



BORDER WINDS ENERGY PROJECT WEEKLY PROJECT REPORT

Weekly report no:	22
Report for week period ending COB Friday:	12/12/14
Calendar week no:	50

Executive Summary

This Week's Highlights

- Completed revisions to laydown yard to improve traffic flow and reduce congestion;
- Completed work onsite in current period with no injuries or property damage incidents;
- Completed WTG Foundation backfills for winter protection at all completed foundations for a total of 61 completed backfills;
- Continued stockpiling aggregate for use in crane pad construction in Spring – material staged at the first 25 turbine sites based upon the planned erection sequence;
- Completed removal of rebar and anchor bolt cages from foundations not completed and stored per engineering recommendations;
- Completed backfill of foundation walls at O&M building – lift plan submitted for review prior to starting building erection next week.

This Week's Key Issues

- Working to schedule a certified electrician to complete lighting installation for laydown yard;
- Cold weather continues to impact civil work – expected shutdown by Christmas holiday;
- Working with subcontractors to update construction schedules based upon current status and required completion dates – updating overall project schedule;
- Discussed comments from Xcel on Substation 90% foundation drawings with Rosendin – established list of clarifications required and scheduled call with Xcel on December 15, 2014 to achieve clarification – information to be provided to Rosendin who will update drawings and update to IFC status with the exception of the main power transformer foundation / oil containment.



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	9	23
Project To Date	1	0	9	19	60	401

TRIR = 1.48

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

RES Safety Index = 0.99

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

Weeks Highlights:

- The laydown yard revision was completed, creating a designated parking area, equipment storage and parking area, materials storage area, connex unloading area and future fuel tank location;
- The site completed week 50 with no damage or injury incidents;
- Obstacle removal/ barricading and marking have been completed on site in anticipation of winter snow mobiles and a winter race through the project site;
- Employee participation in the safety program saw an upturn with employees submitting near misses and encouraging discussion in the morning safety meeting;
- A restock of site PPE has arrived so that we will be prepared for employee returns in the spring.

Weeks Issues:

- Site lighting has not been started, contractors have been contacted for the project and we are awaiting responses. We are currently working towards a temporary solution.

Project Work Hours:

- Weekly Man-hours: 4,569
- PTD Man-hours: 134,532



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	0
Project to Date	0	45	3	14

Rolling incident Score

Previous week: 1.02 Current Week: 0.87

Week's Highlights:

- Work completed without incident.
- Employee vehicle and equipment parking area in good condition. Inspected for oil leaks on Wednesday 12/10/2014.
- Slightly above freezing temperature during the week. No significant run-off following snow thaw.

Week's Issues:

- All waste disposed into the trash dumpster. Evaluating options to reestablish recycling.

Quality

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

	NCRs			Incidents			CPARs		
	Issued	Open	Closed	Issued	Open	Closed	Issued	Open	Closed
Weekly	0	0	0	0	0	0	0	0	0
Total	8	1	7	0	0	0	0	0	0

Week's Highlights:

- On-going - Concrete breaks, and density testing for turbine foundation backfills.
- On-going Daily Quality Meeting, the purpose of the meeting is to convey any quality construction issues between the RES quality team, RES management and Xcel team.
- On-going – Working on job books.



Work Area Inspections conducted:

- Inspection and density test back fills for T1, T19, T17, T35, T36, T37, T38, T39, T53 & T54.
- Inspection and density test backfill for O&M Building wall footers.

Schedule Status

Project duration	68
No. of weeks into contract	23
Contract time passed (%)	34 %

Key Activities (Construction)	Weighted %	Percent Complete		
		Contract Schedule	Construction Schedule	Actual
Design Engineering	2.5%	100%	100%	100%
Roads	14%	95%	83%	83%
Crane Pads	6%	0%	0%	0%
Foundations	20%	100%	95%	95%
Collection System	20%	46%	24%	24%
Substation	10%	55%	16%	16%
WTG Delivery, Erection, MCC	20%	0%	0%	0%
O&M Building	5%	100%	21%	21%
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

Comments:

- Submitted RFI on additional cost of infrastructure to allow option of municipal water in place of a well at the O&M Building – a 6,000-7,000 foot water line would have to be installed at an estimated cost of \$8-\$10 per foot.

