



BORDER WINDS ENERGY PROJECT

WEEKLY PROJECT REPORT

Weekly report no:	52
Report for week period ending COB Friday:	07/24/15
Calendar week no:	30

Executive Summary

Week's Highlights

- A site-wide fire extinguisher, first aid kit, and spill kit inspection was conducted and it was found that all equipment was in good working order.
- All construction activities were affected due to frequent lightning stand down and inclement weather.
- Work on the O&M punch list will resume this Monday July 27, 2015. ABS has scheduled the plumber and electricians to be on site to complete related tasks.
- Continued testing throughout the substation, and a pre-energization meeting is scheduled this Monday July 27, 2015 with Xcel transmission to coordinate remaining activities.
- Completed two (2) mechanical completion walk-downs at WTGs T23 and T47.
- Vestas has corrected the WTG component delivery issues. WTG components are being delivered according to the agreed schedule and sequence.

Week's Key Issues

- AB Systems, O&M building subcontractor, was unable to track the water test results taken on the water system and an additional sample will be taken to perform the test.
- RES installed the turning gear at T59 at 5:00 pm on July 18, 2015. The turning gear needed to be re-phased but Vestas was unable to assist until July 20, 2015 at 9:30 am.
- Mechanical completion walkdown of T23 resulted in a high number of punchlist items. Meetings were held with the crews involved and the punchlist was reviewed. The mechanical completion walkdown of T47 was much improved.



Safety

Type	Lost Time	Recordable Injury (Medical Aid)	Minor Injury (First Aid)	Equipment Property Damage	Near Miss	Safety Walks
Current Period	0	0	0	2	1	4
Project To Date	1	3	12	36	83	608

*Full description of week's Safety Log plus the formulas for TRIR and Safety index calculation in Exhibit 2.

TRIR: Previous Week = 2.60 / Current week = 2.46

RES Safety Index: Previous Week = 0.69 / Current week = 0.62

Weeks Highlights:

- A site-wide fire extinguisher, first aid kit, and spill kit inspection was conducted and it was found that all equipment was in good working order.
- RES safety department has reinforced to all workers on site that RES's policy is a 100% tie off in all Vestas turbines including when accessing the basement.

Weeks Issues:

- Two damage incidents occurred:
 - Damage to a dump truck windshield, mirror and door as a result of a large piece of clay falling over the cab when loading material.
 - The RT crane ran over a generator that was placed near it.

Project Work Hours:

- Weekly Man-hours: 18,200.00
- Total Project Man-hours: 324,963.00
- Hours since Last Recordable Injury: 55,335.50



Environmental

Type	Major Incident	Minor Incident	Near Miss	Observation
Current Period	0	3	0	2
Project to Date	0	74	6	57

*Full description of week's Environmental Report and Rolling Incident Score formula in Exhibit 2.

Rolling Incident Score: Previous week: 0.68 / Current Week: 0.67

Week's Highlights:

- The site received 1.52" of rain on July 23, 2015.
- Replaced the three recycle (wood, cardboard, and plastic) bins on July 22, 2015. Vendor has agreed to replace these bins more frequently in order to keep up with the site needs.
- Continued to recycle materials on site.

Week's Issues:

- The substation silt fence was damaged; additional repair is required and will be scheduled with the labor crews.
- Observed three (3) leaks over the week which was controlled, cleaned and disposed in the contaminated soil bin:
 - Approximately three (3) gallons hydraulic fluid leaked from a side dump at T79 after the hydraulic hose blew off. The leak was controlled and cleaned by the civil crew.
 - Approximately three (3) gallons of oil leaked from the contaminated soil bin. RES applied absorbent pads and pillows to control the leak and Waste Management was notified to replace the bin and to ensure that the new bin has a thicker liner to avoid any leaks.
 - Approximately two (2) gallons of hydraulic fluid leaked from a forklift at the substation when it was started. The workers spotted the leak immediately and controlled the leak until the service company arrived to site to fix the issue.



Quality

Type	RES Issued NCRs			Client Issued NCRs		
	Issued	Open	Closed	Issued	Open	Closed
Current Period	0	0	0	0	0	0
PTD	4	1	3	9	3	6

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

NCRs Issued Details: A response to NCR-2015-024 was sent back to Xcel for approval.

RES CPARs Issued Details:

Week's Highlights:

- Building & Earth: Checking densities for collector trench backfills, roads, testing Class 5 material gradations every 2500cy, witnessed proof rolls for crane pads, taking compaction test for crane pad base & lifts and sampling & breaking grout cubes.
- Working on job books and Vestas mechanical completion books.
- Monitored grouting at T14, T15, T16, T17, T18, T-35, T-36, T-37, T-38, T-48, T49, and T52 & T-53.
- Inspecting collector trenching backfills.

Week's Issues:

- It was observed that some foundations had slopes with more than 2% as required per design. The issue was addressed adding clay and compacting it to reach required coverage for the foundation base.



SCHEDULE STATUS

Project duration	68
No. of weeks into contract	54
Contract time passed (%)	79%

Key Activities (Construction)	Weighted %	Percent Complete		
		Contract Schedule	Construction Schedule	Actual
Design Engineering	2.5%	100.0%	100.0%	100%
Roads & Crane Pads	20.0%	100.0%	87.0%	83%
Foundations	20.0%	100.0%	100.0%	100%
Collection System	21.5%	85.0%	85.0%	82.9%
Substation	15.0%	99.0%	99.0%	75.2%
O&M Building	6.0%	100.0%	99.0%	97%
WTG Delivery, Erection, & MCC	15.0%	44%	44%	35.3%
Overall Actual Percent Complete				79.3%

PROGRESS REPORT

PERMIT STATUS

Permit Type / Description	County / State	Responsible Group	Date Needed By	Status
FAA NOTAM	Federal	RES	Construction	OPEN
FAA Part 2	Federal	RES	Final Height	OPEN

CONSTRUCTION STATUS

Certificates	Total	Submitted	Signed
Foundation Completion Certificate	75	71	71
Mechanical Completion Certificate	75	1	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		80.0%	
Rough Grade	30%	137,622	152,837	(15,215)	111.1%
Sub Grade	30%	137,622	141,772	(4,150)	103.0%
1st Lift	20%	137,622	153,875	(16,253)	111.8%
Shoulders	10%	152,837	0	152,837	0.0%
Ditches	10%	152,837	0	152,837	0.0%
Crane Pads	30%	Crane Pads		88.2%	
WTG Site Ready for Delivery	30%	75	58	17	77%
Cut & Subgrade Compacted	40%	75	72	3	96%
Material Placed & Compacted	30%	75	67	8	89%

Road and Crane Pad Progress 83.0%

Comments:

- Continue to maintain roads to support WTG component delivery.
- Completed seven (7) turbine site for delivery and fourteen (14) crane pads with material.

