



BORDER WINDS ENERGY PROJECT

WEEKLY PROJECT REPORT

Weekly report no:	33
Report for week period ending COB Friday:	03/13/2015
Calendar week no:	11

Executive Summary

This Week's Highlights

- Main transformer pad at the substation poured on Tuesday, 3/10/2015
- Spider plow installed 950' of bore pipe. Dolan crew on site to fuse pipes.
- Received all cable test certs from Southwire
- Discussed the security SOW with VTI; and sent to Xcel;
- AB Systems working on finalizing drilling contract to obtain Well Permit;

This Week's Key Issues

- Road restriction started for Rolla region on Friday, 3/13/2015.
- Rosendin to demobilize from site on Tuesday, 3/17/2015.
- Water accumulated at different locations of the site after the snow melt.



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	8
Project To Date	1	0	9	20	65	444

Previous Week's TRIR = 1.36 / Current Week's TRIR = 1.35

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

Previous Week's RES Safety Index = 0.93 / Current Week's RES Safety Index = 0.92

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

Weeks Highlights:

- With adverse weather conditions, there were no incidents or property damages on site;
- Site Safety Supervisor Macias gave additional fall protection training to PCS before any work began on the roof.

Project Work Hours:

- Weekly Man-hours: 1,557.00
- Total Project Man-hours: 147,813.20



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	2
Project to Date	0	47	3	24

Rolling Incident Score

Previous week: 0.84 Current Week: 0.81

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

Week's Highlights:

- Started BMP inspection and monitoring site condition on 3/13/15. No significant run-off.
- The top soil Temperature above freezing through the week. Most of the snow has thawed.
- Soil berms at turbine site remain intact following snow thaw.

Week's Issues:

- Observed water accumulated at turbine sites due to the snow melt. Working to ensure proper drainage.
- Soil berms continue to remain frozen and will be tracked later.

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:

- Checked random 10% torque for the bolts in the O & M building steel structure, with a 100% pass rate.
- Monitored construction at the O & M Building



Schedule Status

Project duration	75
No. of weeks into contract	35
Contract time passed (%)	47%

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%	30%	26%
WTG Delivery, Erection, MCC	20%	0%	0%	0%
O&M Building	5%	100%	32%	31%
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

- AB System working to finalize the well construction contract and schedule the work.

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
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		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: 31%

Comments:

- Spider plow installed 950' of bore pipe between JB1B/1 and 43.
- Spider plow mobilized to 71 to 76, installed bore pipe in 3 locations.
- Dolan crew on site to fuse pipes in front of Spider Plow.
- Received all cable test certs from Southwire.
- Continuing to work on contractor responsibility for SCADA SOW.
- Coordinated with REC pricing for grounding transformer containment pits;
- Continued to work with Jeff Richardson to set up contracts with ground grid tester.



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	92%
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: 31%

Comments:

- Started work on interior insulation within the O&M building.
- 75% of roof enclosure completed. Continuing roof sheet installation based on wind conditions.
- Received information regarding the backup generator from Xcel.
- Received the revised schedule, preliminary Hardware shop drawings for review.
- Received change orders from AB system
- Finalized on 4' trees for the landscaping on the North and West end.
- Started temp heating to thaw the ground and prepare for the slab pour.
- Underground work – plumbing, electrical conduit work to start next week.
- 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;
- Held conference call with VTI (Xcel security supplier) regarding security SOW;
 - RFI-068 sent to Xcel to clarify SOW.



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:

- Main Transformer Pad has been poured and is in curing process through Monday, 3/16/2015.
- Power Grid de-mobilized on Thursday, 3/12/2015.
- Rosendin is on site to monitor temperature and curing process for the MTP.
- Rosendin will demobilize from site on Tuesday, 3/17/2015 and re-mobilize again mid-April.

