



## BORDER WINDS ENERGY PROJECT

### WEEKLY PROJECT REPORT

Weekly report no:	41
Report for week period ending COB Friday:	05/08/2015
Calendar week no:	19

### Executive Summary

#### This Week's Highlights

- Received renewed North Dakota Pollutant Discharge Elimination System (NDPDES) permit on Wednesday 5/7/2015;
- Erection crew will start mobilizing on Monday, 5/11/2015;
- Completed subgrade for five (5) crane pads (T3, T25, T26, T27 & T28 on Circuit 5);
- Received response from RRC regarding the subgrade condition below the existing mud mats. Planning to remove the mud mats at T10 and T34 on Monday, 5/11/2015;
- Completed drilling for five (5) pier foundations;
- Steel for the static mast and dead-end structures was delivered on Friday, 5/8/2015;
- Coordinating with utility company to install underground cable for supply of power to the O&M building;
- Ongoing installation of sheet rock, insulation, and other interior build-out activities at the O&M building.

#### This Week's Key Issues

- Recordable injury incurred involving a Rosendin employee while offloading dunnage at the substation;
- Received 0.42" of rain on Thursday, 5/7/2015. Ongoing inspection to ensure all BMP are performing as required;
- Encountered rock while drilling pier foundations at substation. Core drilling rig will be required to "punch through" the rock;
- Low production due to wet and muddy conditions through most of the week.



## 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	1	0	1	0	20
Project To Date	1	1	10	21	69	495

**Previous Week's TRIR = 1.27 / Current Week's TRIR = 2.35**

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

**Previous Week's RES Safety Index = 0.87 / Current Week's RES Safety Index = 0.95**

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

### Weeks Highlights:

- During the all hands meeting, Site Safety held a class on Fire Extinguishers and Fire Prevention using RASWP 021, 1926 Subpart F and NFPA 101 and 10;
- With more team members arriving for both RES and site subcontractors, a review of the peer to peer observations and the safety walk procedures was conducted. Additionally a challenge was made to the site leadership team to conduct a minimum of two (2) safety walks per week;

### Weeks Issues:

- One property damage (cracked windshield) reported in this period;
- One recordable Injury - near amputation of a Rosendin team member's left pointer finger; Injury occurred when the employee's finger was pinched between steel and 4x4 posts as the employee was offloading the posts.

### Project Work Hours:

- Weekly Man-hours: 4,331.5
- Total Project Man-hours: 169,605.70
- Hours since Last Recordable Injury: 0



## 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	3	0	3
Project to Date	0	56	3	35

**Rolling Incident Score: Previous week: 0.96 / Current Week: 1.08**

$((\text{Major Incident} * 16) + (\text{Minor Incident} * 4) + (\text{Near Miss} * 0.25) + (\text{Observation} * 0)) * 1000 / \text{Total Man Hours}$

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

- Received renewed NDPDES permit on Wednesday 5/7/2015;

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

- Received 0.42" of rain on Thursday, 5/7/2015. Ongoing inspection to ensure all BMPs are performing as required;
- Site experienced three (3) minor leaks:
  - 2 cups of hydraulic fluid leaked from a skid steer while operating on the T26 crane pad due to normal wear on the O ring;
  - 3 cups of hydraulic fluid leaked from a skid steer while operating on the T27 crane pad due to a loose connection at the O ring;
  - 2 cups of hydraulic fluid leaked from a roller at the T3 crane pad site;
- Spotted a large bird - possibly a turkey vulture - on the north side of the project site near T25 & T26. Addressed at the all hands meeting to avoid any disturbance to any wildlife on site and to take pictures for proper identification.