FOUNDATIONS

Item	Weighted %	Budget	Total Completed	Total Remaining	Percent Complete
Excavations	10%	75	75	0	100.0%
Mud Mats	5%	75	75	0	100.0%
Bases	40%	75	75	0	100.0%
Pedestals	20%	75	75	0	100.0%
Earthing Kit	5%	75	75	0	100.0%
Backfill	20%	75	75	0	100.0%

Foundation Progress 100%

Comments:

- Completed



COLLECTION SYSTEM

Item	Weighted %	Quantity	Total Received	Total Remaining	Percent Complete
Deliveries	30.0%	Deliveries			100%
MV Cable	50.0%	901,972	314,910	0	100%
Fiber	40.0%	335,107	336,590	0	100%
Junction Boxes	5.0%	28	28	0	100%
Grounding Transformers	5.0%	6	6	0	100%
Installations	50.0%	Installations			88.0%
Trench	40.0%	278,230	260,114	18,116	93%
MV & Fiber/Ground Cable	50.0%	297,945	278,342	19,603	93%
Junction Boxes	10.0%	28	12	16	43%
Terminations	20.0%	Terminations			44.3%
MV Cable at WTG switch gear	45.0%	75	19	65	25.3%
Junction Boxes	35.0%	28	12	18	42.9%
Underground MV Splices	20.0%	27	25	3	89.3%

Collection System Progress: 82.9%

Comments:

- Collection crew continue work on Circuit 4 turbine run - Right of Way Clearing -29,731', Trenching – 30,586', Cable Installation – 34,263', Backfill of Trenching – 31,470'
- Terminated Switchgear at T31, T32, T38, T39, T26, T3, T43
- Installed Grounding at T30, T31, T32, T43
- Installed JB 2/1 and 2/3
- Terminated JB 2/2 and 2/3

O&M BUILDING

Activity Description	Weighted	Total	Remains	Completed
Design	4.0%	100%	0%	100%
Earthworks	8.0%	100%	0%	100%
Delivery	5.0%	100%	0%	100%
Building Erect and enclose	8.0%	100%	0%	100%
Grading and Drainage	6.0%	100%	10%	90%
Foundation Floor slab	9.0%	100%	0%	100%
Electrical prep, rough-in and trim out	5.0%	100%	0%	100%
Plumbing prep, rough-in and trim out	8.0%	100%	0%	100%
Internal Walls & Ceiling	9.0%	100%	0%	100%
Finishes prep, rough-in and trim out	12.0%	100%	0%	100%
HVAC	8.0%	100%	0%	100%
Septic System	4.0%	100%	0%	100%
Water Service	4.0%	100%	0%	100%
Cleaning and Shop Finish	4.0%	100%	0%	100%
Security System & Fence	4.0%	100%	13%	87%
Landscaping	1.0%	100%	90%	10%
Asphalt	1.0%	100%	100%	0%
Total				97%

Comments:

- The majority of the punch list items have been corrected. The remaining items have been captured in the final punch list shared with Xcel on July 15, 2015.
- The plumbers and electrician will be back on site on July 27, 2015 to finalize the punchlist items related to their work.
- VTI will be back on site next week for the final site visit to integrate with Xcel's server and equipment.
- ABS water quality test results are still pending. RES has taken a water sample to test by the ND Health Department.
- Remaining grading work outside the fence will commence in the end of July and landscaping work will follow.
- Asphalt work will be performed in mid-August.

SUBSTATION

Item	Weighted %	Budget	Total Completed	Total Remaining	Percent Complete
Engineering	10%	Engineering			100%
IFC Drawings	100%	100%	100%	0%	100%
Procurement and Delivery	20%	Procurement and Delivery			97%
Foundation Rebar & Cages	5.00%	100%	100%	0%	100.00%
Breakers - Low and High Sides	15.00%	100%	100%	0%	100.00%
Reactors, Cap Back and Switchers	20.00%	100%	100%	0%	100.00%
MPT 230/34.5kV	10.00%	100%	100%	0%	100.00%
Grounding Transformer	5.00%	100%	100%	0%	100.00%
EEE - Control Building with DC Station	15.00%	100%	100%	0%	100.00%
Grounding Wire, Rods and Accessories	5.00%	100%	100%	0%	100.00%
Dead End and Static Mast	5.00%	100%	100%	0%	100.00%
Structural Steel and Bus	10.00%	100%	100%	0%	100.00%
MET Tower Foundation	5.00%	100%	100%	0%	100.00%
Chain Link Fence and Gates	5.00%	100%	30%	70%	30.00%
Construction	70%	Construction			66%
Site Preparation & Grading	3.00%	100%	95%	5%	95.00%
Site Aggregate and Finishing Rock	3.00%	100%	75%	25%	75.00%
Foundations work for substation	9.00%	100%	100%	0%	100.00%
Breakers, Switches, PTs, CTs	12.00%	100%	80%	20%	80.00%
Reactors, Cap Back and Switchers	8.00%	100%	75%	25%	75.00%
EEE - Energize and Finish	4.00%	100%	80%	20%	80.00%
Ground Grid, Conduits, Trenwa	12.00%	100%	70%	30%	70.00%
Structural Steel, Risers, Bus	12.00%	100%	80%	20%	80.00%
Collection Risers/Feeders and GTs	8.00%	100%	70%	30%	70.00%
EEE Wire Pull, Termination and Test	5.00%	100%	50%	50%	50.00%
SCADA Fiber Optic Cables Pull	4.00%	100%	0%	100%	0.00%
Chain Link Fence, Gates	4.00%	100%	20%	80%	20.00%
MPT Testing and Commissioning	4.00%	100%	90%	10%	90.00%
MET Tower Install, Wiring and Testing	4.00%	100%	40%	60%	40.00%
Substation Commissioning	6.00%	100%	10%	90%	10.00%
Hand over of Job Books	2.00%	100%	0%	100%	0.00%

Substation Progress 75.2%

Comments:

- MPT Assembly finished and MPT was being filled with oil and tested;
- Terminating wiring for Cap Bank and Reactor;
- Installed Aggregate west side of the station;
- Completed terminations in EEE for control wiring;
- Set and tested the 34.5KV switch linkage;
- Installed the static wire to the POI;
- Functional, point to point, and relay testing on going throughout the substation.

TURBINES

Item	Weighted %	Quantity	Total Received	Total Remaining	Percent Complete
Deliveries	20.0%	Deliveries			66.9%
Base	15.0%	75	51	24	68.0%
Mid	14.0%	75	50	25	66.7%
Upper Mid	14.0%	75	50	25	66.7%
Top	14.0%	75	50	25	66.7%
Nacelle	14.0%	75	50	25	66.7%
Hub	14.0%	75	50	25	66.7%
Blades	15.0%	75	50	25	66.7%
Installations	50.0%	Installations			36.2%
Base	17.0%	75	51	24	68.0%
Mid	16.0%	75	31	44	41.3%
Upper Mid	16.0%	75	19	56	25.3%
Top	17.0%	75	19	56	25.3%
Nacelle	17.0%	75	18	57	24.0%
Blades	17.0%	75	17	58	22.7%
MCC & Commissioning	50.0%	Mechanical Completions			0.9%
Walk downs	33.3%	75	2	73	2.7%
MCC Submitted	33.3%	75	0	75	0.0%
MCC Signed	33.4%	75	0	75	0.0%

Turbine Progress: 35.3%

Week's Highlights

- Completed two (2) mechanical completion walkdowns T23 and T47.
- Vestas has corrected the delivery issues. Turbines are being delivered according to the agreed schedule and sequence.
- A total of 15 employees were trained in tower rescue.
- The line cuts for crane walks were coordinated well.

