

## **-Info-Public Service Commission**

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**From:** Bob Tepp <Bob.Tepp@res-americas.com>  
**Sent:** Tuesday, November 18, 2014 4:45 PM  
**To:** -Info-Public Service Commission; thartlece@carlsonmccain.com  
**Cc:** Sean Flannery; Kenny Knecht  
**Subject:** Border Winds Weekly Reports  
**Attachments:** Border Wind - Weekly Construction Progress Call Notes 20141030.pdf; Border Winds - Weekly Construction Progress Call Agenda 20141106.pdf; Border Winds Weekly Construction Progress Call Notes 20141023.pdf

Sirs,

I am sending copies of the recent weekly reports for the Border Winds Energy Project to catch up to current and will be providing weekly updates going forward. I apologize for the delay in starting this process. Please feel free to contact me if you have any questions or concerns.

Respectfully,  
Bob

**Bob Tepp** | Project Manager

Renewable Energy Systems Americas Inc.  
10707 52<sup>nd</sup> Ave NE; P.O. Box 339  
Rolla, ND 58367  
701-477-5033 **Main** | 303.517.7995 **Cell**  
[bob.tepp@res-americas.com](mailto:bob.tepp@res-americas.com)  
[www.res-americas.com](http://www.res-americas.com)

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**Border Winds Energy**  
Notes of Conference Call 20141030

Name	Present	Organization	Name	Present	Organization
Bob Tepp (BT)	X	RES	Brad Morrison (BMo)	X	Xcel
Larry Clark (LC)		RES	Zach Smith (ZS)	X	Xcel
Brian Christiansen	X	RES	Nathan Svboda (NS)	X	Xcel
Shabeeb Khader	X	RES	Tony Mallizzio (TM)		Xcel
George Protz		RES	Paul Logan (PL)		Xcel
Brandon Rhine	X	RES	Michael O'Brien (MO)	X	Xcel
Lester Archer	X	RES	Doug Harthun	X	Xcel
Tim Mapp		RES			
Martin Macias		RES			
Fred Lillie		RES			
Chris Hills (CH)		RES			
Kenny Knecht (KK)	X	RES			
Julio Lima (JL)		RES			
David Calitz (DC)		RES			
Kyler Leen (KL)		RES			
Mohamed Nofal (MN)	X	RES			
Jomaa Ben-Hassine (JBH)		RES			
Ryan Burris (RB)		RES			
Steve Keuter	X	RES			
Steve Wichern		RES			
Sean Flannery		RES			
Brad Lila		RES			
Ben Cass		RES			
Jenny Bredt (JB)		RES			



1. Safety Review:

- a. Current Site Safety Index: 0.54
- b. Current TRIR: 0.00
- c. Completed 111 days onsite and 92,701 man hours
- d. Completed 21 orientations in the current period and 315 project to date
- e. Lost time injuries: 0 in week, 0 PTD
- f. Recordable injuries: 0 in week, 0 PTD
- g. First Aids: 0 in week, 8 PTD
- h. Property Damage: 2 in week, 11 PTD
- i. Near Misses: 2 in week, 23 PTD
- j. 3X20 Observations: 38 in week, 224 PTD

2. Review of Weekly Report

3. Review of Project Schedule



## BORDER WINDS ENERGY PROJECT WEEKLY PROJECT REPORT

Weekly report no:	15
Report for week period ending COB Friday:	10/24/14
Calendar week no:	43

### Executive Summary

#### This Week's Highlights

- Completed work activities with zero recordable injuries accounting for 11,305 man hours in the current week and 92,072 man hours project to date – TRIR remains at 0.00;
- Completed construction of 147,897 LF out of 189,136 LF of access road aggregate placement project to date – 78% complete;
- Completed five (5) excavations for a total of 65 of 75 sites to date – 87%;
- Poured five (5) mud mats for a total of 61 of 75 sites to date – 81%
- Poured seven (7) bases for a total of 54 of 75 foundation bases project to date – 72% complete;
- Poured eleven (11) pedestals for a total of 53 of 75 foundation pedestals project to date – 71% complete;
- Backfilled four (4) foundations for a total of 46 of 75 foundations project to date – 61% complete;
- Trenched and backfilled 14,708 LF of Collection System to date - 5% complete;
- Placed 21,290 LF of MV cable to date (includes pulls through bores) – 7% complete;
- Poured O&M Building foundation footings and forming for wall pours.

#### This Week's Key Issues

- Received NCR-2014-34 for organic material beneath subgrade material in the substation pad – identified material as a subgrade organic vein that is being removed;
- Received NCR-2014-35 for placement of concrete with standing water on the mud mat at T48 – responded to Xcel with supporting TEF from engineering stating that the amount and location of water was not a concern;



- Closed out NCR-2014-026 regarding installation of geogrid on 105<sup>th</sup> St and Access Road T-1, reviewed onsite with Rolette County and Xcel, response accepted by Xcel;
- Working with Rosendin on substation grading/foundation plans with 100% to be issued 10/27/14– need to achieve IFC status for foundation pours. – **Working with Rosendin on a revised 90% design to be submitted ASAP.**



**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	2	2	38
Project To Date	0	0	8	11	23	224

**TRIR = 0.00**

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

**RES Safety Index = +0.54**

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

**Week's Highlights:**

- Completed work with zero reportable injuries or first aids;
- Border Winds started an American Cancer Society No-Shave November team to support charitable donations for cancer research. **Met site goal of \$1,000**

**Week's Issues:**

- A phone cable not marked by the phone company was severed during a trenching operation with proper one call in place;
- A crew trucks windshield was cracked when a rock was thrown by the wheels of an aggregate truck.

**Project Work Hours:**

- Weekly Man-hours: 11,305
- PTD Man-hours: 92,072



## **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	1	0	2
Project to Date	0	36	3	9

Rolling Incident Score: **1.59**

### **Week's Highlights:**

- Maintained site roads to ensure proper drainage.

### **Week's Issues:**

- Observed increase in debris on site - addressed the issue at the All Hands Safety Meeting to maintain a clean work site every day;
- Observed an unidentified large bird near T30 & T32. No photographs available for identification;
- Anti-freeze leak from smooth drum roller while operating at the substation pad was contained and cleaned up.



## Quality

\*Full description of week's Quality Report can be found in Exhibit 3

	NCRs			Incidents			CPARs		
	Issued	Open	Closed	Issued	Open	Closed	Issued	Open	Closed
Weekly	2	2	1	0	0	0	0	0	0
Total	4	2	2	0	0	0	0	0	0

### Week's Highlights:

- On-going - sieve testing, material proctor, compaction testing, proof rolling, visual inspections for organics in the subgrade, concrete breaks & turbine base backfills;
- On-going – monitor placement of concrete for mud mats, turbine bases, and turbine pedestals;
- 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.

### Work Area Inspections conducted:

- Inspected foundation subgrades for T5, T8, T9, T15 & T16 – acceptable for mud mat;
- Inspection of base reinforcing steel for T5, T8, T19, T22, T23, & T24 – acceptable for concrete placement;
- Monitored turbine base concrete placement for T5, T8, T19, T22, T23, & T24;
- Monitored turbine pedestal concrete placement for T2, T3, T5, T12, T13, T14, T19, T21, T22, T23 & T24;
- Inspection of back fills for T77, T78, T79 & T80 – acceptable for back fill;
- Inspected substation subgrade and density checks, all density tests passed;
- Inspected Substation building subgrade and density checks; **Data to be provided to Xcel**
- Inspected culvert installations on access roads, T8 & T15 - acceptable for installation.

### Week's Issues through 10/24/2014:

- Received NCR-2014-34 for organic material beneath subgrade material in the substation pad;
- Received NCR-2014-35 for placement of concrete with standing water on the mud mat at T48;
- Closed NCR-2014-026 regarding geogrid installation at 105<sup>th</sup> St - signed as accepted by Xcel.



**Schedule Status**

Project duration	68
No. of weeks into contract	17
Contract time passed (%)	25 %

Key Activities (Construction)	Weighted %	Percent Complete		
		Contract Schedule	Construction Schedule	Actual
Design Engineering	2.5%	100%	100%	100%
Roads and Crane Pads	20%	64%	64%	64%
Foundations	20%	76%	76%	72%
Collection System	20%	41%	28%	12%
Substation	10%	32%	20%	12%
WTG Delivery, Erection, MCC	20%	0%	0%	0%
O&M Building	5%	30%	25%	10%
Completion	2.5%	0%	0%	0%
Overall Actual Percent Complete				32%

**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
O&M Septic Permit	ND State	AB Systems	8/30/15	Working with State of ND

- Rural Water option cost to be investigated

**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			64%
Clear and Grub	20%	152,076	148,346	3,730	98%
Subgrade	25%	152,076	126,931	25,145	83%
Place and Compact Road Base	30%	189,136	147,897	41,239	78%
Shoulders	15%		0		
Ditches	10%		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:

- Completed adjustment to T20 access road with Xcel and landowner – consistent with RFI;
- Road construction continues to advance to ensure foundation corridors are accessible for concrete construction;
- Subgrade stabilization requirements continue – moving forward with options of 6-inch minus without geogrid, geogrid with 16 inches of aggregate coverage, or layered geogrid consisting of 10 inches of aggregate between geogrid layers which then has 8 additional inches of aggregate to substantially complete the road;
  - Road crews re-trained regarding stabilization process and instructed to construct stabilized subgrade to the extent necessary in a localized area only.

### Foundations

Item	Weighted %	Budget	Total Completed	Total Remaining	Percent Complete
Excavations	10%	75	65	10	87%
Mud Mats	5%	75	61	14	81%
Bases	45%	75	54	21	72%
Pedestals	20%	75	53	22	71%
Backfilled	15%	75	46	29	61%
Vestas Ground Kit	5%	75	56	19	75%

**Foundation Progress**

**72%**



**Comments:**

- RES completing excavations, over-excavations, and fill of over-excavations with inspection by RRC to approve excavation subgrade for mud mats;
- Completed 5 excavations, 5 mud mats, 7 bases, 11 pedestals, and 4 backfills in the current period;
- Encountering continuous dewatering requirements at multiple foundation locations (T54, T53, T1, T4, T19); **also T10**
- Nelson actively pouring mud mats, building bolt cages, and setting rebar and pouring foundation bases and pedestals – targeting 8 to 10 foundations per week.

**Collection System**

Item	Weighted %	Quantity	Total Received	Total Remaining	Percent Complete
<b>Deliveries</b>	<b>30.0%</b>		<b>Deliveries</b>		<b>35%</b>
Grounding Transformers	10.0%	6	0	6	0.0%
MV Cable 3/0 AWG AL	15.0%	303,596	37,912	265,684	12%
MV Cable 350 Kcmil AL	7.5%	140,708	0	140,708	0.0%
MV Cable 750 Kcmil AL	15.0%	205,038	0	205,038	0.0%
MV Cable 1000 Kcmil AL	7.5%	88,167	33,458	54,709	38%
MV Cable 1250 Kcmil AL	20.0%	147,069	130,476	16,593	88%
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%		0		0.0%
Rubber Goods	5.0%		0		0.0%
<b>Installations</b>	<b>50.0%</b>		<b>Installations</b>		<b>5%</b>
Trench	60%	288,150	14,708	273,442	5%
MV & Fiber/Ground Cable	30%	288,150	21,290	266,860	7%
Grounding Transformers	5%		0		0.0%
Junction Boxes	5%		0		0.0%
<b>Terminations</b>	<b>20.0%</b>		<b>Terminations</b>		<b>0.0%</b>
Grounding Transformers	10.0%		0		0.0%
Junction Boxes	30.0%		0		0.0%
Turbine	60.0%		0		0.0%

**Collection System Progress: 13%**

**Comments:**

- Receiving MV cable;



- Directional drilling is working ahead of trenching and cable placement;
- Trenching operations have complete Circuit 5 homerun and are working on Circuit 2 homerun;
- Site Team working with Engineering to establish methodology for directional bore carrier infill.

### O&M Building

- **Working with Northern Plains to get single phase ran to building for temporary winter heating requirements until 3-phase power can be provided next spring;**
- **Comments from Nathan to Brad are pending submittal to RES;**
- Building footings have been poured – wall pours to be completed next week;
- Building was delivered on 9/11/14 - Construction will continue through the winter with a scheduled completion by end of December 2014.

### Substation

- Rosendin submittal of **90%** grading and foundation drawings planned for 10/**31**/14;
- Encountered a subgrade vein of organic material during excavation of MPT foundation – RES is removing fill to determine extent of vein and will remove organic material;
  - **As-built drawings will be provided to detail plan and section of aggregate placement**
- Foundation IFCs ~~expected by Wednesday, 10/29/2014~~ **will be completed after review of revised 90% by Xcel;**
  - Foundation construction to re-commence with placement of slurry backfill
  - ~~Rosendin to commence placement of 12 inch base aggregate~~
  - **Response to concrete and slurry submittal pending**

**Exhibit 1 – Site Photographs**



Border Winds - Trenching Operations



Border Winds - Employee Training



Border Winds - T19 Foundation Base Pour



Border Winds - T19 Foundation Concrete Sampling



Border Winds - O&M Building Grade Beams and Piers



Border Winds - O&M Building Footing Pour



Border Winds - Foundation Base Pour



Border Winds - Foundation Base Pour



## Exhibit 2 – Safety log

#	DATE	CLASS	CONTRACTOR	INCIDENT DETAILS	ACTION TAKEN TO CORRECT THE SITUATION	ACTION TAKEN TO PREVENT REOCCURANCE
413	10/18/2014	Safe Work Observation	RES Earth and Cable	Operator showed proper use of his machinery	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
414	10/18/2014	Safe Work Observation	RES Earth and Cable	Operator took precaution when backfilling around the pedestal	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
415	10/18/2014	Damage	RES Earth and Cable	A phone wire was severed in an area that was being trenched. There were no flags to show the existence of any utilities in the area. The phone company was contacted and they did confirm that the line was dead.	To communicate with the responsible utility that they failed to identify the cable in question, and that perhaps their procedures should seek to identify both active and abandoned cables in vicinity of digs.	Told the cable crew that they were not at fault and to continue utilizing the one-call number.
416	10/19/2014	Safe Work Observation	RES Earth and Cable	Operator properly directed traffic around his excavator when setting coverts	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
417	10/19/2014	Safe Work Observation	RES Earth and Cable	Operator took great precaution when backfilling over the coverts so to not damage them	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
418	10/19/2014	Safe Work Observation	Nelson Wind	Foreman showed great communication skills between himself and the rod busters as they were setting rebar in place	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
419	10/19/2014	Safe Work Observation	Nelson Wind	Operator got off his machine and did general housekeeping while waiting to transport rebar to the rod busters in the excavation	None, this was a safe observation	No action necessary due to the fact that the operator followed procedure and took the time to clean up the jobsite while waiting to use his crane
420	10/19/2014	Safe Work Observation	RES Earth and Cable	Employees added extra straps to load on trailer due to rough road conditions,	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
421	10/19/2014	Safe Work Observation	RES Earth and Cable	Before doing any work on trailer employees chocked trailer.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
422	10/19/2014	Safe Work Observation	RES Earth and Cable	An office employee before assisting with outside work donned all needed PPE for task she was about to undertake.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
423	10/19/2014	Safe Work Observation	RES Earth and Cable	When unloading spools of cable employees chocked the tractor trailer before any unloading.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
424	10/19/2014	Safe Work Observation	RES Earth and Cable	When backing equipment with spools of wire on the fork the operator used a ground guide.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
425	10/19/2014	Safe Work Observation	Nelson Wind	When starting a new task, task was added to the JHA.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
426	10/19/2014	Safe Work Observation	Nelson Wind	When using bolt cutters the employee donned all needed safety PPE for task.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
427	10/19/2014	Hazard Observation	Midwest Mobile	Vehicle operator did not have head lights on, when approached he turned them on.	Employee was reminded that they have to have vehicle lights on at all times when vehicles are operating on site.	Addressed in daily safety meeting
428	10/19/2014	Hazard Observation	Dolan Directional	Excavation crew failed to announce that they were moving an excavator north on 52nd ave.	Crew was addresses and informed that whenever moving equipment on roads they need to make everyone aware via radio.	Addressed in daily safety meeting
429	10/19/2014	Safe Work Observation	RES Americas	Section 3.10 was completed, all sections compliant.	Safety Inspection (Compliant)	Mentioned the good conditions in the next all hands meeting.
430	10/20/2014	Safe Work Observation	RES Americas	Section 3.12 was completed, all sections compliant.	Safety Inspection (Compliant)	Mentioned the good conditions in the next all hands meeting.
431	10/20/2014	Hazard Observation	RES Americas	Section 3.12 was completed all sections except section 8, "Proper storage temperature	Site Management has been made aware that this needs to be corrected and materials stored in approved container.	Site management was advised of the condition.