Exhibit 1 – Site Photographs



Equipment Mobilized to site



Spider plow - Pre-Ripping



Spider plow - Pre-Ripping



Concrete pour at Substation



Exhibit 2 – Safety log

#	Date:	Incident Observed During:	Incident Type:	Company Involved:	Incident Details:	Corrective Action Details:	Actions Taken to Prevent Reoccurrence:
427	3/7/2015	Safety Walk	Safe Work Observation	Rosendin/ Powergrid	JHA was presented and correct at time of inspection.	None, this was a Safe Observation.	None, this was a Safe Observation.
428	3/9/2015	Safety Inspection	Hazard Observation	Rosendin	Section 3 Fire Prevention completed. During a Safety Inspection a Fire Extinguisher was found not inspected, mounted correctly or its location marked by a "Fire Extinguisher" sign	Rosendin foreman was made aware of the requirements for mounting, identification and inspection of Fire Extinguishers on the site. The Foreman inspected the extinguisher and then placed it in an approved bracket and mounted it.	During the all hands safety meeting all team members was reminded of conducting monthly inspections of Fire Extinguishers, First Aid Equipment and Blue marked equipment.
429	3/9/2015	Safety Walk	Hazard Observation	RES Earth and Cable	Team member was found outside of his equipment without approved safety glasses on. Employee was wearing non-ANSI approved reading glasses without side shields.	Employee was provided saline solution so that he could put in his contacts so he would not have to wear his unapproved eye glasses and then provided a pair of approved safety glasses to wear.	A discussion was held at the time of the incident related to the standards applicable to safety glasses and the importance of wearing approved safety glasses.
430	3/9/2015	Safety Inspection	Safe Work Observation	PCS	Section 16 PPE completed. Adequate at the time of inspection. After an incident last week concerning the correct use of Fall Protection Harnesses and PPE with this subcontractor a visual and physical inspection of all workers PPE and Harnesses were conducted.	None, this was a Safe Observation.	None, this was a Safe Observation.
431	3/9/2015	Safety Inspection	Safe Work Observation	Rosendin	Section 8 Ladders completed. Adequate at the time of inspection.	None, this was a Safe Observation.	None, this was a Safe Observation.
432	3/9/2015	Safety Inspection	Safe Work Observation	PCS	Section 17 Work at Height completed. Adequate at the time of inspection.	None, this was a Safe Observation.	None, this was a Safe Observation.
433	3/9/2015	Safety Inspection	Safe Work Observation	RES Americas	Section 19 First Aid completed. Adequate at the time of inspection.	None, this was a Safe Observation.	None, this was a Safe Observation.



434	3/9/2015	Safety Inspection	Safe Work Observation	RES Americas	Section 18 Scaffolds completed. Non-Applicable Section.	None, this was a Safe Observation.	None, this was a Safe Observation.
435	3/9/2015	Safety Inspection	Safe Work Observation	RES Americas	Section 20 Explosives and Blasting completed. Non-Applicable Section.	None, this was a Safe Observation.	None, this was a Safe Observation.
436	3/10/2015	Safety Inspection	Safe Work Observation	RES Americas	Section 5 Electrical Work completed. Adequate at the time of inspection.	None, this was a Safe Observation.	None, this was a Safe Observation.
437	3/10/2015	Safety Inspection	Safe Work Observation	RES Americas	Section 4 Compound Electrics completed. Adequate at the time of inspection.	None, this was a Safe Observation.	None, this was a Safe Observation.
438	3/10/2015	Safety Inspection	Safe Work Observation	Power Grid	Section 14 Concrete Construction completed. Non-Applicable Section.	None, this was a Safe Observation.	None, this was a Safe Observation.
439	3/10/2015	Safety Inspection	Safe Work Observation	RES Earth and Cable	Section 21 Vehicle Safety completed. Adequate at the time of inspection.	None, this was a Safe Observation.	None, this was a Safe Observation.
440	3/10/2015	Normal Work Activities	Hazard Observation	RES Americas	While driving the site a stop sign at the intersection of 103rd St and 52nd Ave was found to have come loose and hanging upside down.	Safety Supervisor stopped and fixed the sign re mounting it to the post with the hardware that was undone from the sign and post.	None, this was a Safe Observation.
441	3/10/2015	Normal Work Activities	Hazard Observation	RES Americas	While driving the site a stop sign at the intersection of 105th St and 52nd Ave was found on the ground.	Safety Supervisor stopper and picked up the sign and gave it to the Civil Foreman for re mounting.	None, this was a Safe Observation.
442	3/10/2015	Safety Inspection	Safe Work Observation	RES Americas	Section 15 SDS completed. Adequate at the time of inspection.	None, this was a Safe Observation.	None, this was a Safe Observation.
443	3/10/2015	Safety Inspection	Safe Work Observation	RES Earth and Cable	Section 12 Flammable Gases and Liquids completed.	None, this was a Safe Observation.	None, this was a Safe Observation.
444	3/10/2015	Safety Inspection	Safe Work Observation	PCS	Section 9 Lifting Operations was completed. Non-Applicable Section	None, this was a Safe Observation.	None, this was a Safe Observation.
445	3/10/2015	Safety Inspection	Safe Work Observation	RES Earth and Cable	Section 6 Hand Tools completed. Non-Applicable at the time of inspection due to all work being done with machines.	None, this was a Safe Observation.	None, this was a Safe Observation.