Week's Issues

- Delay in completing the installation at T59 due to the lack of support from Vestas on Saturday July 18 in wiring the Pennella turning gear in the proper phasing. The work resumed on Monday.
- Additional delays at T59 on Monday July 20 due to missing the dummy plugs to operate the turning gear.
- Turbine installation and deliveries were affected due to frequent lightning stand down and inclement weather.
- RES and Vestas encountered some coordination issues on the first Turbine walk. These issues were discussed and resolved in the second walk at T47, which will be evident once the punchlist is released.
- Heavy rain on the evening of July 23, 2015, with an accumulation of 1.52" rain, which resulted in WTG component delivery shut-down on July 24, 2015 and low production for the tower installation team.

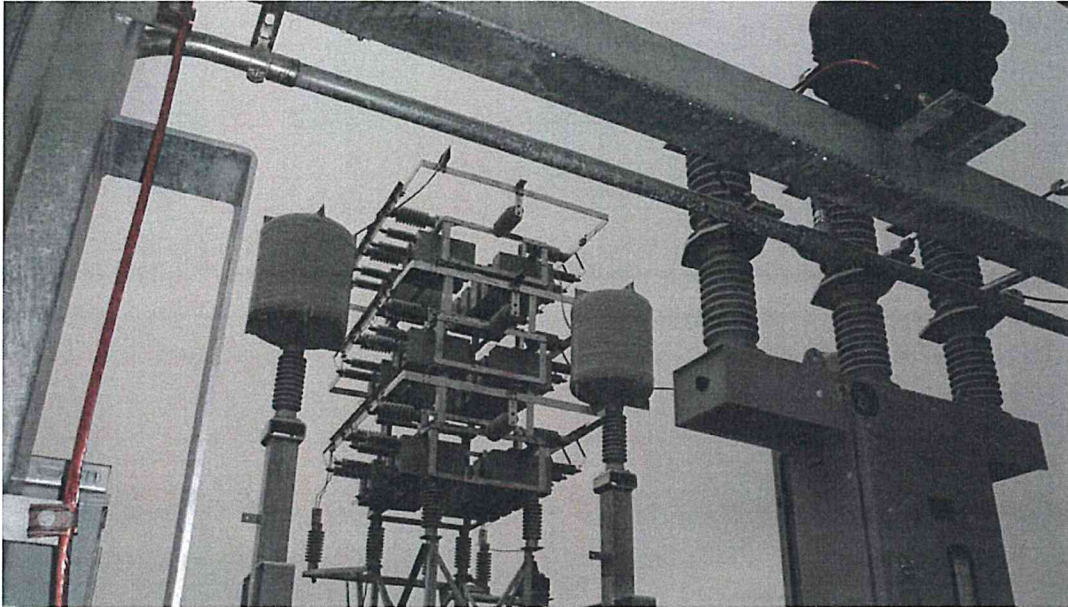
Exhibit 1 – Site Photographs



Appreciation from Corporate Office at All-Hands Meeting



Substation – Transformer



Substation – Cap Banks



Site view from T39



Lifting the LM at T39



Pics from the rescue training



Exhibit 2 – Safety Log

Formulas for TRIR and RES Safety Index calculation:

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

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

$$((1 * 64) + (1 * 16) + (10 * 4) + (26 * 1) + (74 * .25)) / \text{Total Project Man Hours} * 1000$$

#	Date:	Incident Observed During:	Incident Type:	Company Involved:	Incident Details:	Corrective Action Details:	Actions Taken to Prevent Reoccurrence:
737	7/20/2015	Safety Walk	Safe Work Observation	RES Americas	Site Safety good JHA, under nacelle cones off, good use on all PPE.	None, this was a Safe Observation.	None, this was a Safe Observation.
738	7/20/2015	Safety Walk	Hazard Observation	RES Americas	Road Barrier not blocking road to prevent unauthorized vehicles on pad during erection.	Talked to Foreman on site to make sure barricades are in place before erection starts.	Talked to foreman on site to corrected nonconformance.
739	7/20/2015	Safety Walk	Hazard Observation	RES Americas	T-1 Tower erection crew, a rebel flag was placed on to the RT crane.	This crew was asked to remove flag last week.	RES Erection foreman has been notified and he will make sure flag is removed.
740	7/21/2015	Safety Inspection	Safe Work Observation	RES Americas	21 Vehicle safety- Inspected everyone's fire extinguishers, first aid kits and spill kits everyone equipment was in good working order.	None, this was a Safe Observation.	None, this was a Safe Observation.
741	7/21/2015	Safety Inspection	Safe Work Observation	RES Americas	21 Vehicle safety- Inspected everyone's fire extinguishers, first aid kits and spill kits everyone equipment was in good working order.	None, this was a Safe Observation.	None, this was a Safe Observation.
742	7/21/2015	Safety Inspection	Safe Work Observation	RES Americas	21 Vehicle safety-inspections found one fire extinguisher not charged.	Replace fire extinguisher.	Fire Extinguisher was replaced.



#	Date:	Incident Observed During:	Incident Type:	Company Involved:	Incident Details:	Corrective Action Details:	Actions Taken to Prevent Reoccurrence:
743	7/21/2015	Normal Work Activities	Near Miss	RES Americas	Nelson Wind accessing basement without using fall protection.	Work Instruction for basement access provided and retraining.	Talked to RES Manager and Nelson wind foreman that all VESTAS turbines are 100% tie off for basement access, RES work instructions provided, RES Manager stated this was allowed at the Keechi Wind Project, I reminded everyone that it is 4 ft. tie off per new OSHA Regulations in a wind turbine VESTAS basements are 11.5 ft. .
744	7/22/2015	Safety Walk	Hazard Observation	RES Erection	The exterior turbine steps had a distance of 2" from the ground to the bottom step.	Timber dunnage was placed at the bottom to make the step distance less.	Inspector talked with installers and made them aware that if the steps do not create a safe step height they need to install dunnage to correct the distance to make the step height correct.
745	7/22/2015	Safety Walk	Safe Work Observation	RES Americas	An operator stopped his equipment and grounded his bucket so the vehicle could pass safely.	None, this was a Safe Observation.	None, this was a Safe Observation.
746	7/22/2015	Safety Walk	Safe Work Observation	RES Americas	After an incident resulting in damage to a vehicle, crews loaded plywood into the bed of a truck to ensure damage to truck wouldn't occur.	None, this was a Safe Observation.	None, this was a Safe Observation.



#	Date:	Incident Observed During:	Incident Type:	Company Involved:	Incident Details:	Corrective Action Details:	Actions Taken to Prevent Reoccurrence:
747	7/22/2015	Safety Walk	Safe Work Observation	RES Americas	All team members that needed to use fall protection donned harnesses before commencing work.	None, this was a Safe Observation.	None, this was a Safe Observation.
748	7/22/2015	Safety Walk	Safe Work Observation	RES Americas	All identifiable tasks were listed on JHA.	None, this was a Safe Observation.	None, this was a Safe Observation.
749	7/22/2015	Normal Work Activities	Damage	RES Americas	Using a track hoe a team member was loading material into the back of a dump truck. A large piece of clay that was in the bucket fell out and rolled onto the top of the cab, down the windshield and onto the hood of the truck. Resulting in damage to the door frame, windshield and mirror.	Operator and superintendent had the materials pile broken up more so large pieces of clay would not be in the bucket. The team member also reevaluated his work procedure so that he could keep materials from falling anywhere but into the bed of the dump truck.	Superintendent of civil crews discussed the incident with all team members so that everyone could learn from the incident and corrective actions he and the operator took.
750	7/22/2015	Normal Work Activities	Damage	RES Americas	A portable generator was placed on the ground near a RT crane after a walk around had been completed. The RT crane moved to relocate and ran over the generator crushing it.	The supervisor got with the new team members and educated him on the correct positioning of equipment and work around cranes.	Superintendent took responsibility for the incident and indicated he needed to retrain the team members and make sure he understood the way work needed to be done.