## Quality

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

Type	RES Issued NCRs			RES Issued CPARs			Client Issued NCRs			Client Issued CPARs		
	Issued	Open	Closed	Issued	Open	Closed	Issued	Open	Closed	Issued	Open	Closed
Current Period	0	0	0	0	0	0	0	0	0	0	0	0
PTD	3	0	3	0	0	0	7	1	6	0	0	0

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

- Building & Earth checking densities for collector trench backfills, roads and culverts, testing Class 5 material gradations & processing proctors;
- Monitored construction at the O & M Building;
- RRC is testing soils at the substation and WTG Foundation excavations;
- Inspecting collector trenching & backfills;
- Inspecting culvert installations.



## SCHEDULE STATUS

Project duration	68
No. of weeks into contract	43
Contract time passed (%)	63%

Key Activities (Construction)	Weighted %	Percent Complete		
		Contract Schedule	Construction Schedule	Actual
Design Engineering	2.5%	100%	100%	100%
Roads	14%	100%	87%	85%
Crane Pads	6%	4%	4%	3%
Foundations	20%	100%	95%	95%
Collection System	20%	48%	41%	39%
Substation	10%	55%	37%	30%
WTG Delivery, Erection, MCC	20%	0%	0%	0%
O&M Building	5%	100%	66%	56%
Completion	2.5%	0%	0%	0%
Overall Actual Percent Complete				44%

## 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	No permit required.
Hwy Intersection for deliveries	ND State	RES Americas	5/18/2015	Application submitted

### CONSTRUCTION STATUS

Certificates	Total	Submitted	Signed
Foundation Completion Certificate	75	71	71
Mechanical Completion Certificate	75	0	0
Electrical Works Completion Certificate	1	0	0
Project Mechanical Completion Certificate	1	0	0
Project Substantial Completion Certificate	1	0	0
Project Final Completion	1	0	0



**ROADS & CRANE PADS**

Item	Weighted %	Budget	Total Completed	Total Remaining	Percent Complete
Roads	70%	Roads			69%
Clear and Grub	20%	152,837	152,837	0	100%
Subgrade	25%	152,837	141,346	11,491	92%
Place and Compact Road Base	30%	207,469	185,555	21,914	89%
Shoulders	15%	152,837	0	152,837	0%
Ditches	10%	152,837	0	152,837	0%
Crane Pads	30%	Crane Pads			3%
Shape and Compact Sub Grade	40%	75	9	66	12%
Place and Compact Road Base	60%	75	0	75	0%

**Comments:**

- Completed crane pad subgrade at T3, T25, T26, T27 & T28 on Circuit 5;
- Continued to maintain 52<sup>nd</sup> Ave and 108<sup>th</sup> St;
- New aggregate supplier hired for crane pad material supply. Aggregate placement to commence next week.

**FOUNDATIONS**

Item	Weighted %	Budget	Total Completed	Total Remaining	Percent Complete
Excavations	10%	75	71	4	95%
Mud Mats	5%	75	71	4	95%
Bases	45%	75	71	4	95%
Pedestals	20%	75	71	4	95%
Backfilled	15%	75	71	4	95%
Vestas Ground Kit	5%	75	71	4	95%

**Foundation Progress      95%**

**Comments:**

- Received response from RRC regarding the subgrade condition below the mud mat. Planning to remove the mud mat at T10 and T34 on Monday, 5/11/2015;
- Continued to dewater T4.



**COLLECTION SYSTEM**

Item	Weighted %	Quantity	Total Received	Total Remaining	Percent Complete
<b>Deliveries</b>	<b>30.0%</b>	<b>Deliveries</b>			<b>91%</b>
Grounding Transformers	10.00%	6	0	6	0%
MV Cable 3/0 AWG AL	15.00%	308,288	314,910	0	100%
MV Cable 350 Kcmil AL	7.50%	140,708	143,964	0	100%
MV Cable 750 Kcmil AL	15.00%	217,740	208,085	0	100%
MV Cable 1000 Kcmil AL	7.50%	88,167	90,485	0	100%
MV Cable 1250 Kcmil AL	20.00%	147,069	150,472	0	100%
Fiber 12 count	2.50%	328,520	336,590	0	100%
Fiber 120 count	2.50%	6,587	6,587	0	100%
Ground Cable	10.00%	299,663	299,663	0	100%
Junction Boxes	5.00%	28	28	0	100%
Rubber Goods	5.00%	1420	1420	0	100%
<b>Installations</b>	<b>50.0%</b>	<b>Installations</b>			<b>23%</b>
Trench	60%	278,230	70,996	207,234	26%
MV & Fiber/Ground Cable	30%	297,841	79,744	218,097	27%
Grounding Transformers	5%	6	0	6	0%
Junction Boxes	5%	28	0	28	0%
<b>Terminations</b>	<b>20.0%</b>	<b>Terminations</b>			<b>0%</b>
Grounding Transformers	10.00%	6	0	6	0.00%
Junction Boxes	30.00%	28	0	28	0.00%
Turbines	60.00%	75	0	75	0.00%