				and protection." was non-compliant. Materials are stored in a un regulated temperature connex.		
432	10/20/2014	Safe Work Observation	RES Earth and Cable	While off site getting fuel this employee was observed exiting a crew truck and before doing anything else donning safety glasses and high vis safety vest. Showing that the safety program fundamentals are ingrained in this individuals work practices	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
433	10/20/2014	Safe Work Observation	RES Earth and Cable	When vehicles approached this operator in a dozer. The operator stopped the equipment and grounded the blade for safe passing.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
434	10/20/2014	Safe Work Observation	RES Earth and Cable	Trencher crew had an individual walking with trencher as a ground guide and looking for hazards as it moved along its path.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
435	10/20/2014	Hazard Observation	RES Earth and Cable	The individual walking behind the trencher checking trench was too close to trench and needed to be over farther to avoid falling in or injury.	Employee was advised that even through the trench in not greater than 5ft he should maintain a safe distance in an effort to prevent slipping into the trench of collapsing soil.	Addressed in daily safety meeting
436	10/20/2014	Safe Work Observation	RES Earth and Cable	Operator set spoil piles 2 feet from the trench	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
437	10/20/2014	Safe Work Observation	RES Earth and Cable	Leadman had great communication with his workers as to safely pulling the cable wires	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
438	10/20/2014	Safe Work Observation	Nelson Wind	Operator took precaution when taking forms off of the pedestal	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
439	10/20/2014	Safe Work Observation	Nelson Wind	Employee picked up trash before leaving the site	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
440	10/20/2014	Safe Work Observation	Dolan Directional	Employee had on proper ppe when fusing pipes together	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
441	10/20/2014	Safe Work Observation	Dolan Directional	Employee chalked the wheels of the trailer before taking it off the hitch.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
442	10/20/2014	Safe Work Observation	RES Earth and Cable	Before backing in both drivers sounded vehicle horns indicating they were reversing.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
443	10/20/2014	Safe Work Observation	RES Earth and Cable	After parking the drivers of the vehicles got out and deployed cones to the front and rear of the vehicles.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
444	10/20/2014	Safe Work Observation	RES Earth and Cable	Crew working in the area placed crew truck away from main operation to avoid a hazard to equipment and trucks working in the area.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
445	10/20/2014	Safe Work Observation	RES Earth and Cable	Road grader operator maintained good control of the work site and operations taking place.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
446	10/20/2014	Hazard Observation	RES Earth and Cable	Crew truck did not have cones deployed in front and behind truck.	At next safety meeting all individuals will be addressed about adding cones around vehicles to JHA.	Addressed in daily safety meeting
447	10/20/2014	Safe Work Observation	Munroe Builders	All power cords being used were in service and compliant.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
448	10/20/2014	Safe Work Observation	Munroe Builders	All installed T-Posts were capped.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
449	10/20/2014	Safe Work Observation	Munroe Builders	Cement trucks were using a backer as they approached the pour site.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
450	10/20/2014	Hazard Observation	Munroe Builders	Three employees had hooded sweat shirt hoods on under	Supervisor was explained the OSHA policy and provided information regarding	Extra inspections will take place to ensure sub-contractor complies with procedures.



				their hard hats.	approved head liners.	
451	10/20/2014	Safe Work Observation	RES Earth and Cable	When an aggregate truck got stuck the Civil Foreman followed the new work instruction for rescuing vehicles and the vehicle was rescued without damage.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
452	10/20/2014	Safe Work Observation	RES Earth and Cable	The operator of the heavy equipment used proper placement and procedure to ensure that the equipment rescued did not experience any damage.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
453	10/20/2014	Safe Work Observation	RES Earth and Cable	Operator ensured vehicle was chocked before any materials were off loaded.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
454	10/20/2014	Safe Work Observation	RES Earth and Cable	Operator of front end loader followed procedure outlined in work instruction and made sure his forks were long enough to pick up the load.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
455	10/20/2014	Hazard Observation	RES Earth and Cable	Area that was directly in the unload area should have been coned off.	Individuals were given cones to block off the area.	Addressed in daily safety meeting.
456	10/20/2014	Safe Work Observation	RES Americas	Vehicle operator pulled off the side of the road and parked his vehicle before taking a phone call.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
457	10/21/2014	Safe Work Observation	Nelson Wind	Employee instructed trucks as to the location of the wash out area	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
458	10/21/2014	Safe Work Observation	Nelson Wind	Employee made sure boom from concrete pump was out of his way before he continued to vibrate the concrete	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
459	10/21/2014	Safe Work Observation	PCS	Employee used the proper tool when finishing concrete	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
460	10/21/2014	Hazard Observation	PCS	Employee was not wearing gloves when he went to continue finishing concrete	Individual was addressed as to wearing glove during any type of work activity	Will be mentioned in the next all hands meeting
461	10/21/2014	Safe Work Observation	RES Earth and Cable	Operator knew the exact location of the JHA, Spill Kit, and first aid kit on his jobsite	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
462	10/21/2014	Safe Work Observation	RES Earth and Cable	Operator set up barricade when the crew was going to take a break	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
463	10/21/2014	Near Miss	Pinky's Aggregate	An aggregate truck made contact with a smooth drum roller with the trucks tire causing a scuff mark on the smooth drum rollers tire	Truck driver was addressed on using better observational awareness on the construction site	Issue was addressed to the contractors supervisor about observational awareness and will be brought up in the next all hands meeting
464	10/22/2014	Safe Work Observation	Building and Earth	Employee used proper lifting technique when transferring concrete cylinders into the ice chests	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
465	10/22/2014	Safe Work Observation	Nelson Wind	Employee made sure all trash and debris was picked up before pour commenced	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
466	10/22/2014	Safe Work Observation	Nelson Wind	Employee helped coworker set up the vibro-pack on his shoulders	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
467	10/23/2014	Safe Work Observation	RES Earth and Cable	Foreman wore all PPE needed for the tasks she was undertaking.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
468	10/23/2014	Safe Work Observation	RES Earth and Cable	Foreman parked vehicle off to the edge of the site when arriving on site.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
469	10/23/2014	Safe Work Observation	RES Earth and Cable	Foreman made sure she had eye contact with all equipment operators onsite working before starting any	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.



				work		
470	10/23/2014	Safe Work Observation	RES Earth and Cable	Foreman use proper hand tools when fixing a grease gun.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
471	10/23/2014	Safe Work Observation	RES Earth and Cable	Crew lead controlled the site well ensuring equipment placement and operations didn't pose a risk to one another.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
472	10/23/2014	Safe Work Observation	RES Earth and Cable	Crew truck was parked out of the site work area and had cones deployed.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
473	10/23/2014	Hazard Observation	RES Earth and Cable	Individuals didn't know where the JHA was and had to go find it. (Site 48)	Individuals were instructed to stop work and find the JHA and present it to Safety before any other work could continue.	Addressed in daily safety meeting
474	10/23/2014	Hazard Observation	RES Earth and Cable	Individuals didn't know where the JHA was and had to go find it. (site 51)	Individuals were instructed to stop work and find the JHA and present it to Safety before any other work could continue.	Addressed in daily safety meeting
475	10/23/2014	Near Miss	RES Earth and Cable	Maintainer operator had cab door open while operating equipment.	Operator was stopped where he was working and explained the risks of having the door open while operating.	Addressed in daily safety meeting
476	10/24/2014	Safe Work Observation	Munroe Builders	All rebar and t-posts had caps on the exposed end.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
477	10/24/2014	Safe Work Observation	Munroe Builders	All vehicles were placed away from excavation site.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
478	10/24/2014	Safe Work Observation	Munroe Builders	Excavation site was barricaded off preventing unauthorized entrance.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
479	10/24/2014	Safe Work Observation	Munroe Builders	All employees donned proper PPE for the task being conducted.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
480	10/24/2014	Safe Work Observation	RES Earth and Cable	Crew truck positioned outside of work area.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
481	10/24/2014	Safe Work Observation	RES Earth and Cable	Operators positioned equipment and movements to avoid contact with each other.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
482	10/24/2014	Safe Work Observation	RES Earth and Cable	Individual using hand tools had on gloves.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
483	10/24/2014	Safe Work Observation	RES Earth and Cable	All personnel wore correct PPE for task being conducted. (Hardhat, Vi Vis, Eye Protection, Safety Shoes.)	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
484	10/24/2014	Hazard Observation	RES Earth and Cable	Crew truck needed to have cones deployed.	Individuals were informed about the importance of deploying cones when parking vehicles on site.	Addressed in daily safety meeting
485	10/24/2014	Hazard Observation	RES Earth and Cable	Walking on uneven, compacted spoil pile was not on JHA.	Task was added to JHA and individuals discussed the activity to make everyone aware of the hazards associated with the task.	Addressed in daily safety meeting
486	10/24/2014	Safe Work Observation	Nelson Wind	Belt truck set up safe distance from excavation site, with cones and rope setup around it.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
487	10/24/2014	Safe Work Observation	Nelson Wind	One employee helped another put on vibrator back pack.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
488	10/24/2014	Safe Work Observation	RES Earth and Cable	Equipment kept safe distance from excavation site and other trucks at the site.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
489	10/24/2014	Safe Work Observation	RES Earth and Cable	All operators observed using 3 points of contact when getting on/off equipment.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
490	10/24/2014	Safe Work Observation	Nelson Wind	Using multiple persons to lift rebar.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
491	10/24/2014	Safe Work Observation	Nelson Wind	Good use of tag lines and communication of overhead lines.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
492	10/24/2014	Safe Work Observation	Munroe Builders	Driver of truck with a pallet of water in the bed of the truck reduced speed to drive safely with cargo.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
493	10/24/2014	Safe Work Observation	Munroe Builders	With reduce visibility due to dust the vehicle operator stopped to allow dust to clear	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.



				ahead of vehicle.		
494	10/24/2014	Safe Work Observation	RES Earth and Cable	Culverts were strapped to the trailer to ensure safe cargo handling while driving.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
495	10/24/2014	Safe Work Observation	RES Earth and Cable	Employees used cut resistant gloves to load culverts on trailer.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
496	10/24/2014	Safe Work Observation	RES Earth and Cable	Admin 1 had all PPE on hand and in office if needed for a task outside of the office	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
497	10/24/2014	Hazard Observation	RES Earth and Cable	Admin 2 did not have Hi Vis vest for use.	Employee was provided a Hi Vis vest for use and asked to keep it available in the office for use if a task started where she needed to have the vest.	The office employee was provided PPE and educated as to why PPE is needed in the field.

### Exhibit 3 – Environmental Log

#	CLASS	SUB_CAT	CONTRACTOR	DATE	INCIDENT DETAILS	ACTION TAKEN TO CORRECT SITUATION	ACTION TAKEN TO PREVENT REOCCURANCE
46	20-Oct-14	Observation	All	10/20/2014	Safety supervisor an unidentified large bird on the north side of the project near T30 & T32.	Informed the HSQE manager. Advised to notify and take pictures of the bird if seen again.	Advised to take pictures of the any wildlife which may be under protected species so that it can be identified properly
47	22-Oct-14	Observation	All	10/22/2014	Bottles and aluminum cans are starting to become more frequent on site.	Addressed the crews at all hands about the housekeeping issue. Ensure clean work site at the end of the day.	
48	24-Oct-14	Minor Incident (Below RQ)	RED	10/23/2014	Antifreeze leak from the smooth drum roller due to a tear in the hose while operating at the substation.	The roller was put out of operation until the line was replaced. The spoil was collected and disposed in the special waste bin on site.	Advised to inspect the equipment every morning.

### Exhibit 4 – Quality Log

- Incidents - None
- CPARs - None
- NCRs - Two by Xcel



**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	2	1	2	2
NCR-2014-026, TX 5 geogrid placement		X		
NCR-2014-34, topsoil beneath subgrade fill material at the substation	X			
NCR-2014-35, placement of concrete with standing water on the mud mat at T48	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	
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	
4	Roads, Culverts	105 <sup>th</sup> 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	



## 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	3/10/2014
23053-02	Kyler Leen	RES	Chris Ayika	Xcel Energy - Transmission	Allowable Voltage Step Change	3/31/2014	4/4/2014	Electrical	5/1/2014
23053-03	Kyler Leen	RES	Chris Ayika	Xcel Energy - Transmission	Grid Voltage Profile	3/31/2014	4/4/2014	Electrical	5/1/2014
23053-04	Kyler Leen	RES	Bradley Morrison	Xcel Energy - Generation	Main Power Transformer Design	3/31/2014	4/4/2014	Electrical	4/21/2014
23053-05	Bob Tepp	RES	Ritchie Farmer	Vestas	Draka 35kV, 3x70mm <sup>2</sup> Down-Tower Cable Data	7/16/2014	7/18/2014	Electrical	7/23/2014
23053-06	David Calitz	RES	Bradley Morrison	Xcel Energy - Generation	Substation Capacitor Bank Configurations	7/31/2014	8/4/2014	Electrical	8/5/2014
23053-07	Kyler Leen	RES	Chris Ayika	Xcel Energy - Transmission	VAR Neutrality	8/5/2014	8/8/2014	Electrical	10/17/2014
23053-08	Bob Tepp	RES	Bradley Morrison	Xcel Energy - Generation	T58 Access Road Entrance Culvert Removal	8/13/2014	8/15/2014	Civil	8/14/2014
23053-09	Bob Tepp	RES	Bradley Morrison	Xcel Energy - Generation	Access Road Adjustment to T72 and T74	8/18/2014	8/20/2014	Civil	
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	
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	
23053-12	Bob Tepp	RES	Bradley Morrison	Xcel Energy - Generation	Access Road Adjustment to T31 and T32	8/18/2014	8/21/2014	Civil	
23053-13	Bob Tepp	RES	Bradley Morrison	Xcel Energy - Generation	Access Road Adjustment to T26	8/18/2014	8/21/2014	Civil	
23053-14	Bob Tepp	RES	Bradley Morrison	Xcel Energy - Generation	Access Road Adjustment to T22	8/18/2014	8/21/2014	Civil	8/28/2014
23053-15	Julio Lima	RES	Chris Ayika	Xcel Energy - Transmission	Peace Garden dead end structures GPS coordinates	8/21/2014	8/25/2014	Electrical	8/25/2014
23053-16	Kyler Leen	RES	Chris Ayika	Xcel Energy - Transmission	Dynamic Reactive Power Inputs	9/9/2014	9/16/2014	Electrical	
23053-17	Kyler Leen	RES	Richard Farmer	Vestas	WTG Conduit Type and Location	9/24/2014	10/1/2014	Electrical	10/3/2014
23053-18	David Calitz	RES	Bradley Morrison	Xcel Energy - Generation	HV and MV disconnect switch requirements	9/26/2014	10/3/2014	Electrical	
23053-19	Shabeeb Abdul Khader	RES	Bradley Morrison	Xcel Energy - Generation	Use aggregate from Marcel Pit	9/29/2014	10/1/2014	Civil	10/6/2014
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	
23053-21	Shabeeb Abdul Khader	RES	Bradley Morrison	Xcel Energy - Generation	Substation Foundation	10/8/2014	10/10/2014	Civil	10/9/2014
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	10/16/2014
23053-23	Shabeeb Abdul Khader	RES	Bradley Morrison	Xcel Energy - Generation	Access road adjustments to T33/34	10/13/2014	10/20/2014	Civil	10/16/2014
23053-24	Shabeeb Abdul Khader	RES	Bradley Morrison	Xcel Energy - Generation	Access road adjustments to T26	10/14/2014	10/21/2014	Civil	10/16/2014
23053-25	Aaron Thooft	RES	Bradley Morrison	Xcel Energy - Generation	Collector System - Circuit 5 route - realignment	10/15/2014	10/22/2014	Electrical	
23053-26	Roark Lanning	RES	Richard Farmer	Vestas	WTG Installation Manuals for the Mk7H and Mk10 V100-2.0 VCSS turbines	41928	41933	Electrical	