Exhibit 3 – Environmental Log

Formula for the Rolling Incident Score =

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

#	CLASS	SUB-CAT	CONTRACTOR	DATE	INCIDENT DETAILS	ACTION TAKEN TO CORRECT SITUATION	ACTION TAKEN TO PREVENT REOCCURRENCE
93	Minor Incident (Below RQ)	Equipment Failure or leak	RES	7/20/2015	Approx. 3 gallons of oil leaked from the contaminated soil bin in the laydown yard.	Applied absorbent pads and pillows to control the leak.	Waste Management was notified to replace the bin and to ensure that the bin have a thicker liner to avoid any leaks
94	Minor Incident (Below RQ)	Equipment Failure or leak	RES	7/22/2015	3 gallons hydraulic fluid leaked from a side dump at T79 after the hydraulic hose blew off. The leak was controlled and cleaned by the civil crew.	The spoil was collected using a backhoe and disposed in the contaminated soil bin.	Advised everyone to inspect the equipment for leaks every morning.
95	Observation	Informational	All	7/23/2015	The filled wood, plastic, and cardboard recycling bins have been removed off site.	None	Replace the filled bins more frequent
96	Minor Incident (Below RQ)	Equipment Failure or leak	REI	7/23/2015	2 gallons of hydraulic fluid leaked from a forklift at the substation when it was started. The workers spotted the leak immediately and controlled the leak until the service company arrived to site to fix the issue.	The workers stopped the equipment and applied absorbent pads to control the spill. Also, collected and disposed the contaminated soil into the proper bin	Advised the workers to inspect the equipment prior to operating it
96	Observation	Weather Event	All	7/23/2015	Received 1.52" of rain		



Exhibit 4 – Quality Log

- Incidents - None
- CPARs - 1
- NCRs - 9

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			4	6
NCR CPAR 23053-004 Sent to Vestas concerning the high rate of damage to the turbine blades during shipping			X	
NCR-2015-024 Concerning tower door to be facing south.			X	
NCR-2015-016 Backfills and compactions of the turbine bases in freezing conditions			X	
NCR-2014-38, T3 grounding was not installed per specifications			X	



Exhibit 5 – RFI Log

Outgoing RFIs

	Generated By	Company	Sent To	Company	Subject	Date Sent	Response Requested By	Type: Civil, Electrical, etc.	Status / Comments	Date Closed
23053-030	Shabeeb Khader	RES	Bradley Morrison	Xcel Energy - Generation	Install crushed aggregate on the substation site	10/31/14	11/6/14	Civil	Xcel Responded. RES to perform density test.	
23053-092	Emad Alaydi	RES	Jayne Orrock	Xcel Energy - Generation	Fiber termination inside the turbine	06/16/15	06/22/15	Turbine	Xcel response received 6/17/15- RES responded 7/22/15	
23053-096	Emad Alaydi	RES	Ritchie Farmer	Vestas	Ice detection documentation	06/22/15	06/29/15	SCADA	Vestas responded on 6/23/15. Requested additional information from RES	
23053-098	Emad Alaydi	RES	Ritchie Farmer	Vestas	VPN Tunnel in tunnel communication	06/25/15	07/02/15	Turbine		
23053-100	Emad Alaydi	RES	Chris Ayika	Xcel Transmission	Fiber Transceiver	06/30/15	07/08/15	BW Substation	Xcel responded 7/1/2015. RES responded on 7/13/15	
23053-102	Shabeeb Abdul Khader	RES	Peter Doherty	Xcel Energy - Generation	Access Road Adjustment to T9, T10, T11	07/16/15	07/23/15	Civil		
23053-103	Shabeeb Abdul Khader	RES	Peter Doherty	XCEL Energy Generation	Specifications for Turbine sign	07/17/15	7/324/15	Turbine	Xcel's response received 07/22/15	07/22/15
25035-104	Emad Alaydi	RES	Sean Simmons	Vestas	Fiber Installation in the Turbines	07/23/15	07/31/15	Turbine		



Exhibit 6 - Change Order Request Log

CO No.	Date Identified	Date Submitted	Date Executed	Description	Value of CO	Comments
1	06/11/15			Change in the landscaping design - larger trees for windbreak at O&M	\$ 3,176.00	RES and Xcel agreed to split total cost of \$6,352.00
2	06/11/15			Storm shelter changes at O&M	\$ 11,907.00	RES to request additional information from ABS on who directed the changes
3	06/11/15			Changes in final design vs specification of electrical layout at O&M	\$ 11,151.00	RES is still working through the changes
4	06/11/15			Changes in security system at O&M	\$ 8,936.00	Xcel requested breakdown of changes and the delta
5	06/11/15			Changes in the Control Building - Increasing the station service transformer, additional switch requests, and additional landings at entrance doors	\$ 36,141.00	<p>Station Service transformer sizing – Original station service transformer sizing was done at 50kVA. This was based on historic numbers initially and was later proven by station service calculations. Xcel requested to change this to 100kVA, since that is the Xcel standard (was requested at the 90% design review meeting). RES reviewed the Xcel standards provided and did not see this requirement anywhere in the standards provided. This increase in station service size also required upgrading multiple disconnect and safety switches from 200A to 400A rating in order to meet the requirements of the 100kVA station service transformer to be installed per the Xcel direction/request.</p> <p>Additional switch requests - Xcel requested during the 90% design review meeting that safety disconnect switches be moved from inside the control building to the outside. This requires the installation of waterproof cabinets for the switches. Xcel also requested an additional yard cabinet to connect and supply larger equipment from the AC system.</p> <p>Addition of landings at entrance doors – this was added at the 90% design review meeting per Xcel request and was not evident for the provided Xcel specifications.</p>



CO No.	Date Identified	Date Submitted	Date Executed	Description	Value of CO	Comments
6	06/11/15			Upgrade from SEL351 to SEL421 relay and bus relays at the substation	\$ 163,789.00	Industry standard for wind farm collection circuits are to install SEL351 relays (O/C & G/F) relays to protect the collector systems. Collection systems (although balanced) are considered distribution circuits, since they are four wire systems, with a ground reference transformer connected to each circuit. The collection circuits are insulated to 150kV BIL, which is further evidence that they are considered as distribution feeders (compared to the 200kV BIL insulation levels typically associated with transmission lines/circuits). Xcel identified the requirement to install SEL 351 relays on Distribution feeders. During design review meetings, Xcel classified these as transmission lines and required the installation of step distance protection (SEL421 relays). This resulted in additional cost. The 34.5kV bus differential relays subsequently were also upgraded from distribution bus relays to transmission class bus diff relays with 100% redundancy
7	06/11/15			Addition of three additional shield masts at the substation	\$ 73,838.00	The original substation design utilized a combination of shield masts and shield wires in order to establish a lightning shielding system for the substation equipment. During the 60% design review meeting Xcel indicated they do not allow shield wires to span over top of equipment and requested that the shield wires be removed and that lightning shielding protection be done with shield masts. This requirement is not seen in any of the supplied specifications. This required the addition of 3 additional shield masts and thus additional cost.
8	06/11/15			Addition of anchor/rigging points for the oil containment based on the change to above ground containment system at the substation	\$ 36,907.00	Xcel required an above grade containment system with a removable wall and built in rigging/anchor points in the containment system. This was not evident in any of the provided specifications or the contract agreement. The above grade construction as such does not add cost, but the inclusion of the removable wall and the addition of the anchor/rigging points that is integrated into the oil containment system does add cost
9	06/11/15			Addition of separate relay/plc controller to control the capacitor banks at the substation	\$ 23,510.00	Typical capacitor bank controls on wind farms are done by the wind farm controller through the SCADA system. Xcel requested during the 90% design review not to control the equipment through the SCADA system, but rather have a separate relay/plc controller to control the capacitor banks. This required the installation of an additional relay in order to have a dedicated controller for the capacitor banks. This was not evident from any of the supplied specifications, since Xcel does not have a standard specification for 34.5kV capacitor banks.