**Collection System Progress: 39%**

**Comments:**

- Continued trenching on circuit 6;
- Continued to plan for bore pipe grout installation;
- Continued to contact land owners for staking, clearing and trenching;
- Looking into possible feeder conduit change at substation;
- Ordered all material for collection cable support in towers;
- Bore contractor to remobilize to site on Tuesday, 5/26/2015;
- Continued sheath & insulation testing – VLF testing to commence next week.



**O&M BUILDING**

Activity Description	Required	Unit	Remains	% Comp.
Earthworks	100	%	5	95%
Foundation	100	%	3	97%
Deliver Building	100	%	0	100%
Building Enclosed	100	%	0	100%
Building Interior Framing	100	%	5	95%
Building Electrical	100	%	40	60%
Building HVAC	100	%	80	20%
Plumbing	100	%	30	70%
Building Interior Trim & Finishing	100	%	90	10%
Septic System	100	%	90	10%
Water Well	100	%	100	0%
Fence and Yard Rock	100	%	100	0%

**O&M Building Progress: 56%**

**Comments:**

- Continued installation of sheet rock, insulation and other interior build-out activities;
- Completed vapor barrier installation for the walls;
- Installed lighting fixtures inside the building;
- Ongoing plumbing installation inside the storm shelter/locker;
- Received comments from Xcel regarding the grading plan. Discussing with engineering to address slope and soil stabilization;
- Coordinating with utility company to install underground cable for power supply;
- Ongoing review of the updated schedule;
- RES is working with ABS to issue the subcontract and confirm the schedule with VTI for the security system installation;
- Received the plumbing installation certificate.



**SUBSTATION**

Item	Weighted	Required	Total Completed	Total Remaining	Percent Complete
<b>Design</b>	<b>20%</b>	<b>Design</b>			<b>70%</b>
Design Drawings	20%	100	70	30	70%
<b>Deliveries</b>	<b>35%</b>	<b>Deliveries</b>			<b>2.5%</b>
Structural Steel	5%	100	0	100	0%
Main Transformer	15%	100	0	100	0%
Control House	5%	100	0	100	0%
Relay Panel	2.5%	100	0	100	0%
Arrestors	2.5%	100	0	100	0%
Switches	2.5%	100	0	100	0%
Breakers	2.5%	100	100	0	100%
<b>Construction</b>	<b>45%</b>	<b>Construction</b>			<b>10%</b>
Grading & Drainage	5%	100	75	25	75.0%
Foundations	10%	100	36	64	36%
Underground/Grounding	5%	100	0	100	0%
Structural Steel Work	5%	100	0	100	0%
Equipment Installation	5%	100	0	100	0%
Control Building/Wiring	5%	100	0	100	0%
Transformer Fit Out	5%	100	0	100	0%
Commission	5%	100	0	100	0%
Fence, Gravel, & Clean Up	2.5%	100	0	100	0%

**Substation Progress: 21%**

**Comments:**

- Main Power Transformer containment pit was excavated and backfilled with pea gravel;
- Completed drilling for five preliminary pier holes. Boulders/rock encountered at average depth of 12-14 feet. REI mobilizing core drilling rig from Colorado which is scheduled to arrive on Friday, May 15, 2015;
- Steel for static mast and dead-end structures was delivered on Friday, 5/8/2015.