# Exhibit 6 – Three Week Look Ahead



ID	Task Name	Duration	Start	Finish	% Complete	2014				
						H2	H1	H2	H1	H1
1	<b>Border Wind Farm - Construction Schedule - 150MW</b>	631.75 days	Wed 7/31/13	Thu 12/31/15	33%					
10	<b>Design &amp; Engineering</b>	368.75 days	Wed 1/15/14	Mon 6/15/15	37%					
44	<b>Procurement - Long Lead Items</b>	314.75 days	Tue 4/1/14	Mon 6/15/15	31%					
48	<b>Grounding Transformers</b>	251.75 days	Fri 6/27/14	Mon 6/15/15	0%					
49	Grounding Transformers (6 Units)	251.75 days	Fri 6/27/14	Mon 6/15/15	0%					
50	<b>34.5kV MV Collection System - Procurement</b>	90.75 days	Fri 6/27/14	Fri 10/31/14	41%					
51	MV Cable	90.75 days	Fri 6/27/14	Fri 10/31/14	25%					
53	Underground Fiber - X LF	90.75 days	Fri 6/27/14	Fri 10/31/14	100%					
54	Cable Accessories	90.75 days	Fri 6/27/14	Fri 10/31/14	0%					
55	Rubber Goods	90.75 days	Fri 6/27/14	Fri 10/31/14	0%					
56	<b>Substation - Procurement</b>	251.75 days	Fri 6/27/14	Mon 6/15/15	7%					
57	Main Transformer	41.96 wks	Fri 6/27/14	Mon 6/15/15	0%					
64	<b>Construction</b>	346.75 days	Tue 7/1/14	Wed 10/28/15	72%					
65	<b>Civil Works</b>	346.75 days	Tue 7/1/14	Wed 10/28/15	82%					
67	<b>Civil Construction - Roads</b>	103.75 days	Tue 7/8/14	Fri 11/28/14	82%					
68	<b>Clearing &amp; Grubbing</b>	78.75 days	Thu 7/17/14	Tue 11/4/14	97%					
84	Tower 7 to 11 (5 WTGs) (CKT 4)	5 days	Thu 10/16/14	Thu 10/23/14	100%					
85	Tower 4 to 6 (3 WTGs) (CKT 3)	1.5 days	Thu 10/23/14	Fri 10/24/14	100%					
96	Tower 12 to 14 (3 WTGs) (CKT 3)	2 days	Fri 10/24/14	Tue 10/28/14	100%					
93	<b>Public Road Upgrades</b>	99.75 days	Mon 7/14/14	Fri 11/28/14	85%					
94	Upgrade Public Roads	99.75 days	Mon 7/14/14	Fri 11/28/14	85%					
95	<b>Site Roads Installation</b>	90.67 days	Thu 7/17/14	Thu 11/20/14	74%					
136	Tower 21 to 25 (5 WTGs) (Road H, J, K) - 17,580 LF	24.5 days	Wed 9/24/14	Wed 10/23/14	100%					
138	Rough Grade Preparation	9 days	Tue 10/14/14	Mon 10/27/14	100%					
139	Install Base Material	9 days	Thu 10/16/14	Wed 10/29/14	100%					
140	Tower 38 to 39 (2 WTGs) (Road Q) - 2,060 LF	18 days	Mon 10/6/14	Thu 10/30/14	100%					
142	Rough Grade Preparation	1 day	Mon 10/27/14	Tue 10/28/14	100%					
143	Install Base Material	1 day	Wed 10/29/14	Thu 10/30/14	100%					
144	Tower 35 to 37 (2 WTGs) (Road Q) - 4,000 LF	17 days	Thu 10/9/14	Mon 11/3/14	0%					
148	Rough Grade Preparation	2 days	Tue 10/28/14	Thu 10/30/14	0%					
147	Install Base Material	2 days	Thu 10/30/14	Mon 11/3/14	0%					
148	Tower 33,34 (2 WTGs) (Road E) - 2,050 LF	15 days	Tue 10/14/14	Tue 11/4/14	11%					
150	Rough Grade Preparation	1 day	Thu 10/30/14	Fri 10/31/14	0%					
151	Install Base Material	1 day	Mon 11/3/14	Tue 11/4/14	0%					
152	Tower 15 to 20 (6 WTGs) (Road G, H) - 11,910 LF	18.83 days	Wed 10/15/14	Tue 11/11/14	20%					
153	Install Road - Entrance	3 days	Wed 10/15/14	Mon 10/20/14	50%					
154	Rough Grade Preparation	6 days	Fri 10/31/14	Mon 11/10/14	25%					
155	Install Base Material	6 days	Mon 11/3/14	Tue 11/11/14	0%					
156	Tower 7 to 11 (5 WTGs) (Road B, C) - 9,910 LF	20.83 days	Mon 10/20/14	Tue 11/18/14	0%					
157	Install Road - Entrance	4.5 days	Mon 10/20/14	Mon 10/27/14	0%					
158	Rough Grade Preparation	5 days	Mon 11/10/14	Mon 11/17/14	0%					
159	Install Base Material	5 days	Tue 11/11/14	Tue 11/18/14	0%					
160	Tower 4 to 6 (3 WTGs) (Road B) - 2,780 LF	13.58 days	Mon 11/3/14	Thu 11/20/14	0%					
161	Install Road - Entrance	4.5 days	Mon 11/3/14	Fri 11/7/14	0%					
162	Rough Grade Preparation	1.5 days	Mon 11/17/14	Tue 11/18/14	0%					
164	Tower 12 to 14 (3 WTGs) (Road F) - 4,030 LF	10.41 days	Fri 11/7/14	Fri 11/21/14	0%					
165	Install Road - Entrance	3 days	Fri 11/7/14	Wed 11/12/14	0%					
170	<b>Turbine Foundation</b>	262.75 days	Fri 7/18/14	Tue 7/21/15	60%					
171	<b>Foundation Construction</b>	96 days	Mon 7/21/14	Tue 12/2/14	70%					
173	Deliver Turbine Foundation Materials	65.75 days	Thu 8/7/14	Fri 11/7/14	50%					
247	<b>Foundations - Tower 33 to 34 (2 WTGs)</b>	5 days	Wed 10/15/14	Wed 10/22/14	0%					
249	Excavate	1 day	Thu 10/16/14	Fri 10/17/14	0%					
250	Install Forms, Bot Cage, Rebar & Pour Base	1.5 days	Fri 10/17/14	Tue 10/21/14	0%					
251	Install Forms, Rebar & Pour Pedestal	1.5 days	Mon 10/20/14	Wed 10/22/14	0%					
252	Backfill	1 day	Tue 10/21/14	Wed 10/22/14	0%					
253	<b>Foundations - Tower 15 to 20 (6 WTGs)</b>	7.5 days	Thu 10/16/14	Tue 10/28/14	31%					
254	Strip Top Soil & Level Pad Sites	3 days	Thu 10/16/14	Tue 10/21/14	70%					
255	Excavate	3 days	Fri 10/17/14	Wed 10/22/14	70%					
256	Install Forms, Bot Cage, Rebar & Pour Base	3.5 days	Tue 10/21/14	Fri 10/24/14	20%					
257	Install Forms, Rebar & Pour Pedestal	3.5 days	Wed 10/22/14	Mon 10/27/14	0%					
258	Backfill	3 days	Thu 10/23/14	Tue 10/28/14	0%					
259	<b>Foundations - Tower 7 to 11 (5 WTGs)</b>	7.5 days	Tue 10/21/14	Fri 10/31/14	19%					
260	Strip Top Soil & Level Pad Sites	2.5 days	Tue 10/21/14	Fri 10/24/14	40%					
261	Excavate	2.5 days	Wed 10/22/14	Mon 10/27/14	40%					
262	Install Forms, Bot Cage, Rebar & Pour Base	3 days	Fri 10/24/14	Wed 10/29/14	20%					
263	Install Forms, Rebar & Pour Pedestal	3 days	Mon 10/27/14	Thu 10/30/14	0%					
264	Backfill	2.5 days	Tue 10/28/14	Fri 10/31/14	0%					
265	<b>Foundations - Tower 4 to 6 (3 WTGs)</b>	7 days	Fri 10/24/14	Tue 11/4/14	27%					
266	Strip Top Soil & Level Pad Sites	1.5 days	Fri 10/24/14	Mon 10/27/14	33%					
267	Excavate	1.5 days	Mon 10/27/14	Tue 10/28/14	33%					
268	Install Forms, Bot Cage, Rebar & Pour Base	2 days	Wed 10/29/14	Fri 10/31/14	33%					
269	Install Forms, Rebar & Pour Pedestal	2 days	Thu 10/30/14	Mon 11/3/14	33%					
270	Backfill	1.5 days	Fri 10/31/14	Tue 11/4/14	0%					
305	<b>Electrical Installation</b>	219.75 days	Tue 9/2/14	Mon 7/6/15	7%					
306	<b>34.5kV Underground Collection System</b>	219.75 days	Tue 9/2/14	Mon 7/6/15	7%					
309	<b>34.5kV Underground Collection System Installation</b>	219.75 days	Tue 9/2/14	Mon 7/6/15	7%					
312	Circuit 2 Home Run (Substation-JB2/1-JB2/5)	10 days	Tue 10/14/14	Tue 10/28/14	50%					
313	Circuit 3 Home Run (Substation-JB3/1-JB3/3)	7.5 days	Tue 10/28/14	Fri 11/7/14	0%					
314	Circuit 4 Home Run (Substation-JB4/1-JB4/2)	6 days	Fri 11/7/14	Mon 11/17/14	0%					
315	Circuit 5 Home Run (Substation-JB5/1)	2 days	Mon 11/17/14	Wed 11/19/14	90%					
330	<b>Substation Installation</b>	213.8 days	Wed 10/1/14	Mon 7/27/15	1%					
331	<b>Substation Procurement</b>	184.8 days	Wed 10/1/14	Tue 6/16/15	0%					
332	230 KV Breaker	19 wks	Wed 10/1/14	Tue 3/10/15	0%					
333	Manufacture 34.5 KV Circuit Breakers	26 wks	Wed 10/1/14	Mon 5/25/15	0%					
334	Manufacture 230KV Switches	20 wks	Wed 10/1/14	Wed 3/18/15	0%					
335	Manufacture 34.5 KV Switches	20 days	Wed 10/1/14	Wed 10/29/14	0%					
337	Manufacture and Deliver Control Building	20 wks	Wed 10/1/14	Wed 3/18/15	0%					
338	<b>Substation Construction</b>	213.85 days	Wed 10/1/14	Mon 7/27/15	8%					
340	Below Grade Conduit & Grounding	11 days	Thu 10/23/14	Fri 11/7/14	0%					
341	Foundation Works	15 days	Fri 11/7/14	Fri 11/29/14	10%					
354	<b>Communications &amp; Backup Power</b>	86.67 days	Wed 10/1/14	Thu 1/29/15	0%					
355	Design & Order T1 & POTS lines	3.2 mons	Wed 10/1/14	Wed 12/1/15	0%					
357	Design & Order Backup Power for Control Building	3.2 mons	Wed 10/1/14	Wed 12/1/15	0%					
361	<b>O&amp;M Building Installation</b>	76 days	Mon 9/15/14	Tue 12/30/14	17%					
363	Install Conduits & Pour Foundation	28 days	Mon 9/29/14	Thu 11/6/14	25%					
364	Erect Building	20 days	Thu 11/6/14	Thu 12/4/14	0%					
366	<b>Met Instrumentation Installation</b>	297.75 days	Mon 8/11/14	Wed 9/30/15	4%					
367	Procure, Manufacture & Deliver to Site	36 wks	Fri 8/15/14	Mon 6/15/15	0%					



**Border Winds Energy**  
**Agenda of Conference Call 20141106**

Name	Present	Organization	Name	Present	Organization
Bob Tepp (BT)		RES	Brad Morrison (BMo)		Xcel
Larry Clark (LC)		RES	Zach Smith (ZS)		Xcel
Brian Christiansen		RES	Nathan Svboda (NS)		Xcel
Shabeeb Khader		RES	Tony Mallizzio (TM)		Xcel
George Protz		RES	Paul Logan (PL)		Xcel
Brandon Rhine		RES	Michael O'Brien (MO)		Xcel
Lester Archer		RES	Doug Harthun		Xcel
Tim Mapp		RES			
Martin Macias		RES			
Fred Lillie		RES			
Chris Hills (CH)		RES			
Kenny Knecht (KK)		RES			
Julio Lima (JL)		RES			
David Calitz (DC)		RES			
Kyler Leen (KL)		RES			
Mohamed Nofal (MN)		RES			
Jomaa Ben-Hassine (JBH)		RES			
Ryan Burris (RB)		RES			
Steve Keuter		RES			
Steve Wichern		RES			
Sean Flannery		RES			
Brad Lila		RES			
Ben Cass		RES			
Jenny Bredt (JB)		RES			



1. Safety Review:

- a. Current Site Safety Index:
- b. Current TRIR:
- c. Completed \_\_\_ days onsite and \_\_\_ man hours
- d. Completed \_\_\_ orientations in the current period and \_\_\_ project to date
- e. Lost time injuries: \_\_\_ in week, \_\_\_ PTD
- f. Recordable injuries: \_\_\_ in week, \_\_\_ PTD
- g. First Aids: \_\_\_ in week, \_\_\_ PTD
- h. Property Damage: \_\_\_ in week, \_\_\_ PTD
- i. Near Misses: \_\_\_ in week, \_\_\_ PTD
- j. 3X20 Observations: \_\_\_ in week, \_\_\_ PTD

2. Review of Weekly Report

3. Review of Project Schedule



## BORDER WINDS ENERGY PROJECT WEEKLY PROJECT REPORT

Weekly report no:	16
Report for week period ending COB Friday:	10/31/14
Calendar week no:	44

### Executive Summary

#### This Week's Highlights

- Completed construction of 146,865 LF out of 174,409 LF of access road geogrid and aggregate placement project to date – 84% complete;
- Completed six (6) excavations for a total of 70 of 75 sites to date – 93%;
- Poured six (6) mud mats for a total of 67 of 75 sites to date – 89%
- Poured nine (9) bases for a total of 63 of 75 foundation bases project to date – 84% complete;
- Poured four (4) pedestals for a total of 55 of 75 foundation pedestals project to date – 73% complete;
- Backfilled six (6) foundations for a total of 36 of 75 foundations project to date – 48% complete;
- Trenched and backfilled 19,877 LF of Collection System to date - 7% complete;
- Placed 26,724 LF of MV cable to date (includes pulls through bores) – 9% complete.

#### This Week's Key Issues

- Site incurred Lost Time Accident when REC cable crew employee injured back while trying to move large rock from edge of trench ahead of backfill operations;
- Received NCR-2014-37 for T49 base not completely covered during cold weather – demonstrated strength was not impacted and responded to NCR;
- Received NCR-2014-38 for grounding installation on T3 foundation – submitted TEF to Vestas, working with Electrical Engineering to develop response;
- Working with Rosendin on substation design with 90% civil design pending– need to achieve IFC status for foundation pours.



**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	1	0	0	1	1	35
Project To Date	1	0	8	12	24	259

**TRIR = 1.95**

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

**RES Safety Index = +1.11**

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

**Week's Highlights:**

- Crew has demonstrated excellent communication of jobsite and local traffic via radio system;
- Border Winds team for American Cancer Society No-Shave November reached goal of \$1,000.00.

**Week's Issues:**

- Lost Time Accident occurred when REC cable crew employee injuring back when attempting to move large rock from edge of trench;
- .

**Project Work Hours:**

- Weekly Man-hours: 10,499
- PTD Man-hours: 102,571



## 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	1	0	0
Project to Date	0	37	3	9

Rolling Incident Score: **1.51**

### Week's Highlights:

- Recycling bins for metal, plastic, wood and cardboard are setup on the laydown yard.

### Week's Issues:

- Personnel from USFWS visited the T8 entrance location to check the area between the culvert inlet and the adjacent USFWS wetland. RES to backfill a portion of the ditch to pre-existing conditions;
- Approximately 1 cup of oil leak from a rebar delivery truck at T4 access road. The contaminated spoil was collected for disposal.

## Quality

\*Full description of week's Quality Report can be found in Exhibit 3

	NCRs			Incidents			CPARs		
	Issued	Open	Closed	Issued	Open	Closed	Issued	Open	Closed
Weekly	2	2	0	0	0	0	0	0	0
Total	6	4	2	0	0	0	0	0	0

### Week's Highlights:

- Successfully diverted water from foundation subgrade at T6 and placed mud mat;



- Implemented light plants in order to complete excavations and mud mats at T35, 36, and 37;
- Completed backfill of 9 WTG foundations;
- Started pilot program of using electronic tablets for QC data tracking;
- On-going - Sieve testing, material proctor, compaction testing, proof rolling, visual inspections for organics in the subgrade, concrete breaks, and turbine foundation backfills;
- On-going – Monitor the placement of concrete for mud mats, turbine bases, and turbine pedestals;
- 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. Any issues are documented and resolved.

#### **Work Area Inspections conducted:**

- Inspected foundation subgrades for T5, T8, T9, T15, and T16 – Acceptable for mud mat;
- Inspection of reinforcing steel for T5, T8, T19, T22, T23, T9, T15, T16, T20, and T24 – Acceptable for concrete placement;
- Monitored turbine base concrete placement for T5, T8, T19, T22, T23, and T24;
- Monitored turbine pedestal concrete placement for T2, T3, T5, T12, T13, T14, T19, T21, T22, T23, and T24;
- Inspection of back fills for T77, T78, T79, T8, T20, and T80 – Acceptable for back fill;
- Inspected Substation subgrade and density checks, all densities tests passed;
- Inspected rebar placement for O&M Building;
- Inspected culvert installations on access roads, T8 and T15 - Acceptable for installation;
- Discovered missing grounding clamp at T54. Contractor was notified and clamp was placed;
- Observed rebar splicing on bottom mat at T54 to be loose. Contractor was notified and the issue was addressed;
- Anchor bolt sleeves at T17 were too short. Contractor taped them in order to achieve concrete placement approval.

#### **Week's Issues through 10/31/2014:**

- Submitted plan for trenching across new access roads for cable installation - Approved by EOR.
- Submitted plan for adding accelerating admixture to mud mat concrete mix - Verbally approved by EOR.



- Submitted plan for adding accelerating admixture to base structure concrete mix - Awaiting EOR response;
- Submitted plan for repair of damaged concrete - Approved by EOR
- Submitted response for NCR-2014-034 to Xcel - Awaiting approval for closure.
- Submitted response for NCR-2014-037 to Xcel - Awaiting approval for closure.
- There were two NCR's issued this week
  - NCR-2014-37, T49 was not properly covered for cold weather conditions. Submitted response to Xcel.
  - NCR-2014-38, Grounding at T3 installed incorrectly.

