



BORDER WINDS ENERGY PROJECT

WEEKLY PROJECT REPORT

Weekly report no:	36
Report for week period ending COB Friday:	04/03/2015
Calendar week no:	14

Executive Summary

This Week's Highlights

- Nelson Wind onsite this week to work on pedestal bolt heat # documentation for the job books.
- Westwood was on site and staked all of circuit 5 collection, collection line changes, remaining bore locations, spider plow test plot, circuit 5 crane pads and intersections.
- Started window framing and installation at the O&M building.
- Dolan demobilized on Thursday, 3/26/2015.
- Building & Earth will mobilize to site on Tuesday, 4/7/15.
- Received Slurry break results from results were received 4/1/15 from Braun Intertec. The slurry met specifications for installation. Documentation will be submitted to Xcel..

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 that you are operating in.
- No recycling bins on site. Recycling bins will be available by 4/13/2015 before the collector work starts.



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	3
Project To Date	1	0	9	20	68	456

Previous Week's TRIR = 1.33 / Current Week's TRIR = 1.32

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

Previous Week's RES Safety Index = 0.91 / Current Week's RES Safety Index = 0.90

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

Weeks Highlights:

- Site signs (Speed Limit, Wind Farm, Headlights and Beacon on, ect) ordered 02Apr2015 from Modesto Signs;
- Good job to PCS! Work on roof of O&M completed with no incidents related to work at height (Fall Arrest, Harnesses, Lanyards, 100% tie off), PCS did a great job assimilating to RES procedures and requirements while conducting this work;
- RES Earth and Cable crews did a great job reorganizing and cleaning up the Laydown Yard for better access, layout and traffic control.

Weeks Issues:

- Low reporting on 3x20's from site personnel, with limited work activity these numbers should go up;
- Wet conditions throughout the site roads and access roads, vehicle operators advised to reduce speeds and drive for the conditions that you are operating in.

Project Work Hours:

- Weekly Man-hours: 994.50
- Total Project Man-hours: 151,787.70
- Hours since Last Recordable Injury: 49,217.00



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	26

Rolling Incident Score

Previous week: 0.92 / Current Week: 0.92

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

Week's Highlights:

- Cleaned the area behind the trash bin and Containers.
- Continuing to dewater sites using silt bags.
- All equipment is equipped with spill kits for immediate spill/leak control.

Week's Issues:

- No recycling bins on site. Recycling bins will be available by 4/13/2015 before the collector work starts.

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:

- Nelson Wind onsite this week to work on pedestal bolt heat # documentation for the job books.
- Monitored construction at the O & M Building.
- Anticipating re-starting they daily quality meetings 4/13/15.
- Building & Earth will be mobilizing on site the week of 4/7/15.



Schedule Status

Project duration	68
No. of weeks into contract	38
Contract time passed (%)	55%

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%	31%
Substation	10%	55%	30%	26%
WTG Delivery, Erection, MCC	20%	0%	0%	0%
O&M Building	5%	100%	32%	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	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:

- Westwood was on site staked all of circuit 5 crane pads and intersections.
- Construction of new roads is on hold due to frozen subgrade conditions
 - Road construction planned to resume mid-April, 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:

- Westwood was on site and staked all of circuit 5 collection, collection line changes, remaining bore locations, spider plow test plot, circuit 5 crane pads and intersections.
- Spider Plow on site preparing their equipment for cable installation demonstration.
- Dolan demobilized on Thursday, 3/26/2015.
- Jeff Richardson contacted Northern Plains to set up contract for over-head line drops.
- Working to find adequate material for MV cable support entering towers that terminate at the switchgear.
- Purchased bare fiber to be blown in duct.
- Working with Ritchie Farmer to find out pricing on additional ladder for cable support.
- Getting pricing from BSE on patch panels and cable support brackets for tower basement.
- Had meetings with 2 land owners to go over trenching start point and paths.
- Submitted all containment installation information to Xcel.
- Planned Spider Plow cable installation demonstration on 4/20/2015.
- Collector system trenching crew will mobilize to site on Tuesday, 4/7/2015



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	%	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: 32%

Comments:

- 80% of roof enclosure completed. Minimal work of the roof last week due to wind conditions. Anticipating finishing the roof by the end of next week.
- Started window framing and installing windows.
- Geo-technical EOR is scheduled next week to verify the sub-grade conditions prior to concreting activities.
- Underground work – plumbing, electrical conduit work to start next week.
- AB Systems is finalizing the drilling contract to obtain a well permit; RES has requested for additional bids.
- Sent the updated schedule and grading plan to Xcel for review.
- RES requested further clarifications regarding the change orders from AB system. Some of the change orders will be discussed with XCEL.
- XCEL requested changes for the landscaping plan. This will result in a change order and will be further discussed with XCEL.
- RES is following up with the action items from the conference call with XCEL, VTI, and AB Systems regarding security SOW on 3/20/2015.
 - Xcel to provide a mark-up drawing specifying the equipment location and quantity in order for VTI to develop their SOW and pricing.
 - Additional cost has resulted from XCEL's requests and will be transferred in a change order to XCEL.
- RES has informed Xcel regarding the gate, finishes selection, and landscape recommendation.