Construction Status

Certificates	Total	Submitted	Signed
Foundation Completion Certificate	75	0	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;
- Started staging Class 5 aggregate for construction of crane pads at first 25 turbine sites in erection sequence;
- Continued work on site grading in preparation for spring thaw.

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	74	1	99%
Foundation Progress					95%

Comments:

- The four (4) remaining foundations will require completion in the Spring due to winter conditions;
 - Rebar and anchor bolt cages removed from T10, T11, and T34 – staged onsite per engineering recommendations on storage requirements for installation in the Spring;
 - Backfill T11 excavation to protect the subgrade from frost – T10 and T34 to be backfilled on Monday, 12/15/14;
- All completed foundations are backfilled to protect foundations and subgrade – some additional material will be required at select locations to complete backfill to structural requirements which will be completed in the spring;
- Engineering determined that covering of completed pedestals for winter protection is not required – submitted a TEF to document all winter protection requirements;
- Placed order for grease to enable greasing of all exposed anchor bolts for winter/spring protection from corrosion.



Collection System

Item	Weighted %	Quantity	Total Received	Total Remaining	Percent Complete
Deliveries		30.0%	Deliveries		64%
Grounding Transformers	10.0%	6	0	6	0.0%
MV Cable 3/0 AWG AL	15.0%	297,896	199,026	98,870	67%
MV Cable 350 Kcmil AL	7.5%	140,708	56,313	90,091	38%
MV Cable 750 Kcmil AL	15.0%	205,038	99,344	87,793	53%
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	0	6,587	0.0%
Ground Cable	10.0%	299,663	299,663	0	100%
Junction Boxes	5.0%	25	0	25	0.0%
Rubber Goods	5.0%	1420	772	648	54%
Installations		50.0%	Installations		9%
Trench	60%	288,150	24,552	263,598	9%
MV & Fiber/Ground Cable	30%	288,150	31,652	257,098	11%
Grounding Transformers	5%	6	0	6	0.0%
Junction Boxes	5%	25	0	25	0.0%
Terminations		20.0%	Terminations		0.0%
Grounding Transformers	10.0%	6	0	6	0.0%
Junction Boxes	30.0%	25	0	25	0.0%
Turbines	60.0%	75	0	75	0.0%

Collection System Progress: 24%

Comments:

- Receiving MV cable continuing – received 3,884 feet of 750 kcmil, 5,492 feet of 350 kcmil, and 46,159 feet of 3/0;
- Fencing and flagging points of interest on collector lines for identification and safety;
- Conducted onsite review of collector path to identify potentially required bore locations.



O&M Building

Activity Description	Required	Unit	To Date Total	Remains	% Comp.
Earthworks	100	%	75	25	75%
Foundation	100	%	75	25	75%
Deliver Building	100	%	100	0	100%
Building Enclosed	100	%	0	100	0%
Building Interior Framing	100	%	0	100	0%
Building Electrical	100	%	0	100	0%
Building HVAC	100	%	0	100	0%
Plumbing	100	%	0	100	0%
Building Interior Trim & Finishing	100	%	0	100	0%
Septic System	100	%	0	100	0%
Water Well	100	%	0	100	0%
Fence and Yard Rock	100	%	0	100	0%

O&M Building Progress: 21%

Comments:

- Stoops are poured and forms are stripped;
- O&M foundations were backfilled except for stoops interiors. EOR to clarify requirements for stoop interiors;
- Column supports were poured – heating applied to maintain concrete temperature per the cold weather concrete plan;
- Building erection scheduled to start on December 18th after operators receive Lull certification and rigging qualification ;
- Floor slab in parts storage area has been updated to 6-inch thickness;
- AB Systems submitted revised drawings and schedule – RES reviewing prior to releasing to Xcel.