**Schedule Status**

Project duration	68
No. of weeks into contract	18
Contract time passed (%)	25 %

Key Activities (Construction)	Weighted %	Percent Complete		
		Contract Schedule	Construction Schedule	Actual
Design Engineering	2.5%	100%	100%	100%
Roads and Crane Pads	20%	66%	66%	69%
Foundations	20%	83%	83%	78%
Collection System	20%	41%	28%	14%
Substation	10%	37%	25%	13%
WTG Delivery, Erection, MCC	20%	0%	0%	0%
O&M Building	5%	35%	30%	11%
Completion	2.5%	0%	0%	0%
Overall Actual Percent Complete				36%

**Progress Report**

**Permit Status**

Permit Type / Description	County / State	Responsible Group	Date Needed By	Status
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O&M Well Permit	ND State	AB Systems	8/30/15	Pending submittal
O&M Septic Permit	ND State	AB Systems	8/30/15	Working with ND State HD

### 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	138,426	14,411	91%
Place and Compact Road Base	30%	207,469	178,545	28,924	86%
Shoulders	15%		0		
Ditches	10%		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:

- Completed clearing and grubbing for access roads;
- Road construction continues to advance to ensure foundation corridors are accessible for concrete construction;
- Subgrade stabilization requirements continue – moving forward with options of 6-inch minus without geogrid, geogrid with 16 inches of aggregate coverage, or layered geogrid consisting of 10 inches of aggregate between geogrid layers which then has 8 additional inches of aggregate to substantially complete the road;
  - Road crews re-trained regarding stabilization process and instructed to construct stabilized subgrade to the extent necessary in a localized area only.



## Foundations

Item	Weighted %	Budget	Total Completed	Total Remaining	Percent Complete
Excavations	10%	75	70	5	93%
Mud Mats	5%	75	67	8	89%
Bases	45%	75	63	12	84%
Pedestals	20%	75	55	20	73%
Backfilled	15%	75	36	39	48%
Vestas Ground Kit	5%	75	66	9	88%

**Foundation Progress      78%**

### Comments:

- RES completing excavations, over-excavations, and fill of over-excavations with inspection by RRC to approve excavation subgrade for mud mats;
- Completed 6 excavations, 6 mud mats, 9 bases, 4 pedestals, and 6 backfills in the current period;
- Encountering continuous dewatering requirements at multiple foundation locations (T1, T4, T10) installing French drain system at T4;
- Nelson actively pouring mud mats, building bolt cages, and setting rebar and pouring foundation bases and pedestals – targeting 8 to 10 foundations per week.

## Collection System

Item	Weighted %	Quantity	Total Received	Total Remaining	Percent Complete
<b>Deliveries</b>		<b>30.0%</b>	<b>Deliveries</b>		<b>35%</b>
Grounding Transformers	10.0%	6	0	6	0.0%
MV Cable 3/0 AWG AL	15.0%	303,596	37,912	265,684	12%
MV Cable 350 Kcmil AL	7.5%	140,708	0	140,708	0.0%
MV Cable 750 Kcmil AL	15.0%	205,038	0	205,038	0.0%
MV Cable 1000 Kcmil AL	7.5%	88,167	90,485	0	100%
MV Cable 1250 Kcmil AL	20.0%	147,069	130,476	16,593	88%
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%	100	0	100	0.0%
<b>Installations</b>		<b>50.0%</b>	<b>Installations</b>		<b>5%</b>
Trench	60%	288,150	19,877	268,273	7%
MV & Fiber/Ground Cable	30%	288,150	26,724	261,426	9%



Grounding Transformers	5%	6	0	6	0.0%
Junction Boxes	5%	25	0	25	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%	25	0	25	0.0%
Turbines	60.0%	75	0	75	0.0%

**Collection System Progress: 13%**

**Comments:**

- Receiving MV cable;
- Directional boring crew is working ahead of trenching and cable placement, installing Circuit 4 bores;
- Trenching operations have completed placement of Circuit 5 homerun and are working on Circuit 2 and Circuit 3 homeruns;
- Site Team working with Engineering to establish methodology for directional bore carrier infill.

**O&M Building**

Activity Description	Required	Unit	To Date Total	Remains	% Comp.
Earthworks	100	%	75	25	75%
Foundation	100	%	62	38	62%
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%



Storage Shed	100	%	0	100	0%
Fence and Drum Storage	100	%	0	100	0%
Yard Rock	100	%	0	100	0%

- Building footings have been poured – walls are formed for pours to be completed next week;
- AB Systems/Munroe Contractors corrected issue with spacing of uprights in wall support steel;
- Building was delivered on 9/11/14 - Construction will continue through the winter with a scheduled completion by end of December 2014.

### Substation

Item	Required	Total Completed	Total Remaining	Percent Complete
<b>Design</b>	<b>Design</b>			
Design Drawings	100	60	40	60.0%
<b>Deliveries</b>	<b>Deliveries</b>			
Structural Steel	100	0	100	0.0%
Main Transformer	100	0	100	0.0%
Control House	100	0	100	0.0%
Relay Panel	100	0	100	0.0%
Arrestors	100	0	100	0.0%
Switches	100	0	100	0.0%
Breakers	100	0	100	0.0%
<b>Construction</b>	<b>Construction</b>			
Grading & Drainage	100	90	10	90.0%
Foundations	100	10	90	10.0%
Underground/Grounding	100	0	100	0.0%
Structural Steel Work	100	0	100	0.0%
Equipment Installation	100	0	100	0.0%
Control Building/Wiring	100	0	100	0.0%
Transformer Fit Out	100	0	100	0.0%
Commission	100	0	100	0.0%
Fence, Gravel, & Clean Up	100	0	100	0.0%

- Rosendin submittal of 90% civil design is pending;



- Substation pad is near complete;
- Rosendin is expected onsite on 11/4/14.

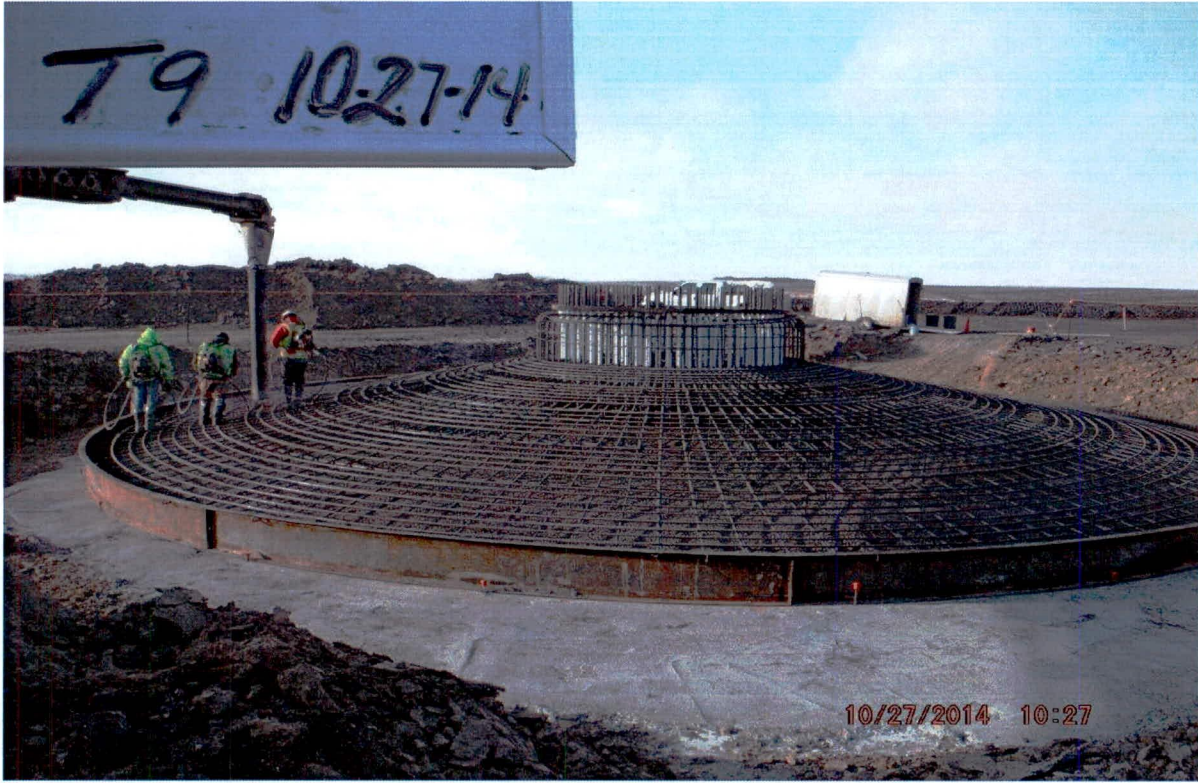
**Exhibit 1 – Site Photographs**



Border Winds – Clean up at T4 Access Road



Border Winds – T4 Excavation With Sump



Border Winds - T9 Foundation Base Pour



Border Winds - T16 Foundation Base Pour



Border Winds – O&M Forming For Wall Pour



Border Winds – Schmidt Hammer Testing T49 Cylinders



## Exhibit 2 – Safety log

#	DATE	CLASS	CONTRACTOR	INCIDENT DETAILS	ACTION TAKEN TO CORRECT THE SITUATION	ACTION TAKEN TO PREVENT REOCCURANCE
496	10/25/2014	Safe Work Observation	RES Earth and Cable	Employees made sure that the loaders forks would reach and support the load.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
497	10/25/2014	Safe Work Observation	RES Earth and Cable	Trailer was chocked for unloading and loading.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
498	10/25/2014	Safe Work Observation	RES Earth and Cable	Loader used a ground guide when moving.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
499	10/25/2014	Hazard Observation	RES Earth and Cable	Area needed to be coned off for unloading and loading.	Employees were informed of the importance of deploying cones to mark loading and unloading area.	Addressed in daily safety meeting
500	10/25/2014	Safe Work Observation	RES Earth and Cable	Before using hand tools employee donned gloves for task.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
501	10/25/2014	Safe Work Observation	RES Earth and Cable	Employee made sure that the trailer being worked on was chocked.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
502	10/25/2014	Safe Work Observation	RES Earth and Cable	Employee made sure that the truck the trailer was hooked up too had the parking brake on.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
503	10/25/2014	Safe Work Observation	RES Americas	Supervisor parked vehicle out of traffic pattern.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
504	10/25/2014	Safe Work Observation	RES Americas	Supervisor deployed cones as soon as he exited vehicle.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
505	10/25/2014	Safe Work Observation	RES Americas	Supervisor donned cold weather clothing for outside work.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
506	10/25/2014	Safe Work Observation	RES Americas	Supervisor set the example by donning all required PPE for work taking place.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
507	10/25/2014	Safe Work Observation	RES Earth and Cable	Mememployees moved men at work signs to location where culverting work was being conducted.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
508	10/25/2014	Safe Work Observation	RES Earth and Cable	Foreman redirected truck traffic to avoid hazards to crew working.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
509	10/25/2014	Safe Work Observation	RES Earth and Cable	Employees picked up geo grid rolls to avoid vehicle hazards.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
510	10/25/2014	Hazard Observation	RES Earth and Cable	Foreman was smoking to close to the buildings.	Foreman was asked to move away from buildings and reminded of the required 25ft clearance from buildings when smoking.	addressed in daily safety meeting
511	10/25/2014	Safe Work Observation	RES Earth and Cable	Individuals blocked off road to traffic while culverts were being located.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
512	10/25/2014	Safe Work Observation	RES Earth and Cable	All individuals donned proper cold weather and PPE gear for outside work.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
513	10/25/2014	Hazard Observation	RES Earth and Cable	Individuals were walking toward a truck along the side of the road against traffic.	Individuals were instructed that they should have had the vehicle come and pick them up as opposed to walking to it along the road.	addressed in daily safety meeting
514	10/25/2014	Safe Work Observation	Nelson Wind	All individuals were wearing correct PPE for tasks.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
515	10/25/2014	Safe Work Observation	Nelson Wind	Conveyor truck operator maintained situational control over operation. Ensuring safe operations.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
516	10/25/2014	Safe Work Observation	Nelson Wind	Barricades were left in place to prevent access to excavation site.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
517	10/25/2014	Safe Work Observation	Nelson Wind	All vehicles deployed cones.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
518	10/26/2014	Safe Work Observation	RES Earth and Cable	Employees used backer when hooking up trailer to pick up	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.



				truck.		
519	10/26/2014	Safe Work Observation	RES Earth and Cable	Employees donned gloves when using hand tools and picking up materials.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
520	10/26/2014	Safe Work Observation	RES Earth and Cable	Employees used proper lifting techniques when lifting rolls of geo grid onto trailer.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
521	10/26/2014	Safe Work Observation	RES Earth and Cable	Employees used extra time to drive around site and pick up left materials, equipment and trash that could casue a hazard if left where it was.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
522	10/27/2014	Safe Work Observation	RES Americas	Individual sought out Site Safety for orientation after arriving onsite.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
523	10/27/2014	Safe Work Observation	RES Americas	Individual requested PPE for use while visting site.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
524	10/27/2014	Safe Work Observation	RES Earth and Cable	Employee brought JHA to Site Safety for review and sign on.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
525	10/27/2014	Safe Work Observation	RES Earth and Cable	Employees positioned equipment for safe movement around work site and to eliminate hazards.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
526	10/27/2014	Safe Work Observation	RES Earth and Cable	Set up a flow of traffic for trucks to pull in and exit the site safely.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
527	10/27/2014	Safe Work Observation	RES Earth and Cable	Maintainer operator controlled flow of traffic at site.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
528	10/27/2014	Safe Work Observation	RES Earth and Cable	Operator wore seatbelt wile operating equipment.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
529	10/27/2014	Hazard Observation	RES Earth and Cable	Aggregate trucks should not have been using 51 Ave to access 109. The road is a two track that has not been developed.	None, this was a safe observation	Addressed in daily safety meeting
530	10/27/2014	Safe Work Observation	RES Earth and Cable	Operator parked roller out of the way of traffic when parking equipment.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
531	10/27/2014	Safe Work Observation	RES Earth and Cable	Operator communicated with every truck driver ensuring proper placement of aggregate material.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
532	10/27/2014	Hazard Observation	RES Earth and Cable	Operaotr should stay on the road when turning around and not drive in the fields.	None, this was a safe observation	Addressed in daily safety meeting
533	10/27/2014	Safe Work Observation	RES Earth and Cable	Supervisor parked vehicle to aid in the loading of materials into the bed of truck.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
534	10/27/2014	Safe Work Observation	RES Earth and Cable	Employees used proper lifting techniques when loading geo grid.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
535	10/27/2014	Safe Work Observation	RES Earth and Cable	Employees didn't over load bed of truck creating a safety hazard while driving.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
536	10/27/2014	Near Miss	RES Earth and Cable	While digging an excavation site down to the required depth, operator Jack Sperry realized that prepositioned rebar was getting covered with spoils material that was being removed. Using a Fork Truck and a toe cable the operator removed the partially covered rebar from the spoils pile relocating it. Thus preventing the rebar from becoming completely covered and risking damaging the rebar or a piece of equipment when the spoil pile material is used for backfill.	the operator identifying the risk, used proper equipment to remove the rebar from the spoils pile and reposition it so it wouldn't pose a risk to equipment or operations.	Mentioned the good conditions in the next all hands meeting.



