Report for week period ending COB Friday:	04/10/2015
Calendar week no:	15

Executive Summary

This Week's Highlights

- Design Review Meeting and SCADA meeting was held on Thursday 4/9/2015 with Xcel, REI and RES at Xcel office in Minneapolis. Limited comments received and IFC drawings expected within two (2) weeks;
- Rosendin remobilizing on 4/13/2015 with completion of mobilization by Wednesday, 4/15/2015;
- Completed underground plumbing and electrical work at the O&M building on Thursday, 4/9/2015;
- Completed the pour for the storm shelter footing at the O&M building on Friday 4/10/2015;
- Rearranged the connex and cleaned the laydown yard;
- RES civil crew will mobilize to site on Monday, 4/13/2015;
- RES self-perform crew mobilized on 4/7/2015 and commenced installing cable with excavators on Wednesday, 4/8/2015. Trencher is under repair;
- Building & Earth mobilized to site on Tuesday, 4/7/15;
- New recycling bins will be delivered by Friday, 4/17/2015.

This Week's Key Issues

- Wet conditions throughout the site roads and access roads. Vehicle operators advised to reduce speeds and drive for the conditions while operating;
- Working to improve drainage and muddy conditions in the employee parking area.



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	5
Project To Date	1	0	9	20	68	461

Previous Week's TRIR = 1.32 / Current Week's TRIR = 1.30

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

Previous Week's RES Safety Index = 0.90 / Current Week's RES Safety Index = 0.87

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

Weeks Highlights:

- Returning employees who haven't worked on site since fall worked their first week on site with no incidents;
- Large site map w/ Plexiglas cover placed in safety trailer and color coding completed for visual aid of daily area work being conducted;
- New site safety supervisor interviewed and hired, will start work on 04/20/2015;
- Barricades that have fallen or in need of repairs were fixed across the site;
- Goal posts repaired across the site.

Weeks Issues:

- Border Winds safety became aware of reports from locals about Xcel vehicles speeding on the roads. Onsite Xcel inspectors were informed and asked to assist with making substation crews aware of speed limits requirements.

Project Work Hours:

- Weekly Man-hours: 1,956.00
- Total Project Man-hours: 153,402.70
- Hours since Last Recordable Injury: 51,173.00



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	49	3	27

Rolling Incident Score

Previous week: 0.91 / Current Week: 0.87

((Major Incident * 16) + (Minor Incident * 4) + (Near Miss * 0.25) + (Observation * 0)) * 1000 / Total Man Hours

Week's Highlights:

- New recycling bins will be provided by Friday, 4/17/2015;
- Rearranged the connex and cleaned the laydown yard;
- All equipment is equipped with spill kits for immediate spill/leak control.

Week's Issues:

- Contaminated soil bin on site is full and will require replacement.

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	0	3	0	0	0	7	1	6	0	0	0

Week's Highlights:

- Building & Earth mobilized on 4/7/2015. Started density test for collector backfills;
- Discussed planned work and testing requirements with B&E;
- Monitored construction at the O & M Building;
- Anticipating re-starting the daily quality meeting 4/15/2015;
- Uploaded TOC file folders to ECM;
- Collecting information at each turbine site for bolt heat #'s for the Job Books;
- Monitored concrete placement for storm shelter footing at O&M Building.



Schedule Status

Project duration	68
No. of weeks into contract	39
Contract time passed (%)	57%

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%	32%	32%
Substation	10%	55%	30%	26%
WTG Delivery, Erection, MCC	20%	0%	0%	0%
O&M Building	5%	100%	37%	35%
Completion	2.5%	0%	0%	0%
Overall Actual Percent Complete				41%

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

- AB System working to finalize the well construction contract. Requested for additional bids to finalize the contractor.

Construction Status

Certificates	Total	Submitted	Signed
Foundation Completion Certificate	75	71	71
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:

- Civil crew will mobilize to site on Monday, 4/13/2015;
- Civil work on circuit 5 will start on Wednesday, 4/15/2015;
- Westwood was on site staked all of circuit 5 crane pads and intersections.

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			91%
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%
Installations	50.0%	Installations			9%
Trench	60%	278,230	29,814	253,565	10%
MV & Fiber/Ground Cable	30%	297,841	36,146	259,897	12%
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: 32%

Comments:

- RES Cable crew mobilized to site on Monday, 4/7/2015;
- Started installing cable with excavators on Wednesday, 4/8/2015. Trencher is under repair;
- Received steel junction boxes on site;
- Jeff Richardson is working with Northern Plains for billing on line drops;
- Spider Plow demobilized to the Pleasant valley site on Friday, 4/10/2015.