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	0	100	0.0%
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: 16%

Comments:

- Received Xcel comments on 90% civil package – scheduled call on Monday, December 15, 2014 to clarify outstanding items/comments. Information will be provided to Rosendin who will correct drawings and update to IFC status with exception of main power transformer foundation / containment.
 - Main transformer foundation design reviewed by RES - design determined not to meet Xcel standards – drawings to be updated and resubmitted by Rosendin;
- Received and reviewing submittals for substation equipment.

Exhibit 1 – Site Photographs



Border Winds: GT 3(1) Location



Border Winds: Foundation Backfill



Border Winds: Foundation Backfill



Border Wiinds: O&M Building Interior Foundation Poured



Exhibit 2 – Safety log

#	DATE	INCIDENT OBSERVED DURING:	CLASS	CONTRACTOR	INCIDENT DETAILS	CORRECTIVE ACTION DETAILS	ACTION TAKEN TO PREVENT REOCCURRENCE
282	12/6/2014	Normal Work Activities	Near Miss	RES Earth and Cable	A crew truck was seen leaving the lay down yard with the windows still frosted over, obstructing drivers view.	Employee suggested to the crew in the truck to start the truck earlier to let the windows defrost.	Civil foreman told everyone that they should start the trucks earlier to allow windows to defrost and that there are ice scrapers in the blue connex.
283	12/6/2014	Normal Work Activities	Near Miss	RES Americas	While mopping the team member failed to make sure a wet floor sign was deployed.	Team member made sure that the mop bucket was visible which had a wet floor warning.	Team members were informed of using wet floor sign when mopping.
284	12/7/2014	Normal Work Activities	Near Miss	RES Earth and Cable	While working on a broken down smooth drum roller a vehicle past the ground crew going faster the 5mph.	Employee called out on the radio to make the employee aware of the hazard.	A discussion was held regarding site speed limits with all employees.
285	12/8/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	When team member arrived on site, team members working in the area stopped work and had team members add onto the local JHA.	None, this was a Safe Observation.	None, this was a Safe Observation.
286	12/8/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	All team members at location had great communications even warnings of hazards they might not recognize	None, this was a Safe Observation.	None, this was a Safe Observation.
287	12/8/2014	Safety Walk	Near Miss	RRC	A team member pulled their truck into the area being back filled and into an excavator's blind spot almost having material dropped onto the truck or hit with the excavator bucket.	The team member was directed to remove his vehicle from the area. The same team member was also addressed about making other team members working in the area aware of what he was doing and where.	Team members were informed about using situational awareness and in the middle of work locations making their intentions aware to others.



288	12/8/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	When approaching equipment team member in equipment positioned equipment and grounded bucket so the area was safe for approach.	None, this was a Safe Observation.	None, this was a Safe Observation.
289	12/8/2014	Safety Walk	Near Miss	RES Earth and Cable	The borrow pit that is being used on site was not barricaded.	Civil foreman was directed to have barricade in place before leaving site.	Team members were all reminded that it is not just turbine locations that need to be barricaded but all excavations.
290	12/8/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	Employee used proper body placement when safely cleaning his side dump of frozen material.	None, this was a Safe Observation.	None, this was a Safe Observation.
291	12/8/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	Employee's showed great use of communication when running equipment in a congested area.	None, this was a Safe Observation.	None, this was a Safe Observation.
292	12/8/2014	Safety Walk	Safe Work Observation	Munroe Builders	Employee did general clean up before demobilizing and leaving the work site.	None, this was a Safe Observation.	None, this was a Safe Observation.
293	12/8/2014	Safety Walk	Safe Work Observation	Munroe Builders	Employee had JHA and Checklist ready to be viewed and signed when supervisors arrived on site.	None, this was a Safe Observation.	None, this was a Safe Observation.
294	12/8/2014	Normal Work Activities	Near Miss	Pinky's Aggregate	An aggregate truck was backing up in order to get loaded. The driver did not look in his passenger mirror and almost backed into a team member's truck that was behind him.	The team member reporting the near miss went and talked to the driver and informed him of what had almost happened and reminded him to use his mirrors when backing.	The near miss was discussed with all of the team members in the morning meeting and reminded that they should all be on the lookout for trucks operating on site.
295	12/9/2014	Normal Work Activities	Damage	Pinky's Aggregate	An aggregate truck was delivering material to site	Driver and owner were advised that the conditions we	All aggregate companies were reminded to ensure