537	10/28/2014	Safe Work Observation	RES Earth and Cable	Operator followed message delivered in mning safety meeting to all drivers, that they are not to drive off road or on farmers property, they are to stay on roads.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
538	10/28/2014	Safe Work Observation	RES Earth and Cable	Equipment kept safe distance from one another and had beacon lights on.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
539	10/28/2014	Safe Work Observation	RES Earth and Cable	Both operators had on their seat belts while operating.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
540	10/28/2014	Safe Work Observation	RES Earth and Cable	Employee used three points on contact while climbing into the back of a pick up truck.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
541	10/28/2014	Safe Work Observation	RES Earth and Cable	Employees donned gloves for work involving handtools and cable.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
542	10/28/2014	Safe Work Observation	Nelson Wind	Employees were assigned to work in pairs at site that no one else was working at for safety.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
543	10/28/2014	Safe Work Observation	Nelson Wind	Employees had on all requiered PPE for task being undertaken.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
544	10/28/2014	Safe Work Observation	Nelson Wind	Employees having limited rescources to assist them pre positioned all tools and equipment.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
545	10/28/2014	Safe Work Observation	Nelson Wind	Crane operator inspected rigging before lift commenced.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
546	10/28/2014	Safe Work Observation	Nelson Wind	Crane deployed cribbing to stabalize out riggers before deploying outriggers.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
547	10/28/2014	Safe Work Observation	Nelson Wind	Crane work area was coned/ barricaded off for safety.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
548	10/28/2014	Safe Work Observation	Nelson Wind	Excavation barricade was put back up after work ended.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
549	10/28/2014	Safe Work Observation	RES Earth and Cable	All equipment had on beacons and flashers.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
550	10/28/2014	Safe Work Observation	RES Earth and Cable	all equipment was positioned out of the flow of traffic to and from site.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
551	10/28/2014	Safe Work Observation	RES Earth and Cable	Placed crew truck on access road out of work area.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
552	10/28/2014	Safe Work Observation	RES Earth and Cable	Crew truck crew deployed cones for parked vehicle.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
553	10/28/2014	Safe Work Observation	RES Earth and Cable	Equipment not being used for current work task was placed outside of the controlled work areas in order to reduce hazard at site access road.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
554	10/28/2014	Safe Work Observation	RES Earth and Cable	When farm equipment approached that was as wide as the road the equipment operators pulled off the road to allow it to pass safely	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
555	10/28/2014	Safe Work Observation	RES Earth and Cable	Crew truck was placed off the road to avoid road congestion.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
556	10/28/2014	Safe Work Observation	RES Earth and Cable	With high winds the crew weighted down the geo grid.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
557	10/28/2014	Safe Work Observation	RES Earth and Cable	Operators view of load was obstructed so the ground guide used proper hand signals when lifting equipment off trailer.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
558	10/28/2014	Hazard Observation	RES Earth and Cable	Area should have been coned off for off loading.	Individulas were informed aboput blocking off unloading area to identify it as a loading unloading zone.	Addressed in daily safety meeting
559	10/28/2014	Hazard Observation	RES Earth and Cable	Before unloading took place the crews should have relocated the trailer to a less congested area of the yard for	In daily meeting all employees were educated about using situation awareness when conducting operations and using good judgement when selecting work	Addressed in daily safety meeting



				unloading.	activity locations. To choose the best location to work from.	
560	10/28/2014	Safe Work Observation	RES Americas	Office was NFPA 70E compliant.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
561	10/28/2014	Safe Work Observation	RES Americas	Employees used proper ergonomics for work place setup.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
562	10/28/2014	Safe Work Observation	Munroe Builders	All employees were wearing PPE correctly for the tasks that they were performing.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
563	10/28/2014	Safe Work Observation	Munroe Builders	All vehicles were parked in one area to prevent congestion or hazards. All vehicles had cones deployed.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
564	10/28/2014	Safe Work Observation	Munroe Builders	For accessing cement forms, employees used a ladder that was deployed correctly.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
565	10/28/2014	Safe Work Observation	RES Earth and Cable	Operator had great communication while walking the trencher to its other location	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
566	10/28/2014	Safe Work Observation	RES Earth and Cable	Operator showed proper use of hand signals when walking the trackhoe north up the main road.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
567	10/28/2014	Safe Work Observation	Nelson Wind	Employee had proper ppe when pouring concrete for the pedestal	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
568	10/28/2014	Safe Work Observation	Nelson Wind	Employee followed direction as to staying warm with the right clothing and ppe.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
569	10/29/2014	Hazard Observation	RES Earth and Cable	Sump hole sides needed to be sloped.	Indicated to operators working site that the sides of the shole needed to be sloped at a 40 degree angle.	Addressed in daily safety meeting
570	10/29/2014	Hazard Observation	RES Earth and Cable	Electrical power cords connected and hanging over a pool of water.	Advised the site personnel that the sump pump being run was to be shut off until a means of powering it safely could be found.	Addressed in daily safety meeting
571	10/29/2014	Hazard Observation	RES Earth and Cable	Crew truck did not have cones deployed in front and behind truck.	Went to truck and deployed cones.	Addressed in daily safety meeting
572	10/29/2014	Hazard Observation	RES Earth and Cable	Inspector truck being operated without flashers or beacon light.	Told inspector that his beacon light needed to be active when on the job site.	Addressed in daily safety meeting
573	10/29/2014	Hazard Observation	RES Earth and Cable	Prepositioned materials creating vehicle/ equipment hazards where placed.	Talked with sub contractor about positioning materials so that they would be out of the way of traffic and equipemnt working.	Addressed in daily safety meeting
574	10/29/2014	Safe Work Observation	Nelson Wind	Ground guide and crane operator used excellent hand signal communications when lifting rebar.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
575	10/29/2014	Safe Work Observation	Nelson Wind	Supervisor donned gloves when assisting moving rebar.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
576	10/29/2014	Safe Work Observation	Nelson Wind	Ground personnel used two tag lines when lifting re bar to pedestal site.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
577	10/29/2014	Hazard Observation	Nelson Wind	Crew trucks needed to have cones deployed.	Told site foreman to have all the vehicles deploy cones while parked.	Addressed in daily safety meeting
578	10/29/2014	Safe Work Observation	Nelson Wind	Conveyor truck was coned and barricaded off for safety and controlled access.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
579	10/29/2014	Safe Work Observation	Nelson Wind	Excavation site barricades were left in place due to high foot and vehicle traffic at site.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
580	10/29/2014	Safe Work Observation	Nelson Wind	Concrete trucks all used a backer when backing up to dump site.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
581	10/29/2014	Safe Work Observation	Nelson Wind	All drivers and individuals working around concrete had on splash protection from materials.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.



582	10/29/2014	Safe Work Observation	Building and Earth	Inspector donned splash and chemical protection PPE before getting samples of concrete.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
583	10/29/2014	Safe Work Observation	Building and Earth	Inspector positioned testing equipment and sample site away from traffic and work activities so no one would trip over the equipment.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
584	10/29/2014	Safe Work Observation	Nelson Wind	Operator positioned himself so he could see the entire operation and safely move concrete conveyer boom without hitting personnel.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
585	10/29/2014	Safe Work Observation	Nelson Wind	Excellent communication while personnel were removing tarps from pedestal.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
586	10/29/2014	Safe Work Observation	RES Earth and Cable	When operator identified that the alternator was not working he shut down the equipment and called for a mechanic.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
587	10/29/2014	Safe Work Observation	RES Earth and Cable	Trenching operation kept close together as described in orientation to keep hazardous condition open for least amount of time as possible.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
588	10/29/2014	Safe Work Observation	Munroe Builders	All exposed rebar had caps on them..	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
589	10/29/2014	Safe Work Observation	Munroe Builders	Excavation site was barricaded off preventing unauthorized entrance.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
590	10/29/2014	Safe Work Observation	Munroe Builders	All features of the ladder were inspected and in good condition. Halyard was in servicable condition and tied off.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
591	10/29/2014	Damage	RES Earth and Cable	Operator of a dozer being used for back filling at turbine site 32 failed to safely back his piece of equipment causing his equipment to make contact with another piece of equipment resulting in damage.	Individual was addressed about the importance of ensuring that when backing it is done so safely and that he use the correct procedure when backing.	A Safety Stand Down will be held on 30Oct2014 at the morning safety meeting related to equipment operations and backing equipment.
592	10/29/2014	Safe Work Observation	RES Earth and Cable	Employee parked water truck 10 feet from edge of the excavation to avoid any possible cave ins while pumping water	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
593	10/29/2014	Safe Work Observation	RES Earth and Cable	Employee inspected pump and generator prior to using them	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
594	10/29/2014	Safe Work Observation	PCS	Employee set rebar caps on dowes that were sticking out from the simon forms	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
595	10/29/2014	Safe Work Observation	PCS	Employees had trash bags in area and utilized them well	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
596	10/29/2014	Safe Work Observation	RES Earth and Cable	Operator trenched properly and took precaution when advancing up the road	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
597	10/29/2014	Safe Work Observation	RES Earth and Cable	Operator utilized spotter while mobilizing	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
598	10/30/2014	Injury	RES Earth and Cable	The individual found a large rock in the way of operations and squatted down to move it. The individual then attempted to lift the rock upward. Lifting upward the employee felt a sharp pain in his lower back that he says radiated down both of his legs.	Communication was addressed to the employee as well as his immediate supervisor as to the proper procedures for lifting any objects and if the objects can be moved with machinery as opposed to manually moving the objects	Communication was addressed to all employees as well as supervision as to the proper procedures for lifting any objects and if the objects can be moved with machinery as opposed to manually moving the objects in the next morning safety talk.



**Exhibit 3 – Environmental Log**

#	CLASS	SUB_CAT	CONTRACTOR	DATE	INCIDENT DETAILS	ACTION TAKEN TO CORRECT SITUATION	ACTION TAKEN TO PREVENT REOCCURANCE
49	Minor Incident (Below RQ)	Equipment Failure or leak	Nelson Winds	10/29/2014	Oil leak was spotted on the ground at T4 access road possibly from the rebar delivery truck. Estimated volume of 1 cup of oil.	The affected soil was collected in a container using a shovel.	Instructed all subcontractor to ensure all trucks entering the site, do not have leaks

**Exhibit 4 – Quality Log**

- Incidents - None
- CPARs - None
- NCRs - Two by Xcel

**Material Receipt**

Description of Material	Delivery Date	Vendor	Quantity	Cumulative Qty	Balance

Description of Material	NCR Opened	NCR Closed	Total NCR Open	Total NCR Closed
	(Current Week)	(Current	(As of this Week)	(As of this



		Week)		week)
Totals	2	1	2	2
NCR-2014-37, T49 cold weather concrete concerns	X			
NCR-2014-38, T3 grounding installation	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	
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	
4	Roads, Culverts	105 <sup>th</sup> 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	



### 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 <sup>2</sup> 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	
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	
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	
23053-12	Bob Tepp	RES	Bradley Morrison	Xcel Energy - Generation	Access Road Adjustment to T31 and T32	8/18/2014	8/21/2014	Civil	
23053-13	Bob Tepp	RES	Bradley Morrison	Xcel Energy - Generation	Access Road Adjustment to T26	8/18/2014	8/21/2014	Civil	
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	
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	
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	10/16/14
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	
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	



23053-27	Kyler Leen	RES	Richard Farmer	Vestas	Grounding kit installation for T3	10/20/2014	10/27/2014	Electrical	
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	

# Exhibit 6 – Three Week Look Ahead



ID	Task Name	Duration	Start	Finish	% Complete	13	2014 H2	2015 H1	2015 H2
1	Border Wind Wind Farm - Construction Schedule - 150MW	631.75 days	Wed 7/31/13	Thu 12/31/15	36%				
10	Design & Engineering	368.75 days	Wed 1/15/14	Mon 6/15/15	37%				
44	Procurement - Long Lead Items	314.75 days	Tue 4/1/14	Mon 6/15/15	31%				
48	Grounding Transformers	251.75 days	Fri 6/27/14	Mon 6/15/15	0%				
49	Grounding Transformers (6 Units)	251.75 days	Fri 6/27/14	Mon 6/15/15	0%				
50	34.5kV MV Collection System - Procurement	30.75 days	Fri 6/27/14	Fri 10/31/14	41%				
51	MV Cable	90.75 days	Fri 6/27/14	Fri 10/31/14	25%				
53	Underground Fiber - X LF	90.75 days	Fri 6/27/14	Fri 10/31/14	100%				
54	Cable Accessories	90.75 days	Fri 6/27/14	Fri 10/31/14	0%				
55	Rubber Goods	90.75 days	Fri 6/27/14	Fri 10/31/14	0%				
56	Substation - Procurement	251.75 days	Fri 6/27/14	Mon 6/15/15	7%				
57	Main Transformer	41.96 wks	Fri 6/27/14	Mon 6/15/15	0%				
64	Construction	346.75 days	Tue 7/1/14	Wed 10/28/15	83%				
65	Civil Works	346.75 days	Tue 7/1/14	Wed 10/28/15	91%				
67	Civil Construction - Roads	103.75 days	Tue 7/8/14	Fri 11/28/14	91%				
90	Batch Plant and Substation	43.75 days	Mon 7/14/14	Thu 9/11/14	96%				
92	Prepare Substation Pad Site	46 days	Tue 9/2/14	Wed 11/5/14	96%				
93	Public Road Upgrade	99.75 days	Mon 7/14/14	Fri 11/28/14	85%				
94	Upgrade Public Roads	99.75 days	Mon 7/14/14	Fri 11/28/14	85%				
95	Site Roads Installation	90.67 days	Thu 7/17/14	Thu 11/20/14	89%				
136	Tower 21 to 26 (6 WTGs) (Road H, J, K) - 17,580 LF	22.25 days	Fri 9/26/14	Wed 10/29/14	100%				
136	Rough Grade Preparation	9 days	Tue 10/14/14	Mon 10/27/14	100%				
139	Install Base Material	9 days	Thu 10/16/14	Wed 10/29/14	100%				
140	Tower 38 to 39 (2 WTGs) (Road Q) - 2,060 LF	15.75 days	Wed 10/8/14	Thu 10/30/14	100%				
142	Rough Grade Preparation	1 day	Mon 10/27/14	Tue 10/28/14	100%				
143	Install Base Material	1 day	Wed 10/29/14	Thu 10/30/14	100%				
144	Tower 35 to 37 (2 WTGs) (Road Q) - 4,000 LF	28.25 days	Mon 10/13/14	Thu 11/20/14	79%				
146	Rough Grade Preparation	2 days	Tue 10/28/14	Thu 10/30/14	50%				
147	Install Base Material	2 days	Thu 10/30/14	Mon 11/3/14	0%				
148	Tower 4 to 6 (3 WTGs) (Road B) - 2,780 LF	13.58 days	Mon 11/3/14	Thu 11/20/14	100%				
149	Install Road - Entrance	4.5 days	Mon 11/3/14	Fri 11/7/14	100%				
150	Rough Grade Preparation	1.5 days	Mon 11/17/14	Tue 11/18/14	100%				
151	Install Base Material	1.5 days	Wed 11/19/14	Thu 11/20/14	100%				
152	Tower 33,34 (2 WTGs) (Road E) - 2,050 LF	15 days	Tue 10/14/14	Tue 11/4/14	11%				
154	Rough Grade Preparation	1 day	Thu 10/30/14	Fri 10/31/14	0%				
155	Install Base Material	1 day	Mon 11/3/14	Tue 11/4/14	0%				
156	Tower 15 to 20 (6 WTGs) (Road G, H) - 11,910 LF	18.83 days	Wed 10/15/14	Tue 11/11/14	70%				
158	Rough Grade Preparation	6 days	Fri 10/31/14	Mon 11/10/14	75%				
159	Install Base Material	6 days	Mon 11/3/14	Tue 11/11/14	50%				
160	Tower 7 to 11 (5 WTGs) (Road B, C) - 9,910 LF	20.45 days	Mon 10/20/14	Tue 11/18/14	0%				
161	Install Road - Entrance	4.5 days	Mon 10/20/14	Mon 10/27/14	0%				
162	Rough Grade Preparation	5 days	Mon 11/10/14	Mon 11/17/14	0%				
163	Install Base Material	5 days	Tue 11/11/14	Tue 11/18/14	0%				
164	Tower 12 to 14 (3 WTGs) (Road F) - 4,030 LF	10.41 days	Fri 11/7/14	Fri 11/21/14	100%				
165	Install Road - Entrance	3 days	Fri 11/7/14	Wed 11/12/14	100%				
166	Rough Grade Preparation	2 days	Tue 11/18/14	Thu 11/20/14	100%				
167	Install Base Material	2 days	Wed 11/19/14	Fri 11/21/14	100%				
170	Turbine Foundation	262.75 days	Fri 7/18/14	Tue 7/21/15	71%				
171	Foundation Construction	96 days	Mon 7/21/14	Tue 12/2/14	83%				
173	Deliver Turbine Foundation Materials	70 days	Thu 8/7/14	Thu 11/13/14	85%				
253	Foundations - Tower 15 to 20 (6 WTGs)	7.5 days	Thu 10/16/14	Tue 10/28/14	60%				
257	Install Forms, Rebar & Pour Pedestal	3.5 days	Wed 10/22/14	Mon 10/27/14	35%				
258	Backfill	3 days	Thu 10/23/14	Tue 10/28/14	0%				
259	Foundations - Tower 7 to 11 (5 WTGs)	7.5 days	Tue 10/21/14	Fri 10/31/14	40%				
261	Excavate	2.5 days	Wed 10/22/14	Mon 10/27/14	60%				
262	Install Forms, Bolt Cage, Rebar & Pour Base	3 days	Fri 10/24/14	Wed 10/29/14	60%				
263	Install Forms, Rebar & Pour Pedestal	3 days	Mon 10/27/14	Thu 10/30/14	20%				
264	Backfill	2.5 days	Tue 10/28/14	Fri 10/31/14	0%				
265	Foundations - Tower 4 to 6 (3 WTGs)	7 days	Fri 10/24/14	Tue 11/4/14	47%				
266	Strip Top Soil & Level Pad Sites	1.5 days	Fri 10/24/14	Mon 10/27/14	66%				
267	Excavate	1.5 days	Mon 10/27/14	Tue 10/28/14	66%				
268	Install Forms, Bolt Cage, Rebar & Pour Base	2 days	Wed 10/29/14	Fri 10/31/14	66%				
269	Install Forms, Rebar & Pour Pedestal	2 days	Thu 10/30/14	Mon 11/3/14	33%				
270	Backfill	1.5 days	Fri 10/31/14	Tue 11/4/14	0%				
271	Foundations - Tower 12 to 14 (3 WTGs)	5.5 days	Thu 11/20/14	Fri 11/28/14	100%				
272	Strip Top Soil & Level Pad Sites	1.5 days	Thu 11/20/14	Mon 11/24/14	100%				
273	Excavate	1.5 days	Fri 11/21/14	Tue 11/25/14	100%				
274	Install Forms, Bolt Cage, Rebar & Pour Base	2 days	Mon 11/24/14	Wed 11/26/14	100%				
305	Electrical Installation	219.75 days	Tue 9/2/14	Mon 7/6/15	12%				
306	34.5kV Underground Collection System	219.75 days	Tue 9/2/14	Mon 7/6/15	12%				
309	34.5kV Underground Collection System Installation	219.75 days	Tue 9/2/14	Mon 7/6/15	14%				
312	Circuit 2 Home Run (Substation-JB2/1-JB2/5)	10 days	Tue 10/14/14	Tue 10/28/14	80%				
313	Circuit 3 Home Run (Substation-JB3/1-JB3/3)	7.5 days	Tue 10/28/14	Fri 11/7/14	40%				
314	Circuit 4 Home Run (Substation-JB4/1-JB4/2)	6 days	Fri 11/7/14	Mon 11/17/14	0%				
315	Circuit 5 Home Run (Substation-JB5/1)	2 days	Mon 11/17/14	Wed 11/19/14	95%				
316	Circuit 6 Home Run (Substation-JB6/1-JB6/3)	3.5 days	Wed 11/19/14	Mon 11/24/14	0%				
317	Circuit 1A Turbine Runs (6 WTGs - 64, 63, 65, 66, 67, 68)	3 days	Mon 11/24/14	Thu 11/27/14	0%				
330	Substation Installation	213.8 days	Wed 10/1/14	Mon 7/27/15	1%				
331	Substation Procurement	184.8 days	Wed 10/1/14	Tue 6/16/15	0%				
332	230 KV Breaker	19 wks	Wed 10/1/14	Tue 3/10/15	0%				
333	Manufacture 34.5 KV Circuit Breakers	28 wks	Wed 10/1/14	Mon 5/25/15	0%				
334	Manufacture 230KV Switches	20 wks	Wed 10/1/14	Wed 3/18/15	0%				
335	Manufacture 34.5 KV Switches	20 days	Wed 10/1/14	Wed 10/29/14	0%				
337	Manufacture and Deliver Control Building	20 wks	Wed 10/1/14	Wed 3/18/15	0%				
338	Substation Construction	213.05 days	Wed 10/1/14	Mon 7/27/15	8%				
340	Below Grade Conduit & Grounding	11 days	Thu 10/23/14	Fri 11/7/14	0%				
341	Foundation Works	15 days	Fri 11/7/14	Fri 11/28/14	10%				
354	Communications & Backup Power	86.67 days	Wed 10/1/14	Thu 1/29/15	0%				
355	Design & Order T1 & POTS lines	3.2 mons	Wed 10/1/14	Wed 1/2/15	0%				
357	Design & Order Backup Power for Control Building	3.2 mons	Wed 10/1/14	Wed 1/2/15	0%				
361	O&M Building Installation	76 days	Mon 9/15/14	Tue 12/30/14	31%				
363	Install Conduits & Pour Foundation	44 days	Mon 9/29/14	Fri 11/28/14	50%				
366	Mef Instrumentation Installation	257.75 days	Mon 8/11/14	Wed 9/30/15	4%				
367	Procure, Manufacture & Deliver to Site	36 wks	Fri 8/15/14	Mon 6/15/15	0%				