446	3/7/2015	Safety Walk	Safe Work Observation	PCS	Employees were using the proper cordless tools for installing the inner sheet metal.	None, this was a Safe Observation.	None, this was a Safe Observation.
447	3/8/2015	Safety Walk	Safe Work Observation	Rosendin/ Powergrid	Employee was witnessed utilizing the proper lifting techniques when relocating the rebar to tie it.	None, this was a Safe Observation.	None, this was a Safe Observation.
448	3/11/2015	Safety Walk	Hazard Observation	Res Earth and Cable	On 10Mar2015 there were deliveries of equipment to the site. On the morning of 11Mar2015 during a Safety Walk checking equipment it was recognized that a semi-truck trailer and 4 small vehicle trailers were unhooked and not chocked.	Civil Foreman informed that all of the trailers in the laydown yard need to be chocked. Any other trailers that arrive and are unhooked need to be chocked as well.	During the POD meeting all team members in attendance were reminded of the expectation to chock all trailers.
449	3/13/2015	Safety Walk	Hazard Observation	RES Americas	A traffic stop sign was missing at an intersection of the county roads.	The Civil Foreman was re-addressed of the issue and is in the process of repairing the traffic sign.	The Civil Foreman was re-addressed of the issue and is in the process of repairing the traffic sign.
450	3/13/2015	Safety Walk	Safe Work Observation	RES Americas	Employee took initiative when coming to an intersection and stopping regardless if a stop sign was up or not.	None, this was a Safe Observation.	None, this was a Safe Observation.
451	3/12/2015	Safety Walk	Safe Work Observation	PCS	All workers were tied off and operated the scissor lift properly. There was also a spotter in place when the lift was being moved.	None, this was a Safe Observation.	None, this was a Safe Observation.



Exhibit 3 – Environmental Log

#	CLASS	SUB-CAT	CONTRACTOR	DATE	INCIDENT DETAILS	ACTION TAKEN TO CORRECT SITUATION	ACTION TAKEN TO PREVENT REOCCURANCE
23053-15-28	Observation	Weather Event	All	3/13/2015	80% snow melted across the site. Rill erosion on access road.	Making provision to pump out/drain water.	BMP inspection and monitor drain pattern.
23053-15-29	Observation	Weather Event	All	3/13/2015	80% snow melt across the site. Water accumulated at different location throughout site.	Making provision to pump out/drain water.	BMP inspection and monitor drain pattern.



Exhibit 4 – Quality Log

- Incidents - None
- CPARs - None
- NCRs - 8

Material Receipt

Description of Material	Delivery Date	Vendor	Quantity	Cumulative Qty	Balance
N/A					

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-2014-34, Topsoil beneath subgrade fill material at the Substation			X	
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		
23053-57	Lester Archer	RES	Scott Lucia	Rosendin Electric	Substation Equipment Review	2/26/2015	INF Only	Substation		
23053-59	David Calitz	RES	Richard Farmer	Vestas	MPT Metering CTs	2/27/2015	3/5/2015	Electrical		
23053-60	Ryan Burris	RES	Brad Morrison	Xcel Energy - Generation	Substation Shallow Foundation Structural Fill	2/27/2015	3/2/2015	Substation		03/11/15
23053-61	Ryan Burris	RES	Richard Farmer	Vestas	Delivery Vehicle Widths	3/6/2015	3/11/2015	Civil		
23053-62	Shabeeb Abdul Khader	RES	Richard Farmer	Vestas	Vestas Mk7H and Mk10 PE Stamped Structural Tower Drawings	3/6/2015	3/20/2015	Civil		
23053-63	Shabeeb Abdul Khader	RES	Brad Morrison	Xcel Energy - Generation	FAA Light Manufacturer Approval	3/6/2015	3/20/2015	Electrical	Xcel responded	
23053-64	Shabeeb Abdul Khader	RES	Richard Farmer	Vestas	Vestas FAA Light Over Voltage Protection Requirements	3/6/2015	3/20/2015	Electrical		
23053-65	Lester Archer	RES	Brad Morrison	Xcel Energy - Generation	Containment Stairs	3/9/2015	3/13/2015	Substation		03/13/15
23053-66	Lester Archer	RES	Brad Morrison	Xcel Energy - Generation	Switcher Interlock	3/9/2015	3/13/2015	Substation		
23053-67	Emad Alaydi	RES	Brad Morrison	Xcel Energy - Generation	SCADA responsibility Matrix	3/9/2015	3/16/2015	SCADA		03/12/15
23053-68	Emad Alaydi	RES	Brad Morrison	Xcel Energy - Generation	O&M security system SOW	3/13/2015	3/18/2015	O&M		