**Exhibit 1 – Site Photographs**



Substation – Drilling



Laydown – Contaminated soil bin removed off site



Collection System – Trenching Circuit 6



Collection System – Trenching Circuit 6



Crane pad – Subgrade preparation at T25



Crane pad – Subgrade at T3



O&M Building – Sheet rock/insulation work



O&M Building – Storm shelter work



**Exhibit 2 – Safety log**

#	Date:	Incident Observed During:	Incident Type:	Company Involved:	Incident Details:	Corrective Action Details:	Actions Taken to Prevent Reoccurrence:
516	5/5/2015	Safety Walk	Safe Work Observation	Rosendin	While conducting a self-inventory/ inspection of onsite equipment the Foreman for the contractor removed several slings from service due to finding damage.	None, this was a Safe Observation.	None, this was a Safe Observation.
517	5/5/2015	Safety Walk	Safe Work Observation	RES Earth and Cable	After noticing a leak of a piece of equipment the team member called in the leak to the environmental supervisor and lockout the equipment until service and repairs could be made.	None, this was a Safe Observation.	None, this was a Safe Observation.
518	5/5/2015	Safety Walk	Hazard Observation	Evergreen Cassion	A metal barricade put up around a pier hole bored at the substation has not hinged together properly.	Team members from Evergreen fixed the barricade so it would stand properly.	Pulled in all of the Evergreen team members and had a meeting with them that I liked that they had brought metal barricades with them to mark off the pier holes but that the barricades needed to be assembled as per the manufacturer's instructions.
519	5/6/2015	Safety Walk	Safe Work Observation	RES Americas	While driving North on 52nd Ave Safety Supervisor noticed several sections of metal banding used on bundles of material laying in the road. He stopped and picked up the metal sections and	None, this was a Safe Observation.	None, this was a Safe Observation.



					disposed of them.		
520	5/6/2015	Normal Work Activities	Damage	RES Earth and Cable	While conducting a morning inspection of his vehicle a team member discovered a crack in the windshield of his truck.	The truck was placed out of service and the vehicle is being scheduled for repair and maintenance.	Crew s was briefed on the importance of doing pre and post vehicle inspections.
521	4/23/2015	Normal Work Activities	Injury	RES Americas	One of our office workers went out to use the portable bathroom which has a wood shed built around it with heavy wood doors. The employee pinched her small right finger causing a small abrasion.	We covered the injury in the morning meeting for all employees to watch where they put their hands and to be aware of pinch points. Signs were placed on bathroom doors to watch hands.	Signs were placed on both bathroom doors warning of pinch points. Injury was also discussed in morning safety meeting.
522	5/6/2015	Safety Walk	Safe Work Observation	Rosendin	All barricades were in place around the excavation sites.	None, this was a Safe Observation.	None, this was a Safe Observation.
523	5/6/2015	Safety Walk	Safe Work Observation	A.B. Systems	All employees had donned correct PPE for the tasks they were completing.	None, this was a Safe Observation.	None, this was a Safe Observation.
524	5/6/2015	Safety Walk	Hazard Observation	A.B. Systems	Rebar at the building stoop represented a trip hazard.	Team members were asked to stop and build a ramp over the rebar to avoid the trip hazard and allow for ease an access into the O&M building.	Team members were briefed on the hazard at the O&M and the team members that built the ramp were recognized for removing the hazard.
525	5/6/2015	Safety Walk	Hazard Observation	RES Americas	Vehicles parked to close to rope barricades.	Team members were asked to move their vehicles forward to eliminate pulling down the barricades.	During the 7 May15 safety meeting all team members were talked to about positioning their vehicle so as to not risk the rope barricades getting caught on their vehicles.
526	5/6/2015	Safety Walk	Near Miss	RES Americas	Rope found underneath two	Rope was removed from under the	During the 7 May15 safety meeting all