**Border Winds Energy**  
Notes of Conference Call 20141023

Name	Present	Organization	Name	Present	Organization
Bob Tepp (BT)	X	RES	Brad Morrison (BMo)	X	Xcel
Larry Clark (LC)	X	RES	Zach Smith (ZS)	X	Xcel
Brian Christiansen		RES	Nathan Svboda (NS)	X	Xcel
Shabeeb Khader	X	RES	Tony Mallizzio (TM)	X	Xcel
George Protz	X	RES	Paul Logan (PL)		Xcel
Brandon Rhine	X	RES	Michael O'Brien (MO)	X	Xcel
Lester Archer	X	RES	Doug Harthun	X	Xcel
Tim Mapp		RES			
Martin Macias		RES			
Fred Lillie		RES			
Chris Hills (CH)		RES			
Kenny Knecht (KK)	X	RES			
Julio Lima (JL)		RES			
David Calitz (DC)		RES			
Kyler Leen (KL)	X	RES			
Mohamed Nofal (MN)	X	RES			
Jomaa Ben-Hassine (JBH)		RES			
Ryan Burris (RB)	X	RES			
Steve Keuter	X	RES			
Steve Wichern		RES			
Sean Flannery		RES			
Brad Lila	X	RES			
Ben Cass	X	RES			
Jenny Bredt (JB)		RES			



1. Safety Review:

- a. Current Site Safety Index: 0.57
- b. Current TRIR: 0.00
- c. Completed 104 days onsite and 80,766 man hours
- d. Completed 31 orientations in the current period and 294 project to date
- e. Lost time injuries: 0 in week, 0 PTD
- f. Recordable injuries: 0 in week, 0 PTD
- g. First Aids: 1 in week, 9 PTD
- h. Property Damage: 2 in week, 9 PTD
- i. Near Misses: 0 in week, 21 PTD
- j. 3X20 Observations: 27 in week, 186 PTD

2. Review of Weekly Report – See below, notes shown in **Bold Red**

3. Review of Project Schedule



## BORDER WINDS WIND PROJECT WEEKLY PROJECT REPORT

Weekly report no:	14
Report for week period ending COB Friday:	10/17/14
Calendar week no:	42

### Executive Summary

#### This Week's Highlights

- Completed work activities with zero recordable injuries accounting for 10,535.70 man hours in the current week and 80,766.70 man hours project to date – TRIR remains at 0.00;
- Completed construction of 136,708 LF out of 189,136 LF of access road aggregate placement project to date – 72% complete;
- Completed five (5) excavations for a total of 60 of 75 sites to date – 80%;
- Poured five (5) mud mats for a total of 56 of 75 sites to date – 75%
- Poured eight (8) bases for a total of 47 of 75 foundation bases project to date – 63% complete;
- Poured eight (8) pedestals for a total of 42 of 75 foundation pedestals project to date – 56% complete;
- Backfilled three (3) foundations for a total of 22 of 75 foundations project to date – 30% complete;
- Trencher for Collection System has been repaired and is back in service;
- Continued construction of Collection System with trenching (a total of 11,902 linear feet) and directional drilling – 3% complete;
- Completed excavation of O&M Building foundation footings and installed rebar;

#### This Week's Key Issues

- Submitted second response to NCR-2014-026 regarding installation of geogrid on 105<sup>th</sup> St and Access Road T-1, reviewed onsite with Rolette County and Xcel, expecting to be closed out (Xcel concurred with closure during monthly meeting);
- Trencher for Collection System was broke down until Wednesday, October 15<sup>th</sup> – digging trench with excavator while trencher was down;
- Civil self-perform crews still require additional supervisors/foremen;



- Confirmed substation grading/foundation plans – rough grading expected to be completed by Wednesday, October 22<sup>nd</sup>;
  - Foundation drawings reviewed with Xcel on Friday, October 17<sup>th</sup>. Subgrade work cleared for construction with Rosendin commencing foundation excavations on Saturday, October 18<sup>th</sup>. First backfill pour planned for Tuesday, October 21<sup>st</sup>;
- Multiple pieces of civil equipment down for service or repair.

### Safety

Accident and incident statistics for this period and to date are:

Type	Lost Time	Recordable Injury (Medical Aid)	Minor Injury (First Aid)	Equipment Property Damage	Near Miss	3X20 Observation
Current Period	0	0	1	2	0	27
Project To Date	0	0	8	9	21	186

**TRIR = 0.00**

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

**RES Safety Index = +0.57**

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

\*Full description of week's Safety Log can be found in Exhibit 2

#### **Week's Highlights:**

- HSQE Site Safety Audit was completed by HSQE Manager Stephen Sloat;
- All Site Safety Signage has been installed;
- Site Safety Pledge Banner has been placed on display;
- Site flag poles have been installed;
- Main project sign and hours worked sign installed;
- Additional traffic control signage installed in laydown yard and throughout site;
- Goal posts being installed where required.

#### **Week's Issues:**

- One (1) first aid added to log. An employee injured his left knee while using a jumping jack plate compactor. He was seen by medical professionals and was released to full work status.



- Two (2) minor property damages

**Project Work Hours:**

- Weekly Man-hours: 10,535.70
- PTD Man-hours: 80,766.70

**Environmental**

\*Full description of week's Environmental Log can be found in Exhibit 3

Type	Major Incident	Minor Incident	Near Miss	Observation
Current Period	0	7	0	0
Project to Date	0	35	3	7

Rolling Incident Score: **1.77**

**Week's Highlights:**

- Biweekly inspection completed on 10/11/2014 - No issues found;
- Silt fence inspection completed on Friday, 10/17/2014 following high winds on Thursday, 10/16/14 - No issues found;
- All installed BMPs are maintained in good condition;
- All civil crew site trucks are equipped with spill kit for immediate spill control;
- New special waste bin placed in the lay down yard for all spills.

**Week's Issues:**

- Site experienced seven (7) minor spills that were all contained and cleaned up.
  - Three (3) diesel spill in the laydown yard
  - One (1) concrete washout pit overflow at T13
  - One (1) hydraulic fluid spill from an excavator
  - One (1) anti-freeze spill from an aggregate truck
  - One (1) unknown fluid spill from a **personal** truck

**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
<b>Weekly</b>	0	1	1	0	0	0	0	0	0
<b>Total</b>	2	1	1	0	0	0	0	0	0

**Week's Highlights:**

- On-going - sieve testing, material proctor, compaction testing, proof rolling, visual inspections for organics in the subgrade, concrete breaks & WTG foundation backfills;
- On-going – Monitor the placement of concrete for mud mats, WTG foundation bases & pedestals;
- On-going daily quality meeting to convey any quality construction issues between the RES quality team, RES management and Xcel. Any issues are recorded and addressed regarding corrective action.

**Work Area Inspections conducted:**

- Proof rolled access roads for T-4, T-5, T-6, T-8, T-12, T-15 & T-16 - All acceptable for geogrid and class 5 placement;
- Inspected foundation subgrades for T-5, T-12, T-13 & T-14. – Acceptable for mud mat;
- Inspection of base reinforcing steel for T-2, T-3, T-12, T-13, T-15, T-21, T-25, T-26 & T-27. – Acceptable for concrete placement;
- Monitored base concrete placement for T-3, T-13, T-14, T-21, T-25, T-27 & T-28;
- Monitored pedestal concrete placement for T-25, T-26, T-27, T-28, T-29, T-30, T-31 & T-32;
- Inspection of back fills for T-19, T-71 & T-76 – Acceptable for backfill;
- Inspected substation subgrade and density checks, all density tests passed;
- Inspected O&M building subgrade and density checks, all density tests passed;
- Inspected culvert installations on access roads, T-6 & T-16.- Acceptable

**Week's Issues through 10/17/2014:**

- Foundation base T-49 was not completely covered after the placement of concrete for the protection from cold weather per ACI 306. A Schmidt hammer test will be conducted on the exposed area after a 14 day cure time per ASTM to verify the concrete strength is within the design specifications.
- There have been issues with culvert installations, the land owners are requesting deviation from the construction plans, in the future Xcel, RES Quality, RES Civil Manager and Land Owners will be present to resolve any issues or concerns to ensure acceptable installation.

**Schedule Status**



Project duration	68
No. of weeks into contract	16
Contract time passed (%)	23.5 %

Key Activities (Construction)	Weighted %	Percent Complete		
		Contract Schedule	Construction Schedule	Actual
Design Engineering	2.5%	100%	100%	100%
Roads and Crane Pads	20%	61%	61%	56%
Foundations	20%	71%	71%	52%
Collection System	20%	38%	25%	12%
Substation	10%	29%	17%	12%
WTG Delivery, Erection, MCC	20%	0%	0%	0%
O&M Building	5%	26%	22%	8%
Completion	2.5%	0%	0%	0%
Overall Actual Percent Complete				28%

## 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
<b>O&amp;M Septic Permit</b>	<b>ND State</b>	<b>AB Systems</b>	<b>8/30/15</b>	<b>Working w/ State</b>

### Comments:

- Looking into rural water option cost of service as an option to the well
- ND State Health Department reviewed site and looking for area for septic drain field. Report pending.

### 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		58%
Clear and Grub	20%	152,076	117,643	34,433	77%
Subgrade	25%	152,076	105,161	46,915	69%
Place and Compact Road Base	30%	189,136	136,708	52,428	72%
Shoulders	15%		0		
Ditches	10%		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:

- Completing RFIs on access road realignments - reviewed in the field with Xcel;
- Road construction continues to advance to ensure foundation corridors are accessible for concrete construction;
- Subgrade stabilization requirements continue – moving forward with options of 6-inch minus without geogrid, geogrid with 16 inches of aggregate coverage, or layered geogrid consisting of 10 inches of aggregate between geogrid layers which then has 8 additional inches of aggregate to substantially complete the road.

### Foundations

Item	Weighted %	Budget	Total Completed	Total Remaining	Percent Complete
Excavations	10%	75	60	15	80%
Mud Mats	5%	75	56	19	75%
Bases	45%	75	47	28	63%
Pedestals	20%	75	42	33	56%
Backfilled	15%	75	22	53	30%
Vestas Ground Kit	5%	75	48	27	64%

**Foundation Progress      59%**

### Comments:

- Completing excavations, over-excavations, and fill of over-excavations with inspection by RRC to approve excavation subgrade for mud mats;



- Completed 5 excavations, 5 mud mats, 8 bases, 8 pedestals, 2 backfills and 8 Vestas ground kit installation in the current period;
- Nelson actively pouring mud mats, building bolt cages, and setting rebar and pouring foundation bases and pedestals – targeting 8 to 10 foundations per week;
- Nelson’s crane for setting bolt cages was down 2 days for repairs;

### Collection System

Item	Weighted %	Quantity	Total Received	Total Remaining	Percent Complete
<b>Deliveries</b>	<b>30.0%</b>		<b>Deliveries</b>		<b>34%</b>
Grounding Transformers	10.0%	6	0	6	0.0%
MV Cable 3/0 AWG AL	15.0%	303,596	37,912	265,684	12%
MV Cable 350 Kcmil AL	7.5%	140,708	0	140,708	0.0%
MV Cable 750 Kcmil AL	15.0%	205,038	0	205,038	0.0%
MV Cable 1000 Kcmil AL	7.5%	88,167	23,426	64,741	26%
MV Cable 1250 Kcmil AL	20.0%	147,069	130,476	16,593	88%
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%		0		0.0%
Rubber Goods	5.0%		0		0.0%
<b>Installations</b>	<b>50.0%</b>		<b>Installations</b>		<b>3%</b>
Trench	60%	288,150	11,902	278,324	4%
MV & Fiber/Ground Cable	30%	288,150	11,902	276,248	4%
Grounding Transformers	5%		0		0.0%
Junction Boxes	5%		0		0.0%
<b>Terminations</b>	<b>20.0%</b>		<b>Terminations</b>		<b>0.0%</b>
Grounding Transformers	10.0%		0		0.0%
Junction Boxes	30.0%		0		0.0%
Turbine	60.0%		0		0.0%

**Collection System Progress: 12%**

### Comments:

- RES self-perform crews are onsite and collector installation has commenced;
- Trencher had mechanical issues and was back in service as of Wednesday, October 15<sup>th</sup>;
- Cable deliveries had significant lull but have resumed;
- Dolan drilling is onsite and has started the directional drilling and pipe installation for the collector home-runs ahead of trenching operations;
- **Xcel requested development and addition of directional bore reporting;**



- Xcel discussed the desire to have pricing on installation of thermocouples at the splices, thermocouples to be unterminated, but have leads extending through pipe to surface. LA to work with Brian Hembel on pricing. Potentially an issue with landowners who are farming the areas where the thermocouples might be installed.
- Revised Collector Drawings – Circuit 1 split into 1A and 1B, KL and SK finalizing JB moves and issuing updated drawing which will be provided to Xcel.

### O&M Building

- Rough grading of site is complete – adjusted layout of compound within purchased property to provide an additional 20 feet of room for tree plantings;
- Building footings have been excavated and forms have been set (**footings have been poured, expecting to pour walls next week**);
- Building was delivered on 9/11/14 - Construction will continue through the winter with a scheduled completion by end of December 2014.