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	%	1	99%
Building Interior Framing	100	%	100	0%
Building Electrical	100	%	90	10%
Building HVAC	100	%	100	0%
Plumbing	100	%	90	10%
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: 35%

Comments:

- Completed underground plumbing and electrical work on Thursday, 4/9/2015;
- Completed the pour for the storm shelter footing on Friday 4/10/2015;
- Completed roof sheeting work;
- Continuing window framing and installation;
- Geo-technical EOR is scheduled next week to verify the sub-grade conditions prior to concreting activities;
- AB Systems is finalizing the drilling contract to obtain a well permit; RES has requested for additional bids.



SUBSTATION

Item	Weighted	Required	Total Completed	Total Remaining	Percent Complete
Design	20%	Design			70%
Design Drawings	20%	100	70	30	70.0%
Deliveries	35%	Deliveries			0%
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			9%
Grading & Drainage	5%	100	75	25	75.0%
Foundations	10%	100	11	89	11.0%
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: 26%

Comments:

- Design Review Meeting and SCADA meeting was held on Thursday 4/9/2015 with Xcel, REI and RES at Xcel office in Minneapolis;
- Rosendin scheduled to complete remobilization by Wednesday, 4/15/2015;
- The drilling crew for pier excavations is scheduled for the week of 4/20/2015;
- Information is being transmitted to Van Dyke Brothers Transportation for future delivery of MPT.

Exhibit 1 – Site Photographs



Spider Plow demobilization



O&M Building



O&M Building –Shop drain formwork



Exhibit 2 – Safety log

#	Date:	Incident Observed During:	Incident Type:	Company Involved:	Incident Details:	Corrective Action Details:	Actions Taken to Prevent Reoccurrence:
476	4/7/2015	Safety Inspection	Safe Work Observation	RES Americas	Section 1 Job information and Setup completed. Adequate at the time of inspection.	None, this was a Safe Observation.	None, this was a Safe Observation.
477	4/7/2015	Safety Inspection	Safe Work Observation	PCS	Section 6 Hand Tools completed. Adequate at the time of inspection.	None, this was a Safe Observation.	None, this was a Safe Observation.
478	4/7/2015	Safety Inspection	Safe Work Observation	PCS	Section 7 Power Tools completed. Adequate at the time of inspection.	None, this was a Safe Observation.	None, this was a Safe Observation.
479	4/8/2015	Safety Inspection	Safe Work Observation	RES Earth and Cable	Section 16 PPE completed. Adequate at the time of inspection.	None, this was a Safe Observation.	None, this was a Safe Observation.
480	4/8/2015	Safety Inspection	Safe Work Observation	RES Earth and Cable	Section 19 First Aid completed. Adequate at the time of inspection.	None, this was a Safe Observation.	None, this was a Safe Observation.
481	4/8/2015	Safety Inspection	Safe Work Observation	RES Earth and Cable	Section 3 Fire Prevention completed. Adequate at the time of inspection.	None, this was a Safe Observation.	None, this was a Safe Observation.
482	4/8/2015	Safety Walk	Safe Work Observation	RES Americas	All fire extinguishers in RES Americas trailers and employee vehicles have been signed off and are in service.	None, this was a Safe Observation.	None, this was a Safe Observation.
483	4/8/2015	Safety Walk	Hazard Observation	Xcel Energy	The fire extinguisher in the client (Xcel) trailer has not been signed off since January.	Extinguisher was given an inspection by Site Safety Supervisor. Months not inspected were marked as such and the April inspection was completed. The extinguisher is in service.	None, this was a Safe Observation.
484	4/9/2015	Safety Walk	Safe Work Observation	RES Earth and Cable	While removing material and grooming parking area. Team members set up a one direction flow of vehicles in and out of the laydown yard relieving congestion.	None, this was a Safe Observation.	None, this was a Safe Observation.
485	4/9/2015	Safety Walk	Safe Work Observation	PCS	Operator was wearing his seat belt and used a spotter when close to structure.	None, this was a Safe Observation.	None, this was a Safe Observation.
486	4/9/2015	Safety Walk	Hazard Observation	PCS	A shovel was left in a walk way presenting a trip hazard.	Shovel was removed and stored with other hand tools.	Crew working at the O&M building was reminded that they need to store hand tools correctly or place them in such a way where it does not pose a hazard when left un attended.