					T39. When pulling through the site, the truck's trailer broke.	drive in is rough terrain and that they should use caution. They were also advised to continue daily inspections and maybe do mid-day inspections to ensure equipment is still in good order.	equipment is in good working order and to conduct daily inspections.
296	12/9/2014	Normal Work Activities	Near Miss	RES Earth and Cable	When throwing trash into a new dumpster brought on site a sharp edge cut through a team member's ppe.	The team member who identified the hazard used a hammer to correct and round the sharp edge removing the hazard.	All team members were advised of the corrected hazard and directed to use caution when throwing trash into the dumpster.
297	12/9/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	Two team members were tracking equipment down a site road, when vehicles approached to pass in either direction they would stop and ground equipment buckets.	None, this was a Safe Observation.	None, this was a Safe Observation.
298	12/9/2014	Safety Walk	Hazard Observation	RES Americas	The site lay down yard was congested and posed hazards to vehicles, equipment and personnel. Additionally with more personnel arriving in the spring the yard was going to become cluttered.	Site Safety Supervisor Rhine got with the Civil Superintended and created a revised lay down yard layout. That lay down yard layout has been implemented and the changes made. Making the yard, equipment and materials easier to access.	All of the team members were devised that we would be changing the yard layout. All have agreed it is a better lay out and they have participated in its correction performing tasks that they normally wouldn't.
299	12/9/2014	Normal Work Activities	Near Miss	Site Energy Services	Truck driver from Site Energy Services was on top of a belly dump trailer cleaning the frozen material out.	The driver and supervisor of the company were educated on the proper procedure of how to clean safely.	All of the trucking companies working on site were educated as to the proper method of cleaning out trailers. Additionally all RES team members were asked to keep an eye out for truckers cleaning trucks in this manner to ensure



							their safety.
300	12/8/2012	Safety Walk	Safe Work Observation	RES Americas	After being asked by a REC employee several questions about extinguishers Site Safety Supervisor Rhine lead a class on Fire Extinguishers using NFPA 10 and RASWP 21 as an informational basis.	None, this was a Safe Observation.	None, this was a Safe Observation.
301	12/8/2012	Safety Walk	Safe Work Observation	RES Americas	Site Safety Supervisor Rhine went around the entire site, to each piece of equipment and brought tamper seals and inspections tags to each extinguisher ensuring it was in-service and compliant.	None, this was a Safe Observation.	None, this was a Safe Observation.
302	12/10/2014	Safety Walk	Hazard Observation	RES Americas	Crew truck parked at excavation did not have cones deployed while parked.	Team members at the site were made aware that cones needed to be deployed.	During the morning meeting all crew members were reminded to deploy cones when vehicles are parked.
303	12/10/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	Employee had the PPE as required by the jobsite requirements.	None, this was a Safe Observation.	None, this was a Safe Observation.
304	12/10/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	All affected employees were aware of the hazards on the JHA and understood the control measures in place to protect everyone.	None, this was a Safe Observation.	None, this was a Safe Observation.
305	12/10/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	All employees have showed great workmanship when operating in a congested area.	None, this was a Safe Observation.	None, this was a Safe Observation.
306	12/10/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	Operator took all the proper precautions when dozing	None, this was a Safe Observation.	None, this was a Safe Observation.