					vehicles hitches and bumpers. Had the vehicles pulled away the barricades would have been pulled out.	hitches and bumpers of the vehicles.	team members were talked to about positioning their vehicle so as to not risk the rope barricades getting caught on their vehicles.
527	5/6/2015	Safety Walk	Safe Work Observation	RES Americas	Office layout has been modified to allow better flow of traffic and organization in the work space, eliminating clutter.	None, this was a Safe Observation.	None, this was a Safe Observation.
528	5/6/2015	Safety Walk	Hazard Observation	RES Americas	The metal locking mechanism in the wall locker has broken and fell out of the door when opened.	Safety Supervisor removed the metal section that was falling out.	Safety supervisor inspected all other style wall lockers to ensure the same problem wasn't present in those wall lockers.
529	5/6/2015	Safety Walk	Hazard Observation	RES Earth and Cable	Cut phone line.	Cut phone line reported	Phone company is aware of other lines cut on site this is another that was found and was reported to the phone company.
530	5/6/2015	Safety Walk	Near Miss	Unknown	Truck driver ran a stop sign.	RES manager reported to safety but could not identify the trucker or the company.	We will bring up the issue in the morning meeting to use caution at 4 ways and watch for drivers not stopping at these intersections.
531	5/6/2015	Safety Walk	Hazard Observation	RES Earth and Cable	At fuel tanks fire extinguisher not mounted in correct location.	Our tool foreman will move fire extinguisher to correct distance away from fuel tanks.	Fire extinguisher will be moved 25 ft. away from fueling tanks to meet regulations.
532	5/6/2015	Safety Walk	Hazard Observation	RES Earth and Cable	Scrap wood left on the ground in front of the general trash dumpster.	Wood needs to go into the wood bin and not on the ground.	Will talk to employees in the morning about proper trash clean up.
533	5/6/2015	Safety Walk	Hazard Observation	P.C.S.	Workers installing insulation were not wearing gloves.	The RES foreman talked to workers and corrected	RES foreman talked to workers and corrected issue and reported to



						issue.	the safety.
534	5/6/2015	Safety Walk	Hazard Observation	P.C.S.	Worker over at the O&M building failed to sign on JHA prior to starting work.	RES foreman had a meeting with workers about signing on to the JHA prior to starting work.	RES foreman had a meeting with worker about signing the JHA prior to starting work.
535	5/6/2015	Safety Walk	Safe Work Observation	RES Earth and Cable	Skid steer stopped when workers were moving around the equipment.	None, this was a Safe Observation.	None, this was a Safe Observation.
536	5/6/2015	Safety Walk	Safe Work Observation	RES Earth and Cable	Team members followed the steps and safety measures outlined in the towing work instruction when a semi-truck became stuck.	None, this was a Safe Observation.	None, this was a Safe Observation.
537	5/6/2015	Safety Inspection	Safe Work Observation	RES Earth and Cable	Section 3 Fire Prevention completed. Adequate at the time of inspection.	None, this was a Safe Observation.	None, this was a Safe Observation.
538	5/6/2015	Safety Inspection	Safe Work Observation	Rosendin	Section 11 Excavation and Shoring completed. Adequate at time of inspection.	None, this was a Safe Observation.	None, this was a Safe Observation.
539	5/6/2015	Safety Inspection	Hazard Observation	RES Earth and Cable	Section 4 Compound Electrics completed. Inadequate at the time of inspections. Three fuel tanks brought onsite were not hard wired into the breakers nor was there an emergency shut off installed. Tanks were hooked up and powered by extension cords.	The Electrical and Safety Manager informed the Civil Superintendent that the fuel tanks were no longer to be used until installed correctly. The extension cords removed and the tanks locked out.	A licensed electrician has been contacted to complete an install the power for the tanks in compliance with the NEC.
540	5/6/2015	Safety Walk	Hazard Observation	Rosendin	A review of the information on the cards revealed that the PTP card used did not have emergency contact	Rosendin was made aware of the lack of information and asked to include the emergency	A review of sub-contractor JHA's will be conducted for complete information.