### Substation

- Rosendin resubmitted design drawings at 60% received – under review by RES;
- Foundation drawing review with Xcel completed on Friday, October 17th;
  - Subgrade work released for construction with Rosendin commencing excavations on Saturday, October 18<sup>th</sup>;
  - First flowable fill backfill pour scheduled for Tuesday, October 21<sup>st</sup>;
- RES self-perform scheduled to complete grading of site Wednesday, October 22<sup>nd</sup>;
- **Encountered organic material below native clay during completion of MPT foundation excavation. Xcel issued an NCR for this event with the note that fill as described in the Substation Standards should be used to fill the pad. RES conducted potholing exercise to clear most of pad, working on uncovering the vein of material to its extents within the pad and remove it. As part of the NCR response, RES to provide map with photos, RRC to provide review of work completed.**

### Exhibit 1 – Site Photographs



Border Winds; RES and safety flags



Border Winds; Substation site grading



Border Winds; T18 Entrance



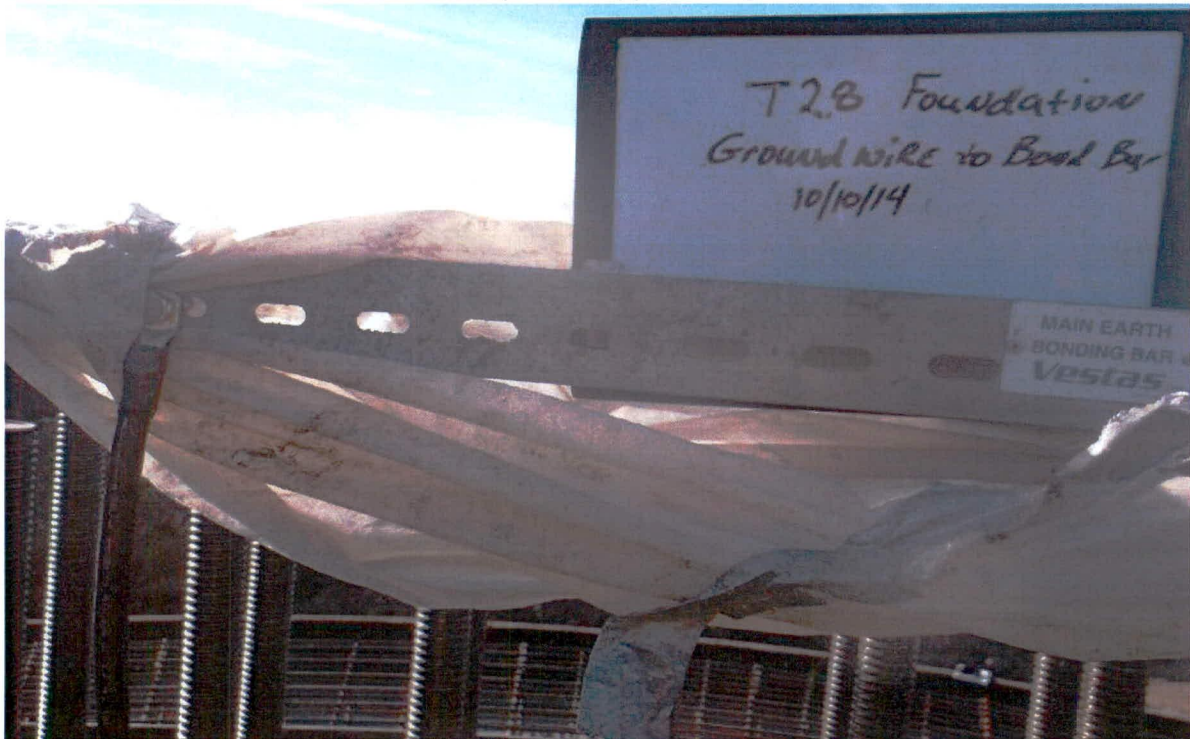
Border Winds; T19 Foundation subgrade compaction



Border Winds; O&M Building footing form (west view)



Border Winds; T21 Foundation rebar inspection approval tag



Border Winds; T28 Earthing kit bonding bar



Border Winds; T51 Rebar and conduit



## Exhibit 2 – Safety log

#	DATE	CLASS	CONTRACTOR	INCIDENT DETAILS	ACTION TAKEN TO CORRECT THE SITUATION	ACTION TAKEN TO PREVENT REOCCURRENCE
349	10/9/2014	Safe Work Observation	RES Americas	Section 3.5 was completed, all sections compliant.	Safety Inspection (Compliant)	Addressed in daily safety meeting
350	10/9/2014	Safe Work Observation	RES Americas	Section 3.7 was completed, all sections compliant.	Safety Inspection (Compliant)	Addressed in daily safety meeting
351	10/9/2014	Safe Work Observation	RES Americas	Section 3.8 was completed, all sections compliant.	Safety Inspection (Compliant)	Addressed in daily safety meeting
352	10/9/2014	Safe Work Observation	RES Americas	Section 3.9 was completed, all sections compliant.	Safety Inspection (Compliant)	Addressed in daily safety meeting
353	10/10/2014	Safe Work Observation	RES Americas	Section 3.11 was completed, all sections compliant.	Safety Inspection (Compliant)	Addressed in daily safety meeting
354	10/10/2014	Safe Work Observation	RES Americas	Section 3.12 was completed, all sections compliant.	Safety Inspection (Compliant)	Addressed in daily safety meeting
355	10/10/2014	Safe Work Observation	RES Americas	Section 3.13 was completed, all sections compliant.	Safety Inspection (Compliant)	Addressed in daily safety meeting
356	10/10/2014	Safe Work Observation	RES Americas	Section 3.14 was completed, all sections compliant.	Safety Inspection (Compliant)	Addressed in daily safety meeting
357	10/13/2014	Safe Work Observation	RES Americas	Section 3.15 was completed, all sections compliant.	Safety Inspection (Compliant)	Addressed in daily safety meeting
358	10/13/2014	Safe Work Observation	RES Americas	Section 3.16 was completed, all sections compliant.	Safety Inspection (Compliant)	Addressed in daily safety meeting
359	10/13/2014	Safe Work Observation	RES Americas	Section 3.17 was completed, all sections compliant.	Safety Inspection (Compliant)	Addressed in daily safety meeting
360	10/13/2014	Safe Work Observation	RES Earth and Cable	Good use of hand signals between equipment operator and ground personnel.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
361	10/13/2014	Safe Work Observation	RES Earth and Cable	Ground guide was used even though not needed for extra safety.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
362	10/13/2014	Hazard Observation	RES Earth and Cable	Work truck was parked and needed to have cones put out.	Individuals were told to go put their cones out. Will also be addressed in the next daily safety meeting.	Addressed in daily safety meeting
363	10/13/2014	Safe Work Observation	Nelson Wind	Excellent communications between everyone on site while crane was moving rebar.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
364	10/13/2014	Hazard Observation	RES Earth and Cable	Employee operating a vehicle did not have a beacon on top of vehicle.	Announcement was made on all radio channels that all individuals driving company vehicles needed to have either a beacon or running flashers.	Addressed in daily safety meeting
365	10/14/2014	Safe Work Observation	RES Earth and Cable	Cement truck operator maintained scene control and site situational awareness of other workers safety.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
366	10/14/2014	Safe Work Observation	RES Earth and Cable	Cement truck drivers all had on PPE when working where cement was being off loaded.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
367	10/14/2014	Safe Work Observation	RES Earth and Cable	Crew truck was positioned outside of the work area and coned.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
368	10/14/2014	Safe Work Observation	RES Earth and Cable	The operator asked if there were any barricading materials in my vehicle so that he could properly barricade the excavation site.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
369	10/14/2014	Safe Work Observation	RES Earth and Cable	All workers donned correct PPE for equipment work.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
370	10/14/2014	Safe Work Observation	RES Americas	Section 3.18 was completed; section is not applicable to ongoing work.	Safety Inspection (Non Applicable)	Addressed in daily safety meeting
371	10/14/2014	Safe Work Observation	RES Americas	Section 3.19 was completed, all sections compliant.	Safety Inspection (Compliant)	Addressed in daily safety meeting
372	10/14/2014	Safe Work Observation	RES Americas	Section 3.20 was completed; section is not applicable to ongoing work.	Safety Inspection (Non Applicable)	Addressed in daily safety meeting
373	10/14/2014	Safe Work Observation	RES Americas	Section 3.21 was completed, all sections compliant.	Safety Inspection (Compliant)	Addressed in daily safety meeting
374	10/14/2014	Injury	RES Earth and Cable	The employee was operating a jumping jack plate compactor	The employee was taken to Presentation Medical Center for evaluation and cleared	Reminded all employees about the importance of following safety program when working on the



				and while using the equipment the employee lost grip of the equipment and the left handle of the equipment impacted his left knee.	for full duty on 14Oct2014.	Border Winds Project.
375	10/15/2014	Safe Work Observation	RES Earth and Cable	The crew working had a land owner visit the site and had the owner sign onto the JHA	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
376	10/15/2014	Safe Work Observation	RES Earth and Cable	Road Maintainer operator got out of the equipment and directed the trucks where to drop materials.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
377	10/15/2014	Safe Work Observation	RES Earth and Cable	The crews on the ground had great communication with the maintainer operator when trucks would drop materials onto geo grid and getting materials spread.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
378	10/15/2014	Safe Work Observation	Building and Earth	Cement tester donned all needed PPE, chemical gloves and eye splash protection.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
379	10/15/2014	Safe Work Observation	Dolan Directional	Operator showed proper use of his machinery	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
380	10/15/2014	Safe Work Observation	Dolan Directional	Barricades were properly set up and spaced 2 feet away from the excavation	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
381	10/15/2014	Safe Work Observation	RES Earth and Cable	Employee backed spool trailer properly and requested a spotter	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
382	10/15/2014	Safe Work Observation	RES Earth and Cable	Employees used proper lifting techniques when taking spoil trailer off of the truck hitch	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
383	10/15/2014	Safe Work Observation	Nelson Wind	Finisher used proper foot placement when walking on concrete covered rebar	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
384	10/15/2014	Safe Work Observation	Nelson Wind	Finisher gave proper hand signals to concrete pump operator	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
385	10/16/2014	Safe Work Observation	RES Earth and Cable	Employees used proper communication when transporting the trencher to a different site	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
386	10/16/2014	Safe Work Observation	RES Earth and Cable	Employee had 3 spotters when backing up the trencher	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
387	10/16/2014	Safe Work Observation	Nelson Wind	Employees took precaution and moved away when rebar was being lowered by the crane into the excavation	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
388	10/16/2014	Safe Work Observation	Nelson Wind	Employee saw coworker struggling with rebar and helped him out	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
389	10/16/2014	Safe Work Observation	Building and Earth	Employee handled the wheel-barrel safely while transferring concrete to the concrete truck	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
390	10/16/2014	Safe Work Observation	Building and Earth	Employee had all PPE his job testing the concrete.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
391	10/16/2014	Safe Work Observation	RES Americas	Employee switched tasks and donned needed PPE for Task	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
392	10/16/2014	Safe Work Observation	RES Americas	When starting a new task, task was added to the JHA.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
393	10/16/2014	Safe Work Observation	RES Earth and Cable	Operator got out of equipment to direct trucks where to dump materials and where to drive.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
394	10/16/2014	Safe Work Observation	RES Earth and Cable	When vehicles were passing the maintainer operator moved his equipment out of the way to safely allow vehicles to pass.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
395	10/16/2014	Safe Work Observation	RES Earth and Cable	Excavation site crew member drove back to yard to get more T posts for excavation	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.



				barricades.		
396	10/11/2014	Damage	RES Earth and Cable	Water truck was damaged. Fuel Tank on passenger side. Investigation was held. No actual cause found	Employee was addressed and advised on reporting damages as soon as witnessed	Safety topic in morning meeting covering proper procedures as to reporting damages when seen
397	10/14/2014	Damage	RES Earth and Cable	Trenching was taking place when a dead wire was severed with teeth from track hoe	Corrective action not necessary because all procedures were properly followed	Continue utilizing dig number
398	10/14/2014	Safe Work Observation	RES Earth and Cable	When unloading a pallet from the back of a pickup truck the fork operator made sure he had a spotter and ground guide.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
399	10/14/2014	Safe Work Observation	RES Earth and Cable	When horses were loose on one of the main thoroughfare for the project an employee called site safety and let everyone know about the hazard and kept an eye on the horses until site safety arrived.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
400	10/14/2014	Safe Work Observation	RES Earth and Cable	Supervisor had great communication with all employees throughout the day with regards to getting them materials and equipment as needed.	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
401	10/2/2014	Safe Work Observation	RES Earth and Cable	Employees had cones placed around vehicle at the job site	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
402	10/2/2014	Safe Work Observation	RES Earth and Cable	Operator sounded horn prior to travel	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
403	10/2/2014	Safe Work Observation	Nelson Wind	Employees disengaged trailer and chocked it	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
404	10/2/2014	Safe Work Observation	Nelson Wind	Employees showed good use of spotters when backing up concrete trucks	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
405	10/15/2014	Safe Work Observation	Nelson Wind	Employee disengaged trailer and showed good use of double taglines using 3 and four person lifts when moving rebar	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
406	10/15/2014	Safe Work Observation	Nelson Wind	Employees set barricade under feed belt to prevent walking under it/ Pump was set up in safe distance away from excavation	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
407	10/17/2014	Safe Work Observation	Midwest Mobile	Operator placed outriggers in safe location away from the excavation	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
408	10/17/2014	Safe Work Observation	Midwest Mobile	Employee properly directed concrete trucks when backing up to the conveyor belt	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
409	10/17/2014	Safe Work Observation	RES Earth and Cable	Foreman showed great communication skills between himself and his crew	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
410	10/17/2014	Safe Work Observation	RES Earth and Cable	Operator set up the proper barricade before demobilizing	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
411	10/18/2014	Safe Work Observation	RES Earth and Cable	Operator showed proper use of his machinery	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
412	10/18/2014	Safe Work Observation	RES Earth and Cable	Operator took precaution when backfilling around the pedestal	None, this was a safe observation	Mentioned the good conditions in the next all hands meeting.
413	10/18/2014	Damage	RES Earth and Cable	A phone wire was severed in an area that was being trenched. There were no flags to show the existence of any utilities in the area. The phone company was contacted and they did confirm that the line was abandoned.	Corrective action not necessary because all procedures were properly followed	Mentioned to the cable crew that they were not at fault and to continue utilizing the one-call number.



### Exhibit 3 – Environmental Log

#	CLASS	SUB_CAT	CONTRACTOR	DATE	INCIDENT DETAILS	ACTION TAKEN TO CORRECT SITUATION	ACTION TAKEN TO PREVENT REOCCURANCE
39	Minor Incident (Below RQ)	Equipment Failure or leak	Nelson winds	10/13/2014	Fuel spilled while pulling out the hose after fueling the loader. Approximately 1/2 cups of fuel on the ground.	Picked up the spill with a shovel and send for to subcontractor's disposal pit.	Wait for 30 second before pulling out the fuel hose after fuelling to avoid drips on the ground.
40	Minor Incident (Below RQ)	Equipment Failure or leak	RES E&C	10/14/2014	Hydraulic fluid leaked over the equipment and leaked on the ground from an excavator. The hydraulic line was not connected properly when last checked by mechanic.	The leak was first contained using absorbent pads and drip pans. The spoil was collected using a backhoe and shovel and disposed into the special waste bin in the laydown yard.	The vehicle was removed from operation until fixed
41	Minor Incident (Below RQ)	Equipment Failure or leak	Building & Earth	10/15/2014	Unknown fluid leak from one of the personal vehicle. Possibly transmission oil spill on the laydown yard.	The affected soil was collected using a shovel and collected in a closed container.	Asked to check personal vehicles for any leaks every morning and repair the vehicle at the earliest.
42	Minor Incident (Below RQ)	Equipment Failure or leak	Midwest Mobil	10/16/2014	Diesel leak from an unknown vehicle on the driveway in the batch plant area.	The affected soil was collected using a shovel and disposed in the subcontractors waste area.	Asked to ensure all fuelling process using a diaper pad to avoid spill on the ground.
43	Minor Incident (Below RQ)	Equipment Failure or leak	Midwest Mobil	10/16/2014	Diesel leak from near the concrete truck staging area	The affected soil was collected using a loader and disposed in the subcontractors waste area.	Asked to ensure all fuelling process using a diaper pad to avoid spill on the ground.
44	Minor Incident (Below RQ)	Equipment Failure or leak	Pinkys Aggregate	10/16/2014	Pinkys Aggregate had a 3 gallon antifreeze spill between T4 and T5 due to loose radiator cap.	The affected soil was collected using a loader and sent with the subcontractor's truck to be disposed.	The vehicle was send off site operation to be fixed
45	Minor Incident (Below RQ)	Equipment Failure or leak	Nelson Winds	10/17/2014	Overflow was identified from the concrete washout pit at T13 site 6'x3'.	The spill was reported to Nelson Winds and was taken care by Nelson Winds. The affected soil was collected using a loader and disposed in the subcontractors waste area.	Advised to ensure the concrete truck maintain safe distance to avoid damage to the wash out pit. Maintain the wash out area to prevent overflow.