					around pedestal.		
307	12/10/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	Good Communication	None, this was a Safe Observation.	None, this was a Safe Observation.
308	12/10/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	All employees had on correct PPE for task being undertaken.	None, this was a Safe Observation.	None, this was a Safe Observation.
309	12/10/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	Provided JHA as soon as they arrived.	None, this was a Safe Observation.	None, this was a Safe Observation.
310	12/10/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	Crew Truck parked on access road.	None, this was a Safe Observation.	None, this was a Safe Observation.
311	12/10/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	Good operating distance between equipment and vehicles.	None, this was a Safe Observation.	None, this was a Safe Observation.
312	12/10/2014	Safety Walk	Safe Work Observation	Nelson Wind	Good use of tag lines when lifting re-bar.	None, this was a Safe Observation.	None, this was a Safe Observation.
313	12/10/2014	Safety Walk	Hazard Observation	Nelson Wind	Crew needed to update the JHA to the new work location.	Crew was reminded to have JHA's at all work locations.	All hands were reminded to continually update JHA that the document is living.
314	12/10/2014	Safety Walk	Hazard Observation	Nelson Wind	Vertical rebar's cap had fallen off the top creating a puncture hazard.	Crews were directed to get the top of the rebar covered with a cap.	Crews talked about the rebar needing caps.
315	12/10/2014	Normal Work Activities	Near Miss	Pinky's Aggregate	Driver was banging on the side of the side dump trailer with a sledge hammer and material was falling towards him.	Team member talked with the driver and informed him of the safe way to clean trailer beds.	All crews were encouraged to assist these drivers and look out for safety of all employees on site.
316	12/11/2014	Normal Work Activities	Near Miss	RES Americas	A person announced a hazard that they had seen and did not fix it at the time it was seen. They asked laborers to go and fix the problem.	Site Safety Supervisor Rhine held informed all employees that no matter the level of your position, title or seniority all employees are responsible for correcting hazards they see in the work place.	All employees were reminded that it is the responsibility of all employees to ensure a safe work place and that if they see a hazard they own it.
317	12/11/2014	Safety Walk	Hazard Observation	Rosendin	Employees were working on the jobsite with no JHA.	Employees were advised by management as to having a JHA completed and signed before any work can take	All employees from this contractor will be reminded as to the Border Winds Safety Program



						place.	procedures needed to work on site.
318	12/8/2014	Safety Walk	Safe Work Observation	Munroe Builders	Employee's had all hand tools stored properly in job trailer.	None, this was a Safe Observation.	None, this was a Safe Observation.
319	12/8/2014	Safety Walk	Safe Work Observation	Munroe Builders	Employee's had trench zones decants done in safe manner.	None, this was a Safe Observation.	None, this was a Safe Observation.
320	12/10/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	Heavy haul trucks were dispatched at site with safe concerns.	None, this was a Safe Observation.	None, this was a Safe Observation.
321	12/10/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	Stockpile spoil situated at a safe location around foundations.	None, this was a Safe Observation.	None, this was a Safe Observation.
322	12/11/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	Operator used three points of contact when gaining access into the cab of the excavator.	None, this was a Safe Observation.	None, this was a Safe Observation.
323	12/11/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	Operator of the dozer blade held a proper angle while at rest with the dozer.	None, this was a Safe Observation.	None, this was a Safe Observation.
324	12/11/2014	Safety Walk	Hazard Observation	RES Earth and Cable	There were many slip/trip hazards due to snow and ice on the jobsite where groundwork activities were taking place.	Employee's that were working in the area were advised on using proper foot placement when working in these slippery conditions.	All employees will be advised as to using proper footing techniques in the types of conditions in the next morning safety talk.
325	12/12/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	Trucks arriving at site were organized and watched speed.	None, this was a Safe Observation.	None, this was a Safe Observation.
326	12/12/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	Operators were aware of traffic and equipment movement and worked together.	None, this was a Safe Observation.	None, this was a Safe Observation.
327	12/12/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	While backfilling site, equipment operators kept 3ft from pedestal.	None, this was a Safe Observation.	None, this was a Safe Observation.
328	12/12/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	Operators kept safe distance from one another.	None, this was a Safe Observation.	None, this was a Safe Observation.
329	12/12/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	Dump truck operator brought JHA to pick up.	None, this was a Safe Observation.	None, this was a Safe Observation.