					information.	information on the PTP card. No strike will be issued for this observation due to the PTP card being a company document and not one individual being responsible.	
541	5/8/2015	Normal Work Activities	Injury	Rosendin	While moving materials around during an off load of steel and employee got his left pointer finger caught between steel and 4x4 wood posts causing a large laceration and near amputation.	For the remainder of the off load of materials Rosendin Employees were directed to use assistance when handling and moving 4x4 posts used for cribbing and material storage. Rosendin Foreman and Safety will be required to evaluate manual unloading and try to determine another means to accomplish the offloading and handling of materials from flatbed trailers.	A Safety Stand Down will be held on Saturday 09May2015 with team members concerning the manual off loading, handling and placement of materials and equipment on the job site. Additionally with more trucks scheduled to arrive with the same materials loaded, Rosendin Electric on site Foreman and Safety will be required to provide documentation of internal Safety Stand Down and similar Materials Handling training conducted with Rosendin and Sub Contractor personnel for this incident and ways to correct or prevent a similar incident reoccurrence. Lastly Rosendin Foreman and Safety will be tasked with breaking down the causal factors of this incident to find where a safety control measure wasn't considered or wasn't used and the injured team member had to



							manually move the material.
542	5/8/2015	Safety Walk	Safe Work Observation	RES Earth and Cable	Great communication between crew members while moving materials for road repairs.	None, this was a Safe Observation.	None, this was a Safe Observation.
543	5/8/2015	Safety Walk	Safe Work Observation	RES Earth and Cable	When a crew member had a question related to the work process the entire crew got together and talked about it to find a safe solution.	None, this was a Safe Observation.	None, this was a Safe Observation.
544	5/8/2015	Safety Walk	Safe Work Observation	RES Earth and Cable	Great Team Work.	None, this was a Safe Observation.	None, this was a Safe Observation.

### Exhibit 3 – Environmental Log

#	CLASS	SUB-CAT	CONTRACTOR	DATE	INCIDENT DETAILS	ACTION TAKEN TO CORRECT SITUATION	ACTION TAKEN TO PREVENT REOCCURRENCE
23053-15-44	Observation	Wildlife	All	5/5/2015	Spotted a large bird - possibly a turkey vulture - on the north side of the project site near T25 & T26.	Described the bird at the all hands meeting and take pictures for proper identification.	Addressed at the all hands meeting to avoid any disturbance to any wildlife on site and take pictures for proper identification.
23053-15-45	Minor Incident (Below RQ)	Equipment Failure or leak	RES E&C	5/5/2015	2 cups of hydraulic fluid leaked from the skid steer while operating on the T26 crane pad due to normal wear on the O ring.	The leak was immediately controlled using absorbent pads. Used the skid steer to collect and dispose 2 ft3 of spoil into the contaminated soil bin.	Equipment was fixed before operating again.



23053-15-46	Minor Incident (Below RQ)	Equipment Failure or leak	RES E&C	5/5/2015	3 cups of hydraulic fluid leaked from the skid steer while operating on the T27 crane pad due to a loose connection at the O ring.	The leak was immediately controlled using absorbent pads. Used the skid steer to collect and dispose 2 ft3 of spoil into the contaminated soil bin.	Equipment was fixed before operating again.
23053-15-47	Minor Incident (Below RQ)	Equipment Failure or leak	RES E&C	5/6/2015	2 cups of hydraulic fluid leaked from the roller and leaked on to the drum at the T3 crane pad site.	The leak was controlled using absorbent pads and used a skid steer to collect and dispose 1 ft3 of spoil into the contaminated soil bin.	Equipment was fixed before operating again.
23053-15-48	Observation	Weather Event	All	5/7/2015	Received 0.42" of rain on the site. Water accumulated in different areas of the site	Perform BMP inspection and ensure all culverts inlets are clear of silt.	Ensure all BMPs are installed properly
23053-15-49	Observation	Informational	Waste Management	5/7/2015	The filled contaminated soil bin has been removed off site.	None	Empty contaminated soil bin already on site