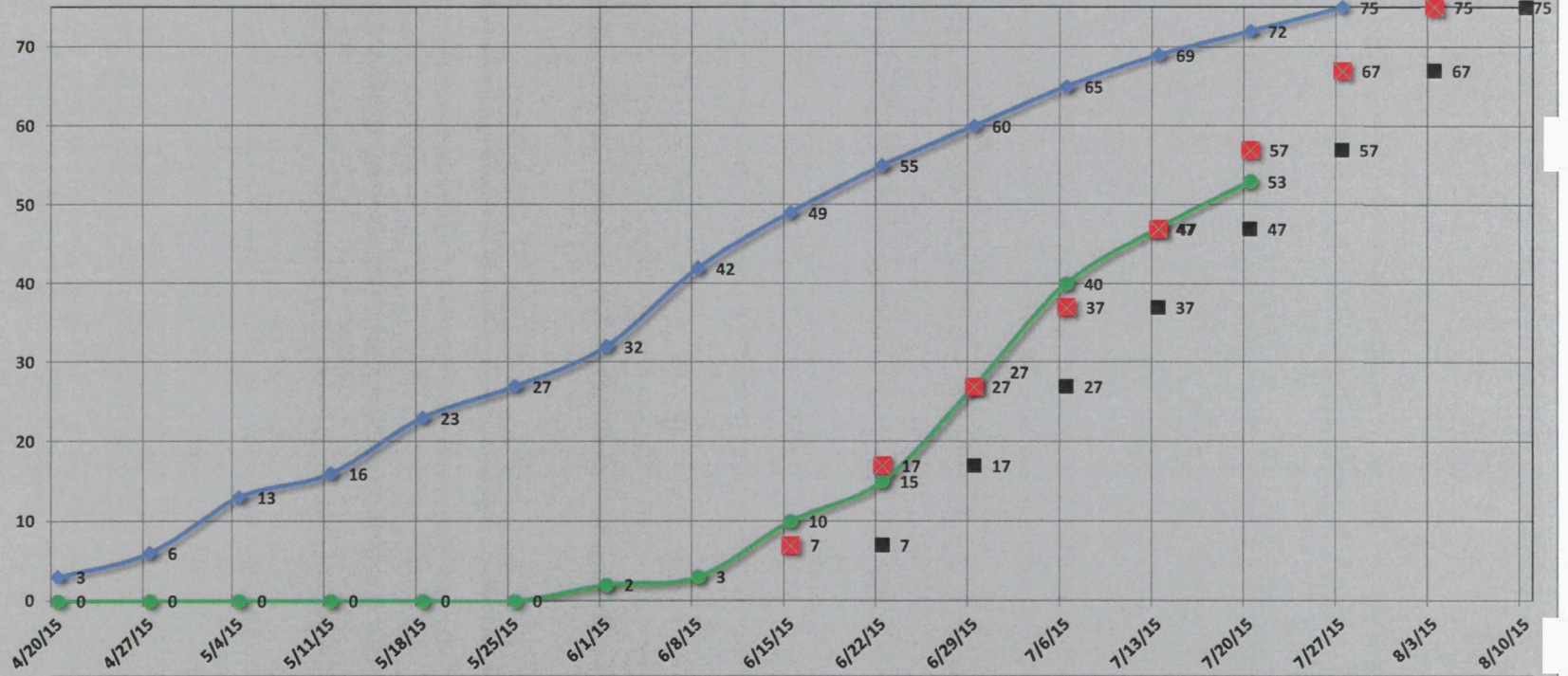


CO No.	Date Identified	Date Submitted	Date Executed	Description	Value of CO	Comments
10	06/11/15			Upgrade to the capacitor bank interlock system	\$ 10,846.00	Typical interlocks for capacitor banks only include a time delay after opening the associated capacitor/circuit switched to release a key that will unlock the ground switch and lock the switcher in the open position. Xcel requires a much more elaborate system, which in turn costs more. This was not identified in any of the supplied standard and was determined as designs progressed.
TOTAL					\$ 379,294.00	