330	12/12/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	Good communication between truck and pay loader.	None, this was a Safe Observation.	None, this was a Safe Observation.
331	12/12/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	All personnel working at site had signed onto the local JHA.	None, this was a Safe Observation.	None, this was a Safe Observation.
332	12/12/2014	Safety Walk	Safe Work Observation	RES Earth and Cable	All workers wearing needed PPE for task.	None, this was a Safe Observation.	None, this was a Safe Observation.
333	12/12/2014	Safety Walk	Hazard Observation	RES Earth and Cable	2 rebar posts did not have caps.	Employees were made aware of the hazard and then told to get caps and place them on the rebar.	All employees were reminded of the importance of capping posts.
334	12/12/2014	Normal Work Activities	Safe Work Observation	RES Earth and Cable	After changing the front attachment on a front end loader the operating team member tested the functionality, use and connection of the new attachment ensuring it was attached correctly.	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



Exhibit 4 – Quality Log

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

Material Receipt

Description of Material	Delivery Date	Vendor	Quantity	Cumulative Qty	Balance

Description of Material	NCR Opened (Current Week)	NCR Closed (Current Week)	Total NCR Open (As of this Week)	Total NCR Closed (As of this week)
Totals			1	7
NCR-2014-38, T3 grounding was not installed per specifications			X	



Border Winds

FIELD QUALITY CONTROL PROGRAM DEFICIENCY REPORT REGISTER

PREPARED BY: George Protz

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-002	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 installation not per specifications	11/05/2014	
7	Roads, Culverts	108 th Ave. at T-24		USCF-001	Geogrid is showing through the class 5 material	11/10/2014	
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.	11/13/2014	
9	Roads, Culverts	Access road to T-37 Sta. 8+00	T-13	USCF-001	Geogrid is damaged	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

RFI	Generated By	Company	Sent To	Company	Subject	Date Sent	Response Requested By	Type: Civil, Electrical, etc.	Date Closed
23053-01	David Calitz	RES	Nathan Svoboda	Xcel Energy - Generation	Substation Relay Requirements	2/28/2014	3/7/2014	Electrical	03/10/14
23053-02	Kyler Leen	RES	Chris Ayika	Xcel Energy - Transmission	Allowable Voltage Step Change	3/31/2014	4/4/2014	Electrical	05/01/14
23053-03	Kyler Leen	RES	Chris Ayika	Xcel Energy - Transmission	Grid Voltage Profile	3/31/2014	4/4/2014	Electrical	05/01/14
23053-04	Kyler Leen	RES	Bradley Morrison	Xcel Energy - Generation	Main Power Transformer Design	3/31/2014	4/4/2014	Electrical	04/21/14
23053-05	Bob Tepp	RES	Ritchie Farmer	Vestas	Draka 35kV, 3x70mm ² Down-Tower Cable Data	7/16/2014	7/18/2014	Electrical	07/23/14
23053-06	David Calitz	RES	Bradley Morrison	Xcel Energy - Generation	Substation Capacitor Bank Configurations	7/31/2014	8/4/2014	Electrical	08/05/14
23053-07	Kyler Leen	RES	Chris Ayika	Xcel Energy - Transmission	VAR Neutrality	8/5/2014	8/8/2014	Electrical	10/17/14
23053-08	Bob Tepp	RES	Bradley Morrison	Xcel Energy - Generation	T58 Access Road Entrance Culvert Removal	8/13/2014	8/15/2014	Civil	08/14/14
23053-09	Bob Tepp	RES	Bradley Morrison	Xcel Energy - Generation	Access Road Adjustment to T72 and T74	8/18/2014	8/20/2014	Civil	11/19/14
23053-10	Bob Tepp	RES	Bradley Morrison	Xcel Energy - Generation	Access Road Adjustment to T71, T76, and T77	8/18/2014	8/20/2014	Civil	11/19/14
23053-11	Bob Tepp	RES	Bradley Morrison	Xcel Energy - Generation	Access Road Adjustment to T51, T52, T53, and T54	8/18/2014	8/20/2014	Civil	11/19/14
23053-12	Bob Tepp	RES	Bradley Morrison	Xcel Energy - Generation	Access Road Adjustment to T31 and T32	8/18/2014	8/21/2014	Civil	11/19/14
23053-13	Bob Tepp	RES	Bradley Morrison	Xcel Energy - Generation	Access Road Adjustment to T26	8/18/2014	8/21/2014	Civil	11/19/14
23053-14	Bob Tepp	RES	Bradley Morrison	Xcel Energy - Generation	Access Road Adjustment to T22	8/18/2014	8/21/2014	Civil	08/28/14
23053-15	Julio Lima	RES	Chris Ayika	Xcel Energy - Transmission	Peace Garden dead end structures GPS coordinates	8/21/2014	8/25/2014	Electrical	08/25/14
23053-16	Kyler Leen	RES	Chris Ayika	Xcel Energy - Transmission	Dynamic Reactive Power Inputs	9/9/2014	9/16/2014	Electrical	11/24/14
23053-17	Kyler Leen	RES	Richard Farmer	Vestas	WTG Conduit Type and Location	9/24/2014	10/1/2014	Electrical	10/03/14
23053-18	David Calitz	RES	Bradley Morrison	Xcel Energy - Generation	HV and MV disconnect switch requirements	9/26/2014	10/3/2014	Electrical	10/07/14
23053-19	Shabeeb Abdul Khader	RES	Bradley Morrison	Xcel Energy - Generation	Use aggregate from Marcel Pit	9/29/2014	10/1/2014	Civil	10/06/14
23053-20	Julio Lima	RES	Rich Rhode	Rosendin Electric	Plan and Schedule for material delivery in the load restriction period	9/30/2014	10/3/2014	Electrical	11/25/14
23053-21	Shabeeb Abdul Khader	RES	Bradley Morrison	Xcel Energy - Generation	Substation Foundation	10/8/2014	10/10/2014	Civil	10/09/14
23053-22	Shabeeb Abdul Khader	RES	Bradley Morrison	Xcel Energy - Generation	Access road adjustments to T19, T20, T79/T80, T21/T22, T15, T10/T11, T5, and T30, T1/T2	10/9/2014	10/16/2014	Civil	11/19/14