### Exhibit 4 – Quality Log

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

### NCR log

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



**FIELD QUALITY CONTROL PROGRAM  
DEFICIENCY REPORT REGISTER**  
5/08/15

No.	Description i.e. Roads, Foundations, Electrical	LOCATION	Turbine #	Test Document No:	DEFICIENCY DESCRIPTION	DATE ENTERED	ESTIMATED COMPLETION DATE	DATE CLEARED
1	Roads, Culverts	Road K2 Sta. 21+00	T-28/T-29	USCF-001	Incorrect Culvert Installation	9/29/14		11/24/14
2	Roads, Culverts	Road W# Sta. 00+12	T-59	USCF-001	Incorrect Culvert Installation	9/29/14		
3	Foundations	T-49 Base	T-49	USCF-001	Foundation not protected for cold weather per ACI 306	10/08/14		11/05/14
4	Roads, Culverts	105 <sup>th</sup> Ave Sta. 15+25		USCF-001	Geogrid not replace after installation	10/14/14		
5	Roads, Culverts	Access Road T2	T-74	USCF-001	Road alignment incorrect, Culverts missing	9/30/14		
6	Roads, Culverts	N1 00+00	T-45	USCF-001	Culvert was not inspected prior or during backfill, improper material used for back fill	11/05/14		
7	Roads, Culverts	Access Road R1	T-63	USCF-001	Soft spots in road and Geogrid is damaged	10/25/14	5/27/15	
8	Roads, Culverts	Access Roads to T-9, T-10, T-11, T-34, T-		USCF-001	Class 5 material is out of specification, the roads need	11/13/14	6/20/15	



		35 & T-71			to be monitored for performance			
9	Roads, Culverts	Access road to T-13 Sta. 8+00	T-13	USCF-001	Geogrid was damaged and the repair was not witnessed by Quality	11/13/14	6/20/15	
10	Roads, Culverts	Culvert at T-26	T-26	USCF-001	Needs to be extended on west end	11/23/14	5/12/15	
11	Roads, Culverts	Access Road C2	T-10	USCF-001	The access road needs to be re-aligned per the land owner's request.	12/03/14	5/12/15	
12	Foundations	O&M Building		USCF-002	Stoop footer at S/E end of building has wrong backfill material	12/05/14	5/29/15	
13	Roads, Culverts	All		USCF-001	Need compaction test results for all roads.	4/08/15		
14	Roads, Culverts	All		USCF-001	Culvert detail needs to be followed-No culverts with correctly placed rip-rap and established grass.	4/08/15		
15	Roads, Culverts	C2.1	T-9	USCF-001	Culvert/LWC not installed around Station 4+00.	4/08/15	6/13/15	
16	Roads, Culverts	E1	T-33/T-34	USCF-001	Culvert/LWC not installed around Station 15+00. Large	4/08/15	6/13/15	



					boulders also installed under road base in the same area.			
17	Roads, Culverts	F2.1	T-13	USCF-001	Geogrid ripped and damaged. Needs to be replaced around Station 6+00.	4/08/15	5/27/15	
18	Roads, Culverts	H1.1	T-20	USCF-001	Culvert/LWC not installed around Station 2+00.	4/08/15	6/13/15	
19	Roads, Culverts	K1	T-26	USCF-001	Does not follow RFI No:23053-024.	4/08/15	During Reclaim	
20	Roads, Culverts	L1	T-50	USCF-001	Culvert install too high.	4/08/15	5/12/15	
	Roads, Culverts	Q2	T-36/T-37	USCF-001	Culvert/LWC not installed around Station 25+00. Geogrid ripped and damaged around Station 27+00 to Station 29+00. Needs to be replaced.	4/08/15	5/27/15	
21	Roads, Culverts	P1	T-3	USCF-001	Culvert installed too high.	4/08/15	5/12/15	
22	Roads, Culverts	W1	T-40	USCF-001	Culvert/LWC not installed around Station 6+00.	4/08/15	5/27/15	
23	Roads, Culverts	W2	T-58	USCF-001	Culvert/LWC not installed around Station 17+00.	4/08/15	5/27/15	
24	Roads, Culverts	W3	T-59	USCF-001	Large boulders installed under road base and around culvert, Culvert at the entrance	4/08/15	5/27/15	