Last Updated: 7/20/2015

Border Winds - Crane Pad Completion Progress Chart

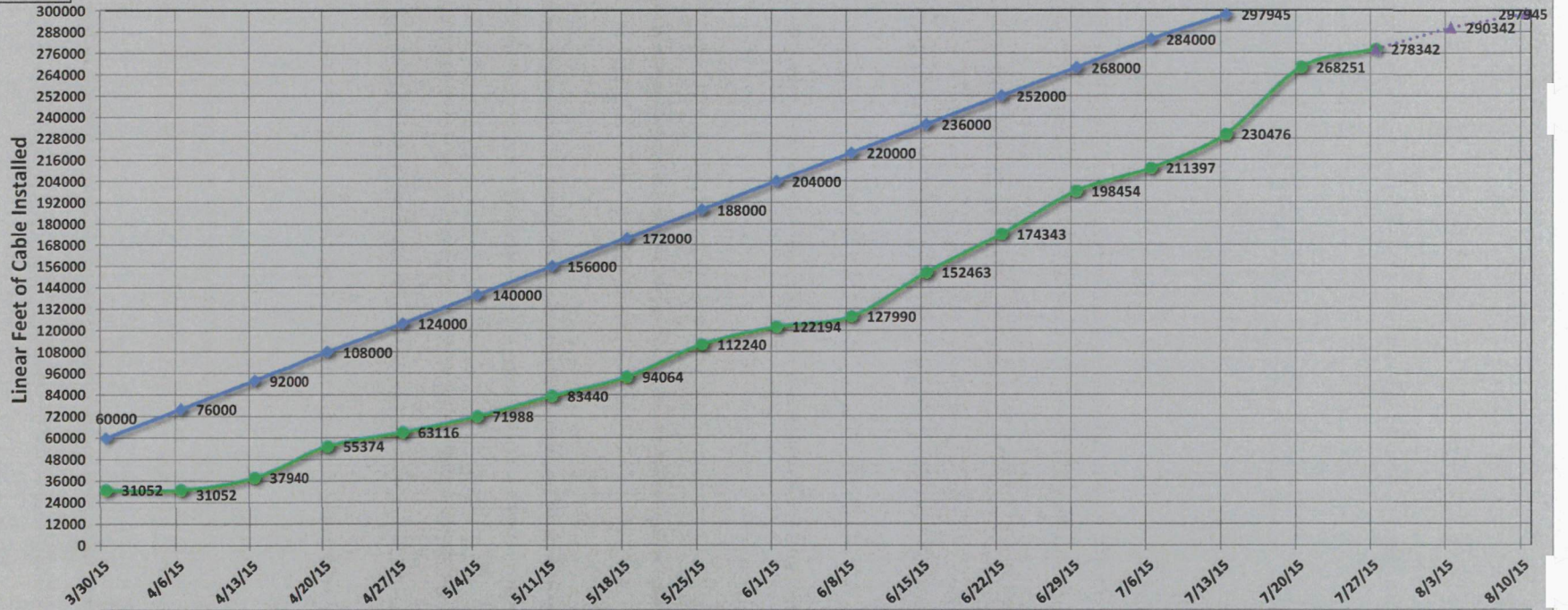
Number of Crane Pads Complete



	4/20/15	4/27/15	5/4/15	5/11/15	5/18/15	5/25/15	6/1/15	6/8/15	6/15/15	6/22/15	6/29/15	7/6/15	7/13/15	7/20/15	7/27/15	8/3/15	8/10/15
Planned Crane Pads Complete	3	6	13	16	23	27	32	42	49	55	60	65	69	72	75		
Actual Crane Pads Complete	0	0	0	0	0	0	2	3	10	15	27	40	47	53			
Anticipated WTG Deliveries									7	17	27	37	47	57	67	75	
Guaranteed WTG Deliveries										7	17	27	37	47	57	67	75

Last Updated: 7/27/2015

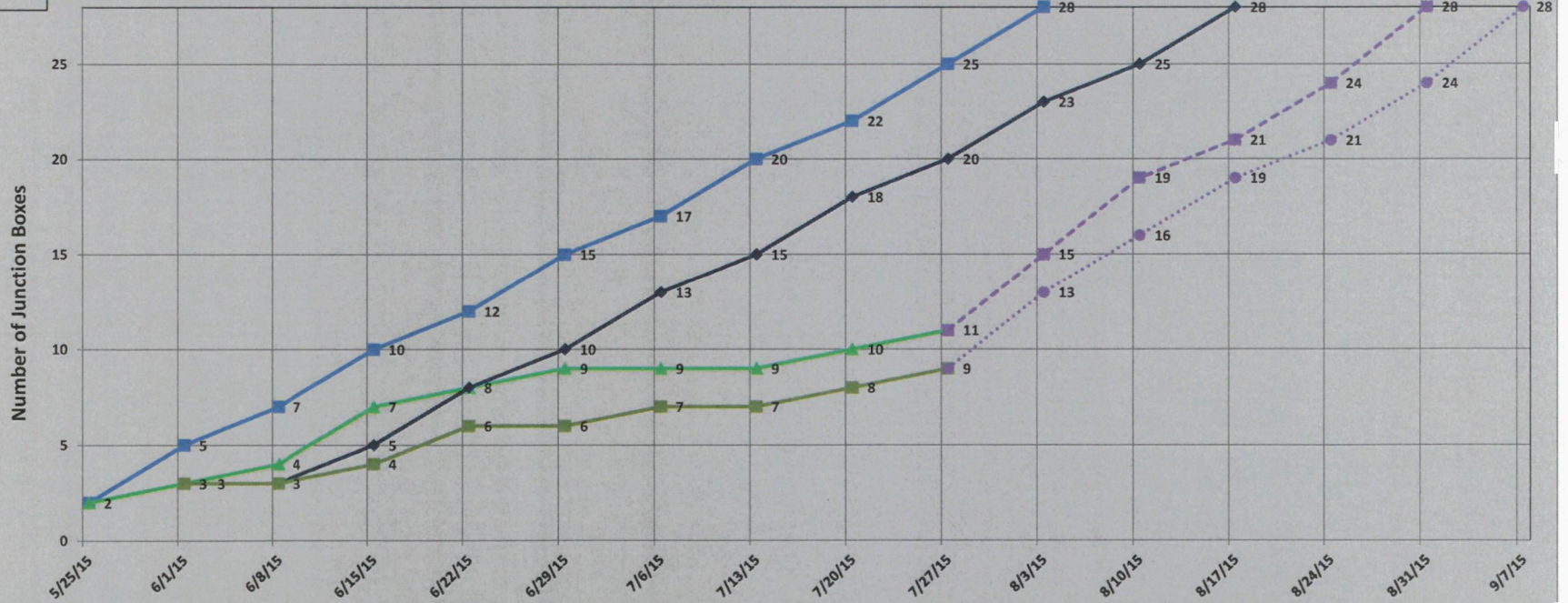
Border Winds - Cable Installation Progress Chart



	3/30/15	4/6/15	4/13/15	4/20/15	4/27/15	5/4/15	5/11/15	5/18/15	5/25/15	6/1/15	6/8/15	6/15/15	6/22/15	6/29/15	7/6/15	7/13/15	7/20/15	7/27/15	8/3/15	8/10/15
Planned Cable Installation	60000	76000	92000	108000	124000	140000	156000	172000	188000	204000	220000	236000	252000	268000	284000	297945				
Actual Cable Installed	31052	31052	37940	55374	63116	71988	83440	94064	112240	122194	127990	152463	174343	198454	211397	230476	268251	278342		
Forecast																		278342	290342	297945

Last Updated: 7/27/2015

Border Winds - Junction Box Progress Chart



	5/25/15	6/1/15	6/8/15	6/15/15	6/22/15	6/29/15	7/6/15	7/13/15	7/20/15	7/27/15	8/3/15	8/10/15	8/17/15	8/24/15	8/31/15	9/7/15
Planned JB Setting	2	5	7	10	12	15	17	20	22	25	28					
Actual JB Setting	2	3	4	7	8	9	9	9	10	11						
Planned JB Terminations			3	5	8	10	13	15	18	20	23	25	28			
Actual JBs Terminated		3	3	4	6	6	7	7	8	9						
Forecast JB Setting										11	15	19	21	24	28	
Forecast JB Termed										9	13	16	19	21	24	28