Exhibit 3 – Environmental Log

#	CLASS	SUB-CAT	CONTRACTOR	DATE	INCIDENT DETAILS	ACTION TAKEN TO CORRECT SITUATION	ACTION TAKEN TO PREVENT REOCCURANCE
23053-15-33	Observation	Trash or other Refuse	RES	4/8/2014	Special waste bin for contaminated soil is full and will need to be taken off site by Waste Management Inc.	Contact Waste Management Inc.	No action required. Request replacement special waste bin.

Exhibit 4 – Quality Log

- Incidents - None
- CPARs - None
- NCRs - 7

Material Receipt

Description of Material	Delivery Date	Vendor	Quantity	Cumulative Qty	Balance

Description of Material	NCR Opened (Current Period)	NCR Closed (Current Period)	Total NCR Open (As of this Week)	Total NCR Closed (As of this Week)
Totals			1	6
NCR-2014-38, T3 grounding was not installed per specifications			X	



**FIELD QUALITY CONTROL PROGRAM
DEFICIENCY REPORT REGISTER**

No.	Description i.e. Roads, Foundations, Electrical	LOCATION	Turbine #	Test Document No:	DEFICIENCY DESCRIPTION	DATE ENTERED	DATE CLEARED
1	Roads, Culverts	Road K2 Sta. 21+00	T-28/T-29	USCF-001	Incorrect Culvert Installation	9/29/2014	11/24/2014
2	Roads, Culverts	Road W# Sta. 00+12	T-59	USCF-001	Incorrect Culvert Installation	9/29/2014	
3	Foundations	T-49 Base	T-49	USCF-001	Foundation not protected for cold weather per ACI 306	10/08/2014	11/05/2014
4	Roads, Culverts	105 th Ave Sta. 15+25		USCF-001	Geogrid not replace after installation	10/14/2014	
5	Roads, Culverts	Access Road T2	T-74	USCF-001	Road alignment incorrect, Culverts missing	9/30/2014	
6	Roads, Culverts	N1 00+00	T-45	USCF-001	Culvert was not inspected prior or during backfill, improper material used for back fill	11/05/2014	
7	Roads, Culverts	Access Road R1	T-63	USCF-001	Soft spots in road and Geogrid is damaged	10/25/2014	
8	Roads, Culverts	Access Roads to T-9, T-10, T-11, T- 34, T-35 & T-71		USCF-001	Class 5 material is out of specification, the roads need to be monitored for performance	11/13/2014	
9	Roads, Culverts	Access road to T-13 Sta. 8+00	T-13	USCF-001	Geogrid was damaged and the repair was not witnessed by Quality	11/13/2014	
10	Roads, Culverts	Culvert at T-26	T-26	USCF-001	Needs to be extended on west end	11/23/2014	
11	Roads, Culverts	Access Road C2	T-10	USCF-001	The access road needs to be re-aligned per the land owner's request.	12/03/2014	
12	Foundations	O&M Building		USCF-002	Stoop footer at S/E end of building has wrong backfill material	12/05/2014	



Exhibit 5 – RFI Log

*Open RFIs and RFIs closed last week

	Generated By	Company	Sent To	Company	Subject	Date Sent	Response Requested By	Type: Civil, Electrical, etc.	Status / Comments	Date Closed
23053-30	Shabeeb Abdul Khader	RES	Bradley Morrison	Xcel Energy - Generation	Install crushed aggregate on the substation site	10/31/2014	11/6/2014	Civil	Xcel Responded. RES to monitor the spring thaw.	
23053-42	Emad Alaydi	RES	Tim Boardman	AB Systems	Potable Water - O&M	1/22/2014	1/29/2015	O&M	RES provided the requested information	
23053-56	Emad Alaydi	RES	Scott Lucia	Rosendin Electric	Equipment Delivery Schedule	2/25/2015	3/4/2015	Substation		
23053-61	Ryan Burris	RES	Richard Farmer	Vestas	Delivery Vehicle Widths	3/6/2015	3/11/2015	Civil		4/9/2015
23053-62	Shabeeb Abdul Khader	RES	Richard Farmer	Vestas	Vestas Mk7H and Mk10 PE Stamped Structural Tower Drawings	3/6/2015	3/20/2015	Turbines		
23053-64	Shabeeb Abdul Khader	RES	Richard Farmer	Vestas	Vestas FAA Light Over Voltage Protection Requirements	3/6/2015	3/20/2015	Turbines		