					installed too high at both inlet and outlet.			
25	Roads, Culverts	O2	T-43	USCF-001	Culvert not installed at the entrance. Not on Plans. Conditions require	4/08/15		
26	Roads, Culverts	N1	T-45	USCF-001	Large boulders installed under road base and around the culvert.	4/08/15		
27	Roads, Culverts	N3	T-47	USCF-001	Large boulders installed under road base.	4/08/15		
28	Roads, Culverts	R1	T-63	USCF-001	Geogrid ripped and damaged. Needs to be replaced around Station 2+00.	4/08/15	5/27/15	
29	Roads, Culverts	R2	T-66	USCF-001	Culvert/LWC not installed around Stations 15+00 and 21+00.	4/08/15	5/27/15	
30	Roads, Culverts	R2.1	T-64	USCF-001	Culvert/LWC needs to be installed before the tower location.	4/08/15	5/27/15	
31	Roads, Culverts	S1	T-60/T-61/T-62	USCF-001	Large boulders installed under road base and around culverts on both sides on 52nd Ave, Culvert/LWC needs to be installed around Station	4/08/15		



					30+00.			
32	Roads, Culverts	T1	T-73	USCF-001	Culvert not installed at the entrance, Culvert/LWC not installed around Stations 19+00 and 33+00.	4/08/15	6/03/15	
33	Roads, Culverts	T2	T-74	USCF-001	Culvert not installed at the entrance, Temporary culverts installed for foundation construction around Station 3+00 - Permanent culvert(s) needs to be installed.	4/08/15	6/04/15	
34	Roads, Culverts	T3	T-75	USCF-001	Culvert not installed at the entrance.	4/08/15	6/04/15	
35	Roads, Culverts	105 <sup>th</sup> St		USCF-001	Geogrid damaged between Stations 55+00 and 80+00	4/08/15	6/04/15	
36	Roads, Culverts	107 <sup>th</sup> St		USCF-001	Culvert needed at the corner of 107th St. and Access Road O1, Corner of 107th St. and 52 Ave. large boulders used under road base material.	4/08/15	5/27/15	
37	Roads, Culverts	108 <sup>th</sup> St		USCF-001	Many areas from T23 to T3 where the geogrid has been damaged and there is not enough coverage class 5 material over the geogrid	4/08/15	5/27/15	



**Exhibit 5 – RFI Log**

\*Open RFIs and RFIs closed last week

	Generated By	Company	Sent To	Company	Subject	Date Sent	Response Requested By	Type: Civil, Electrical, etc.	Status / Comments	Date Closed
23053-30	Shabeeb Abdul Khader	RES	Bradley Morrison	Xcel Energy - Generation	Install crushed aggregate on the substation site	10/31/2014	11/6/2014	Civil	Xcel Responded. RES to perform density test.	
23053-78	Emad Alaydi	RES	Brad Morrison	Xcel Energy - Generation	Substation Backup RTU	4/22/2015	4/27/2015	Substation		05/07/15
23053-82	Emad Alaydi	RES	Brad Morrison	Xcel Energy - Generation	Substation testing and commissioning requirements	5/4/2015	5/8/2015	Substation		
23053-83	Emad Alaydi	RES	Brad Morrison	Xcel Energy - Generation	Public and Local IP address	5/4/2015	5/8/2015	Substation		
23053-84	Emad Alaydi	RES	Brad Morrison	Xcel Energy - Generation	T1 & POTS line	5/7/2015	5/13/2015	Substation		