**Exhibit 4 – Quality Log**

- Incidents - None
- CPARs - None
- NCRs - Two by Xcel

**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)
TX 5 Geogrid Placement NCR-2014-026	0	0	1	0



## 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	
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	
4	Roads, Culverts	105 <sup>th</sup> Ave Sta. 15+25		USCF-001	Geogrid not replace after installation	10/14/2014	











### 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	3/10/2014
23053-02	Kyler Leen	RES	Chris Ayika	Xcel Energy - Transmission	Allowable Voltage Step Change	3/31/2014	4/4/2014	Electrical	5/1/2014
23053-03	Kyler Leen	RES	Chris Ayika	Xcel Energy - Transmission	Grid Voltage Profile	3/31/2014	4/4/2014	Electrical	5/1/2014
23053-04	Kyler Leen	RES	Bradley Morrison	Xcel Energy - Generation	Main Power Transformer Design	3/31/2014	4/4/2014	Electrical	4/21/2014
23053-05	Bob Tepp	RES	Ritchie Farmer	Vestas	Draka 35kV, 3x70mm <sup>2</sup> Down-Tower Cable Data	7/16/2014	7/18/2014	Electrical	7/23/2014
23053-06	David Calitz	RES	Bradley Morrison	Xcel Energy - Generation	Substation Capacitor Bank Configurations	7/31/2014	8/4/2014	Electrical	8/5/2014
23053-07	Kyler Leen	RES	Chris Ayika	Xcel Energy - Transmission	VAR Neutrality	8/5/2014	8/8/2014	Electrical	
23053-08	Bob Tepp	RES	Bradley Morrison	Xcel Energy - Generation	T58 Access Road Entrance Culvert Removal	8/13/2014	8/15/2014	Civil	8/14/2014
23053-09	Bob Tepp	RES	Bradley Morrison	Xcel Energy - Generation	Access Road Adjustment to T72 and T74	8/18/2014	8/20/2014	Civil	
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	
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	
23053-12	Bob Tepp	RES	Bradley Morrison	Xcel Energy - Generation	Access Road Adjustment to T31 and T32	8/18/2014	8/21/2014	Civil	
23053-13	Bob Tepp	RES	Bradley Morrison	Xcel Energy - Generation	Access Road Adjustment to T26	8/18/2014	8/21/2014	Civil	
23053-14	Bob Tepp	RES	Bradley Morrison	Xcel Energy - Generation	Access Road Adjustment to T22	8/18/2014	8/21/2014	Civil	8/28/2014
23053-15	Julio Lima	RES	Chris Ayika	Xcel Energy - Transmission	Peace Garden dead end structures GPS coordinates	8/21/2014	8/25/2014	Electrical	8/25/2014
23053-16	Kyler Leen	RES	Chris Ayika	Xcel Energy - Transmission	Dynamic Reactive Power Inputs	9/9/2014	9/16/2014	Electrical	
23053-17	Kyler Leen	RES	Richard Farmer	Vestas	WTG Conduit Type and Location	9/24/2014	10/1/2014	Electrical	10/3/2014
23053-18	David Calitz	RES	Bradley Morrison	Xcel Energy - Generation	HV and MV disconnect switch requirements	9/26/2014	10/3/2014	Electrical	
23053-19	Shabeeb Abdul Khader	RES	Bradley Morrison	Xcel Energy - Generation	Use aggregate from Marcel Pit	9/29/2014	10/1/2014	Civil	10/6/2014
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	
23053-21	Shabeeb Abdul Khader	RES	Bradley Morrison	Xcel Energy - Generation	Substation Foundation	10/8/2014	10/10/2014	Civil	10/9/2014
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	10/16/2014
23053-23	Shabeeb Abdul Khader	RES	Bradley Morrison	Xcel Energy - Generation	Access road adjustments to T33/34	10/13/2014	10/20/2014	Civil	10/16/2014
23053-24	Shabeeb Abdul Khader	RES	Bradley Morrison	Xcel Energy - Generation	Access road adjustments to T26	10/14/2014	10/21/2014	Civil	10/16/2014
23053-25	Aaron Thooft	RES	Bradley Morrison	Xcel Energy - Generation	Collector System - Circuit 5 route - realignment	10/15/2014	10/22/2014	Electrical	
23053-26	Roark Lanning	RES	Richard Farmer	Vestas	WTG Installation Manuals for the Mk7H and Mk10 V100-2.0 VCSS turbines	41928	41933	Electrical	

### Exhibit 6 – Three Week Look Ahead

ID	Task Name	Duration	Start	Finish	% Complete	13	14	15	16	17
1	Border Wind Farm - Construction Schedule - 160MW									
10	Design & Engineering	388.76 days	Wed 7/9/13	Thu 12/9/15	32%					
29	Electrical Engineering	191.76 days	Thu 1/16/14	Fri 10/10/14	76%					
44	Procurement - Long Lead Items	314.76 days	Tue 4/1/14	Mon 9/16/15	31%					
46	Grounding Transformers	261.76 days	Fri 8/27/14	Mon 9/16/15	0%					
48	Grounding Transformers (6 Units)	251.76 days	Fri 8/27/14	Mon 9/16/15	0%					
50	34.8kV MV Collection System - Procurement	90.76 days	Fri 8/27/14	Fri 10/3/14	41%					
51	MV Cable	90.76 days	Fri 8/27/14	Fri 10/3/14	25%					
53	Underground Fiber - X-LF	90.76 days	Fri 8/27/14	Fri 10/3/14	100%					
54	Cable Accessories	90.76 days	Fri 8/27/14	Fri 10/3/14	0%					
55	Rubber Goods	90.76 days	Fri 8/27/14	Fri 10/3/14	0%					
56	Substation - Procurement	261.76 days	Fri 8/27/14	Mon 9/16/15	7%					
57	Main Transformer	41.96 wks	Fri 8/27/14	Mon 9/16/15	0%					
58	Construction	346.76 days	Tue 7/1/14	Wed 10/28/15	89%					
59	Civil Works	346.76 days	Tue 7/1/14	Wed 10/28/15	81%					
67	Civil Construction - Roads	103.76 days	Tue 7/8/14	Fri 11/28/14	81%					
68	Clearing & Grubbing	78.76 days	Thu 7/17/14	Tue 11/4/14	89%					
83	Tower 15 to 20 (6 WTG's) (CKT 3A)	5 days	Thu 10/9/14	Thu 10/16/14	100%					
84	Tower 7 to 11 (5 WTG's) (CKT 4)	5 days	Thu 10/16/14	Thu 10/23/14	50%					
85	Tower 4 to 6 (3 WTG's) (CKT 3)	1.5 days	Thu 10/23/14	Fri 10/24/14	100%					
86	Tower 12 to 14 (3 WTG's) (CKT 3)	2 days	Fri 10/24/14	Tue 10/28/14	100%					
93	Public Road Upgrade	98.76 days	Mon 7/14/14	Fri 11/28/14	86%					
94	Upgrade Public Roads	99.76 days	Mon 7/14/14	Fri 11/28/14	86%					
95	Site Roads Installation	90.87 days	Thu 7/17/14	Thu 11/20/14	74%					
126	Tower 27 to 32 (8 WTG's) (Road K) - 9,280 LF	19.5 days	Tue 8/18/14	Mon 10/13/14	83%					
131	Install Base Material	4.5 days	Tue 10/7/14	Mon 10/13/14	50%					
132	Tower 1 to 3 (3 WTG's) (Road P) - 4,840 LF	17 days	Tue 8/23/14	Thu 10/16/14	62%					
134	Rough Grade Preparation	2.5 days	Thu 10/9/14	Tue 10/14/14	50%					
135	Install Base Material	2.5 days	Mon 10/13/14	Thu 10/16/14	25%					
136	Tower 21 to 28 (8 WTG's) (Road H, J, K) - 17,680 LF	24.5 days	Wed 8/24/14	Wed 10/28/14	100%					
138	Rough Grade Preparation	9 days	Tue 10/14/14	Mon 10/27/14	100%					
139	Install Base Material	9 days	Thu 10/16/14	Wed 10/29/14	100%					
140	Tower 38 to 39 (2 WTG's) (Road Q) - 2,060 LF	18 days	Mon 10/6/14	Thu 10/30/14	100%					
142	Rough Grade Preparation	1 day	Mon 10/27/14	Tue 10/28/14	100%					
143	Install Base Material	1 day	Wed 10/29/14	Thu 10/30/14	100%					
144	Tower 36 to 37 (2 WTG's) (Road Q) - 4,000 LF	17 days	Thu 10/9/14	Mon 11/3/14	0%					
145	Install Road - Entrance	3 days	Thu 10/9/14	Tue 10/14/14	0%					
146	Rough Grade Preparation	2 days	Tue 10/28/14	Thu 10/30/14	0%					
147	Install Base Material	2 days	Thu 10/30/14	Mon 11/3/14	0%					
148	Tower 33,34 (2 WTG's) (Road E) - 2,060 LF	16 days	Tue 10/14/14	Tue 11/4/14	11%					
149	Install Road - Entrance	1.5 days	Tue 10/14/14	Wed 10/15/14	25%					
150	Rough Grade Preparation	1 day	Thu 10/30/14	Fri 10/31/14	0%					
151	Install Base Material	1 day	Mon 11/3/14	Tue 11/4/14	0%					
152	Tower 16 to 20 (8 WTG's) (Road G, H) - 11,810 LF	18.83 days	Wed 10/16/14	Tue 11/17/14	20%					
153	Install Road - Entrance	3 days	Wed 10/15/14	Mon 10/20/14	50%					
154	Rough Grade Preparation	6 days	Fri 10/31/14	Mon 11/10/14	25%					
155	Install Base Material	6 days	Mon 11/3/14	Tue 11/17/14	0%					
156	Tower 7 to 11 (5 WTG's) (Road B, C) - 9,910 LF	20.83 days	Mon 10/20/14	Tue 11/18/14	0%					
157	Install Road - Entrance	4.5 days	Mon 10/20/14	Mon 10/27/14	0%					
158	Rough Grade Preparation	5 days	Mon 11/10/14	Mon 11/17/14	0%					
160	Tower 4 to 6 (3 WTG's) (Road B) - 2,780 LF	13.88 days	Mon 11/3/14	Thu 11/20/14	0%					
161	Install Road - Entrance	4.5 days	Mon 11/3/14	Fri 11/7/14	0%					
164	Tower 12 to 14 (3 WTG's) (Road F) - 4,050 LF	10.41 days	Fri 11/7/14	Fri 11/21/14	0%					
165	Install Road - Entrance	3 days	Fri 11/7/14	Wed 11/12/14	0%					
170	Turbine Foundation	282.76 days	Fri 7/18/14	Tue 7/21/15	66%					
171	Foundation Construction	98 days	Mon 7/21/14	Tue 12/2/14	64%					
173	Deliver Turbine Foundation Materials	55.75 days	Thu 8/7/14	Fri 11/7/14	50%					
235	Foundations - Tower 21 to 28 (8 WTG's)	8.75 days	Mon 9/28/14	Fri 10/10/14	62%					
239	Install Forms, Rebar & Pour Pedestal	3.5 days	Mon 10/6/14	Fri 10/10/14	33%					
240	Backfill	3 days	Tue 10/7/14	Fri 10/10/14	0%					
241	Foundations - Tower 36 to 39 (2 WTG's)	9 days	Mon 10/6/14	Tue 10/14/14	43%					
244	Install Forms, Bolt Cage, Rebar & Pour Base	1.5 days	Thu 10/9/14	Fri 10/10/14	40%					
245	Install Forms, Rebar & Pour Pedestal	1.5 days	Fri 10/10/14	Mon 10/13/14	0%					
246	Backfill	1 day	Mon 10/13/14	Tue 10/14/14	0%					
247	Foundations - Tower 33 to 34 (2 WTG's)	6 days	Wed 10/16/14	Wed 10/22/14	0%					
248	Strip Top Soil & Level Pad Sites	1 day	Wed 10/15/14	Thu 10/16/14	0%					
249	Excavate	1 day	Thu 10/16/14	Fri 10/17/14	0%					
250	Install Forms, Bolt Cage, Rebar & Pour Base	1.5 days	Fri 10/17/14	Tue 10/21/14	0%					
251	Install Forms, Rebar & Pour Pedestal	1.5 days	Mon 10/20/14	Wed 10/22/14	0%					
252	Backfill	1 day	Tue 10/21/14	Wed 10/22/14	0%					

ID	Task Name	Duration	Start	Finish	% Complete	2014	2015
253	Foundations - Tower 16 to 20 (6 WTGs)	7.6 days	Thu 10/16/14	Tue 10/28/14	12%	H2	H1
254	Strip Top Soil & Level Pad Sites	3 days	Thu 10/16/14	Tue 10/21/14	33%	H2	H1
255	Excavate	3 days	Fri 10/17/14	Wed 10/22/14	33%	H2	H1
256	Install Forms, Bolt Cage, Rebar & Pour Base	3.5 days	Tue 10/21/14	Fri 10/24/14	0%	H2	H1
257	Install Forms, Rebar & Pour Pedestal	3.5 days	Wed 10/22/14	Mon 10/27/14	0%	H2	H1
258	Backfill	3 days	Thu 10/23/14	Tue 10/29/14	0%	H2	H1
259	Foundations - Tower 7 to 11 (6 WTGs)	7.6 days	Tue 10/21/14	Fri 10/31/14	0%	H2	H1
260	Strip Top Soil & Level Pad Sites	2.5 days	Tue 10/21/14	Fri 10/24/14	0%	H2	H1
261	Excavate	2.5 days	Wed 10/22/14	Mon 10/27/14	0%	H2	H1
262	Install Forms, Bolt Cage, Rebar & Pour Base	3 days	Fri 10/24/14	Wed 10/29/14	0%	H2	H1
263	Install Forms, Rebar & Pour Pedestal	3 days	Mon 10/27/14	Thu 10/30/14	0%	H2	H1
264	Backfill	2.5 days	Tue 10/28/14	Fri 10/31/14	0%	H2	H1
265	Foundations - Tower 4 to 6 (3 WTGs)	7 days	Fri 10/24/14	Tue 11/4/14	12%	H2	H1
266	Strip Top Soil & Level Pad Sites	1.5 days	Fri 10/24/14	Mon 10/27/14	33%	H2	H1
267	Excavate	1.5 days	Mon 10/27/14	Tue 10/28/14	33%	H2	H1
268	Install Forms, Bolt Cage, Rebar & Pour Base	2 days	Wed 10/29/14	Fri 10/31/14	0%	H2	H1
269	Install Forms, Rebar & Pour Pedestal	2 days	Thu 10/30/14	Mon 11/3/14	0%	H2	H1
270	Backfill	1.5 days	Fri 10/31/14	Tue 11/4/14	0%	H2	H1
305	Electrical Installation	218.75 days	Tue 9/2/14	Mon 7/6/16	2%	H2	H1
305	34.5kV Underground Collection System	218.75 days	Tue 9/2/14	Mon 7/6/16	2%	H2	H1
309	34.5kV Underground Collection System Installation	218.75 days	Tue 9/2/14	Mon 7/6/16	2%	H2	H1
311	Circuit 1B Home Run (Substation-JB1B1-JB1B2)	5.5 days	Tue 10/7/14	Tue 10/14/14	0%	H2	H1
312	Circuit 2 Home Run (Substation-JB21-JB24)	10 days	Tue 10/14/14	Tue 10/28/14	0%	H2	H1
313	Circuit 3 Home Run (Substation-JB31-JB33)	7.5 days	Tue 10/28/14	Fri 11/7/14	0%	H2	H1
314	Circuit 4 Home Run (Substation-JB41-JB42)	6 days	Fri 11/7/14	Mon 11/17/14	0%	H2	H1
330	Substation Installation	213.8 days	Wed 10/1/14	Mon 7/27/16	1%	H2	H1
331	Substation Procurement	184.8 days	Wed 10/1/14	Tue 6/16/16	0%	H2	H1
332	230 KV Breaker	19 wks	Wed 10/1/14	Tue 3/18/15	0%	H2	H1
333	Manufacture 34.5 KV Circuit Breakers	28 wks	Wed 10/1/14	Mon 5/25/16	0%	H2	H1
334	Manufacture 230KV Switches	20 wks	Wed 10/1/14	Wed 3/18/15	0%	H2	H1
335	Manufacture 34.5 KV Switches	20 days	Wed 10/1/14	Wed 10/29/14	0%	H2	H1
337	Manufacture and Deliver Control Building	20 wks	Wed 10/1/14	Wed 3/18/15	0%	H2	H1
338	Substation Construction	218.06 days	Wed 10/1/14	Mon 7/27/16	7%	H2	H1
339	Subcontractor Mobilization	7 days	Wed 10/1/14	Fri 10/10/14	100%	H2	H1
340	Below Grade Conduit & Grounding	11 days	Thu 10/23/14	Fri 11/7/14	0%	H2	H1
341	Foundation Works	15 days	Fri 11/7/14	Fri 11/28/14	5%	H2	H1
354	Communications & Backup Power	86.87 days	Wed 10/1/14	Thu 1/28/16	0%	H2	H1
355	Design & Order T1 & POTS lines	3.2 mons	Wed 10/1/14	Wed 1/21/15	0%	H2	H1
357	Design & Order Backup Power for Control Building	3.2 mons	Wed 10/1/14	Wed 1/21/15	0%	H2	H1
361	O&M Building Installation	78 days	Mon 9/15/14	Tue 12/30/14	16%	H2	H1
363	Install Conduits & Pour Foundation	28 days	Mon 9/29/14	Thu 11/6/14	20%	H2	H1
364	Erect Building	20 days	Thu 11/6/14	Thu 12/4/14	0%	H2	H1
366	Met Instrumentation Installation	287.75 days	Mon 8/11/14	Wed 9/30/16	4%	H2	H1
367	Procure, Manufacture & Deliver to Site	35 wks	Fri 8/15/14	Mon 6/15/15	0%	H2	H1