Last Updated: 7/27/2015

Border Winds- WTG Switchgear Terminations Progress Chart

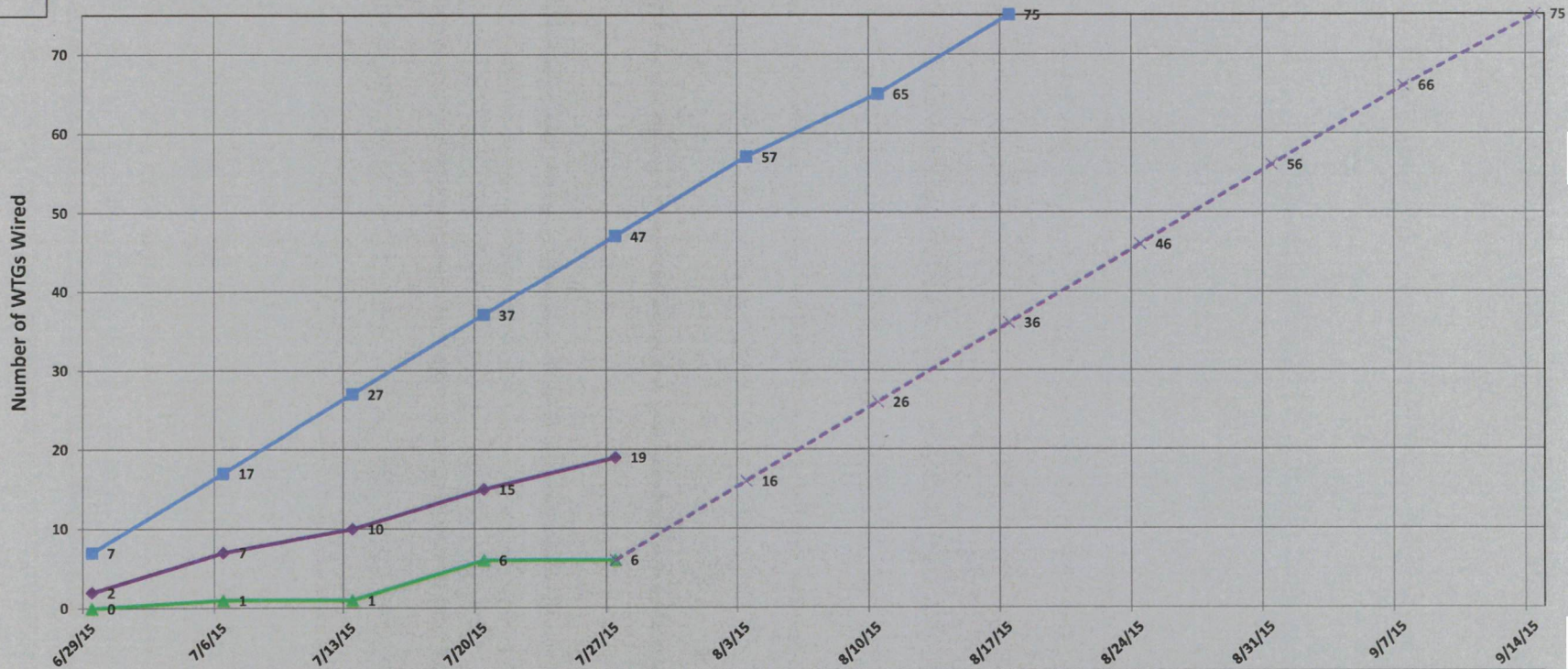
Number of WTG Switchgears Terminated



	6/29/15	7/6/15	7/13/15	7/20/15	7/27/15	8/3/15	8/10/15	8/17/15	8/24/15	8/31/15	9/7/15	9/14/15
Planned Switchgear Terminations	6	13	19	25	30	36	42	49	61	72	75	
Actual Switchgear Terminations	0	1	2	3	19							
Forecast					19	27	35	43	51	59	67	75

Last Updated: 7/27/2015

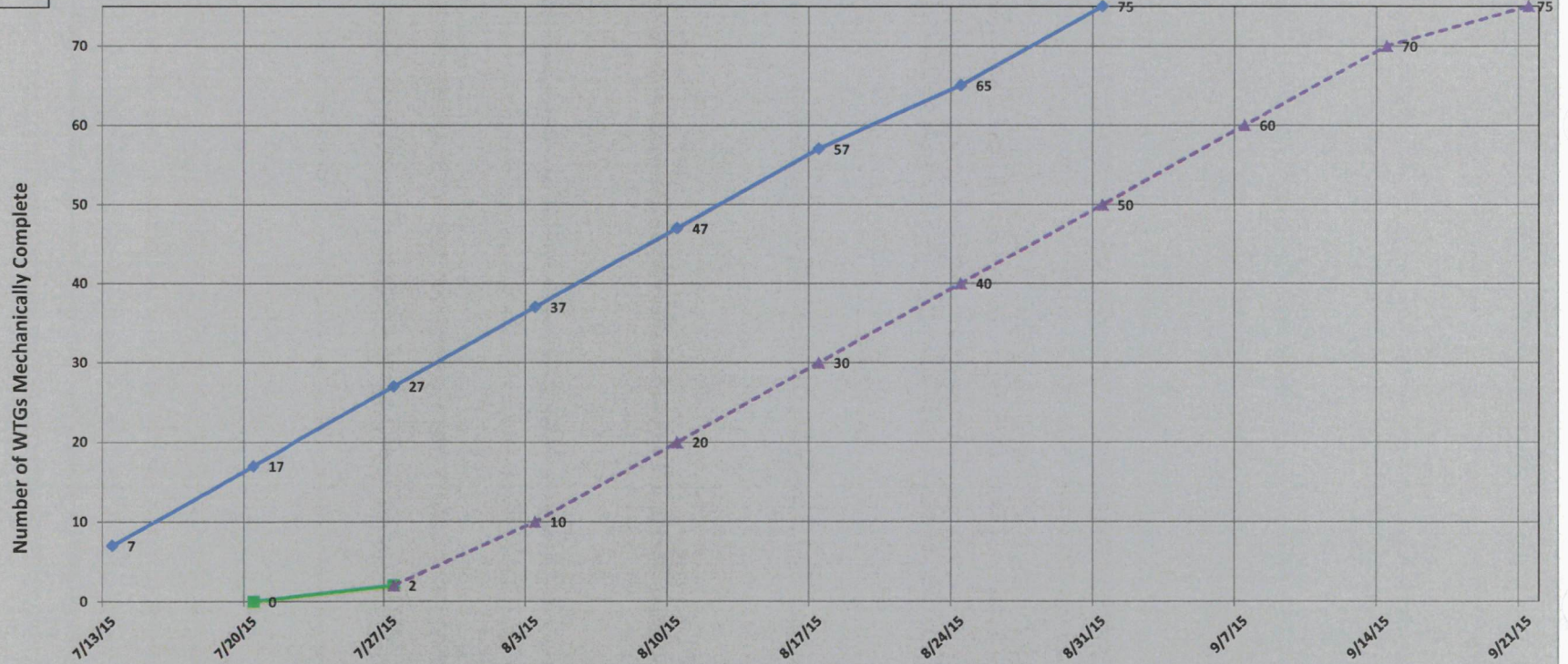
Border Winds - WTG Wiring Progress Chart



	6/29/15	7/6/15	7/13/15	7/20/15	7/27/15	8/3/15	8/10/15	8/17/15	8/24/15	8/31/15	9/7/15	9/14/15
WTGs Ready to Wire	2	7	10	15	19							
Planned WTG Wiring Completion	7	17	27	37	47	57	65	75				
Actual WTG Wiring Completed	0	1	1	6	6							
Forecast					6	16	26	36	46	56	66	75