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:

- Continuing to follow status of REI re-mobilize to site on 4/13/15.
- Received Slurry break results from results were received 4/1/15 from Braun Intertec. The slurry met specifications for installation. Documentation will be submitted to Xcel.
- Preparing for design review meeting with Xcel scheduled for 4/7/15.
- Continue to work with REI to ensure all information regarding the civil package is available by the April 9, 2015 for the DRM in Minneapolis with Xcel.
- Continue to gain clarification on SCADA scope of work for the Substation.
- Resolving questions concerning wiring in Electrical Control Enclosure
- Awaiting response from Xcel on 90% drawings from REI. Transmitted to Xcel with RES's review comments on Monday, 3/23/15.
- Continuing review on Change orders received from REI are under review by RES. Xcel will be provide further details once the review is complete.
- Updating Transportation Company for MPT delivery.
- Monitoring REI all deliveries to ensure all delivery dates continue to align with the construction activities.

Exhibit 1 – Site Photographs



Preparing Area for Tool Trailer and Fuel Tanks – Laydown yard



Preparing Area for Tool Trailer and Fuel Tanks – Laydown yard



Exhibit 2 – Safety log

#	Date:	Incident Observed During:	Incident Type:	Company Involved:	Incident Details:	Corrective Action Details:	Actions Taken to Prevent Reoccurrence:
469	4/1/2015	Safety Inspection	Hazard Observation	RES Earth and Cable	Section 2 Housekeeping and Sanitation completed. Inadequate at the time of inspection.	With snow thaws in the vicinity of the laydown yard, areas where snow removal piles are located there are loose materials in these areas that were covered by snow and moved at the time of the snow removal. These items need to be picked up.	For future snow removal activities team members will do their best to remove these materials from the snow either before or after relocation.
470	4/1/2015	Safety Inspection	Safe Work Observation	PCS	Section 8 Ladders completed. Adequate at the time of inspection.	None, this was a Safe Observation.	None, this was a Safe Observation.
471	4/2/2015	Safety Inspection	Safe Work Observation	RES Earth and Cable	Section 10 Storage of Materials completed. Adequate at the time of inspection.	None, this was a Safe Observation.	None, this was a Safe Observation.
472	4/2/2015	Safety Inspection	Safe Work Observation	RES Americas	Section 22 RES Staff Training completed. Adequate at the time of inspection.	Most recent training completed was American Red Cross FA/ CPR/ AED/ BBP with 18 RES and REC team members on site now certified.	None, this was a Safe Observation.
473	4/1/2015	Safety Walk	Hazard Observation	RES Earth and Cable	While relocating materials/ equipment and connex boxes in the laydown yard the entire yard should have been blocked off with a traffic barricade due the congestion, amount of equipment and materials movement.	Team Members working in the yard were advised that they need to control the work area better and asked to deploy cones and traffic barricades to various locations in the yard to prevent vehicles traffic in the area they were working.	During the safety meeting all team members participated in a discussion related to RASWP 049.
474	4/2/2015	Safety Walk	Safe Work Observation	PCS	Safety Supervisor arrived at the O&M and had all 4 PCS team members stop work and a visual and physical inspection of the fall arrest systems was conducted. All harnesses and lanyards had been inspected and signed off for the month of April.	None, this was a Safe Observation.	None, this was a Safe Observation.
475	3/28/2015	Safety Walk	Safe Work Observation	Securitas	Inspection of Securitas vehicle conducted. All PPE, safety equipment and amber beacon present and accounted for.	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
23053-15-32	Observation	Trash or other Refuse	All	3/30-3/31/2015	Damaged culverts and wooden pallets behind the trash bin/connex	Connex and Trash bin were moved and the area cleaned up.	Recycling bins for all material will be available on site soon

Exhibit 4 – Quality Log

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

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-2014-38, 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	105th 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		
23053-59	David Calitz	RES	Richard Farmer	Vestas	MPT Metering CTs	2/27/2015	3/5/2015	Electrical		
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	Sent the requested information through transmittal	03/31/15
23053-64	Shabeeb Abdul Khader	RES	Richard Farmer	Vestas	Vestas FAA Light Over Voltage Protection Requirements	3/6/2015	3/20/2015	Electrical		
23053-69	Lester Archer	RES	Brad Morrison	Xcel Energy - Generation	NERC FAC	3/19/2015	3/26/2015	Substation		
23053-70	Aaron Thooft	RES	Richard Farmer	Vestas	Harmonic Current Injection and Grid Monitoring System	3/24/2015	3/31/2015	Electrical		03/25/15
23053-71	Shabeeb Abdul Khader	RES	Brad Morrison	Xcel Energy - Generation	Turbine Numbering signages	3/25/2015	4/2/2015	Civil		03/25/15
23053-72	Shabeeb Abdul Khader	RES	Richard Farmer	Vestas	T2X221 Tower Weights, Dimensions, And CoG	3/31/2015	4/7/2015	Turbine		