23053-23	Shabeeb Abdul Khader	RES	Bradley Morrison	Xcel Energy - Generation	Access road adjustments to T33/34	10/13/2014	10/20/2014	Civil	10/16/14
23053-24	Shabeeb Abdul Khader	RES	Bradley Morrison	Xcel Energy - Generation	Access road adjustments to T26	10/14/2014	10/21/2014	Civil	10/16/14
23053-25	Aaron Thooft	RES	Bradley Morrison	Xcel Energy - Generation	Collector System - Circuit 5 route - realignment	10/15/2014	10/22/2014	Electrical	Closed
23053-26	Shabeeb Abdul Khader	RES	Richard Farmer	Vestas	WTG Installation Manuals for the Mk7H and Mk10 V100-2.0 VCSS turbines	10/17/2014	10/21/2014	Electrical	10/23/14
23053-27	Shabeeb Abdul Khader	RES	Richard Farmer	Vestas	Grounding kit installation for T3	10/20/2014	10/27/2014	Electrical	10/29/14
23053-28	Shabeeb Abdul Khader	RES	Bradley Morrison	Xcel Energy - Generation	Concrete Slurry mix design for the Substation	10/22/2014	10/28/2014	Civil	10/31/14
23053-29	Shabeeb Abdul Khader	RES	Richard Farmer	Vestas	Generator Data Sheet	10/23/2014	10/30/2014	Electrical	10/29/14
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	
23053-31	Shabeeb Abdul Khader	RES	Bradley Morrison	Xcel Energy - Generation	Above grade containment at MPT foundation	11/5/2014	11/11/2014	Civil	
23053-32	Lester Archer	RES	Bradley Morrison, Dragana Hadziomanovic	Xcel Energy-Generation	X-MR Conduit Placement at MPT	12/1/2014	12/5/2014	Electrical	
23053-33	Emad Alaydi	RES	Bradley Morrison	Xcel Energy-Generation	SCADA SOW	12/3/2014	12/10/2014	O&M	
23053-34	Emad Alaydi	RES	Bradley Morrison	Xcel Energy - Generation	O&M Potable Water Supply	12/11/2014	12/17/2014	O&M	
23053-35	Emad Alaydi	RES	Tim Boardman	Xcel Energy - Generation	O&M Foundation Protection	12/12/2014	12/18/2014	O&M	