Last Updated: 7/27/2015

Border Winds - WTG Mechanical Completion Progress Chart

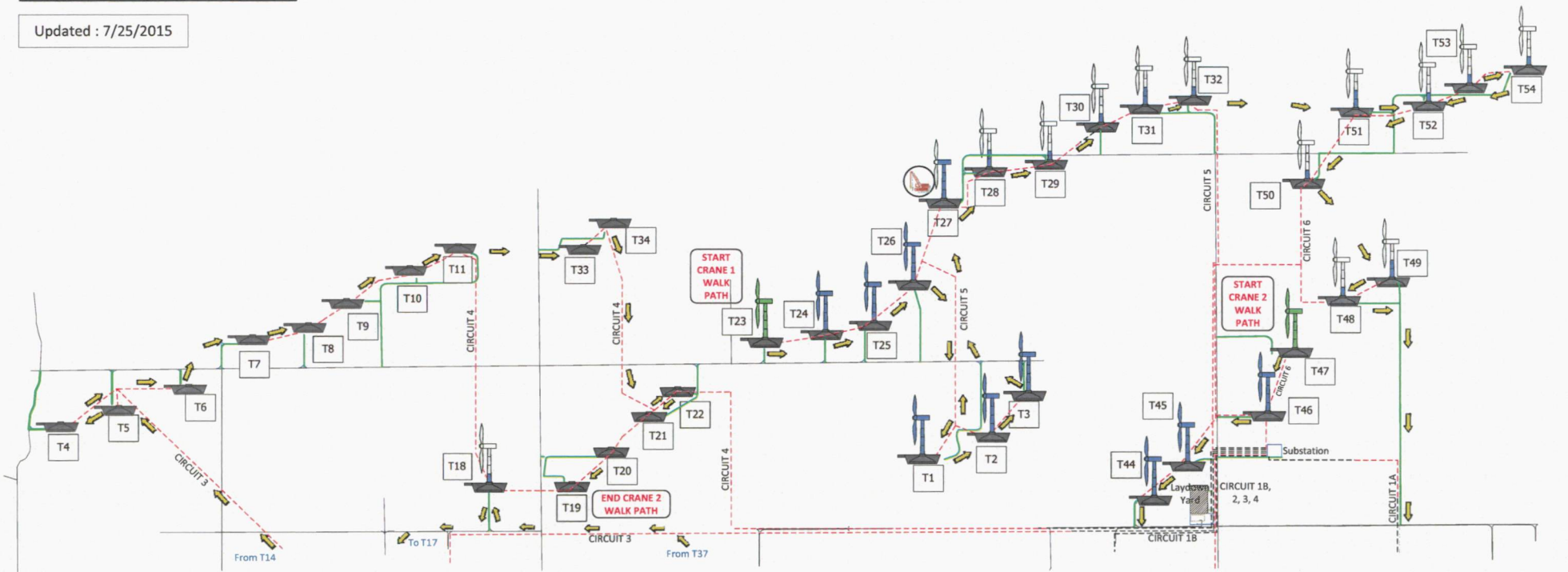


	7/13/15	7/20/15	7/27/15	8/3/15	8/10/15	8/17/15	8/24/15	8/31/15	9/7/15	9/14/15	9/21/15
Planned WTGs Mechanically Complete	7	17	27	37	47	57	65	75			
Actual WTGs Mechanically Complete		0	2								
Forecast			2	10	20	30	40	50	60	70	75



Updated : 7/25/2015

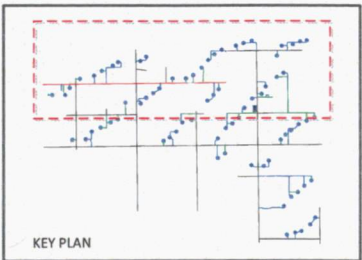
Border Winds – North Construction Progress Status Map



- road design
- road base installed
- - - - 34.5kV underground- design
- - - - 34.5kV underground- installed

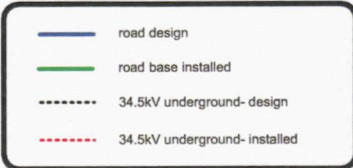
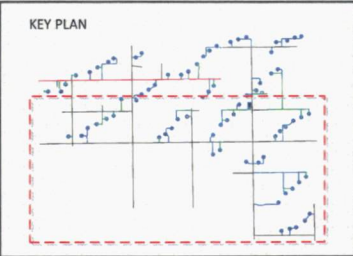
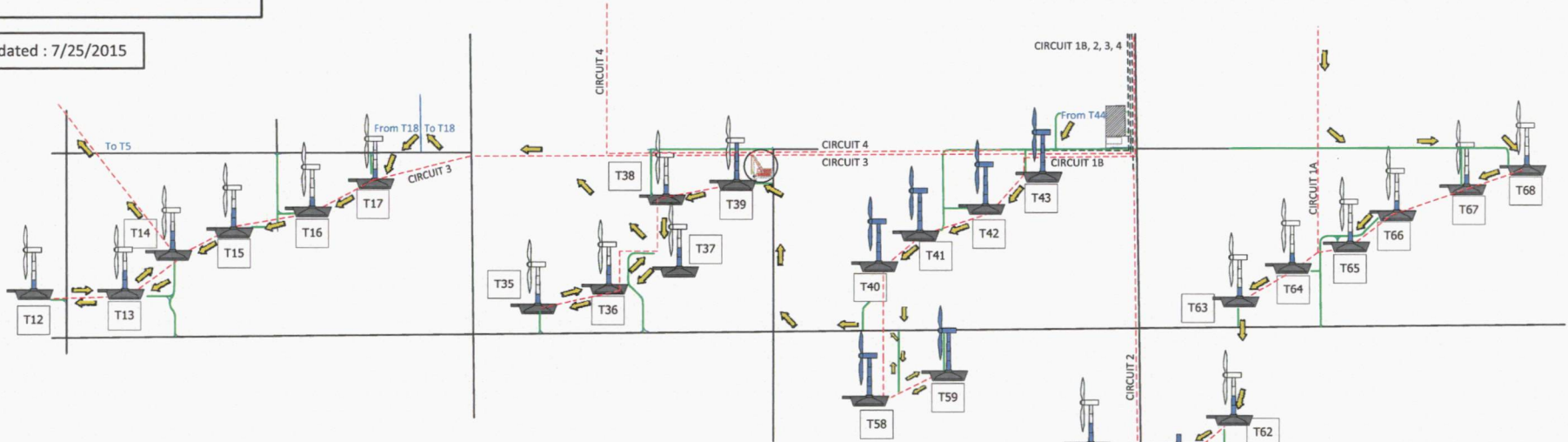
foundation status		erection status	
	excavated		pedestal
	mud mat		backfilled
	base		crane pad subgrade complete
			crane pad complete

erection status	
	rotor
	nacelle
	top
	upper mid
	lower mid
	base
	delivered
	installed
	mechanically complete
	Crane path



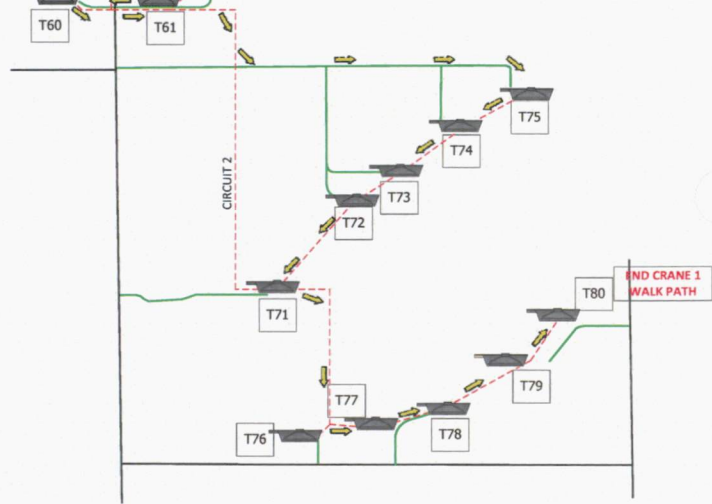
Border Winds – South Construction Progress Status Map

Updated : 7/25/2015



foundation status		erection status	
	excavated		pedestal
	mud mat		backfilled
	base		crane pad subgrade complete
			crane pad complete

erection status	
	delivered
	installed
	mechanically complete
	Crane path



NO CRANE 1 WALK PATH