



Lake Region State College Wind Turbine Project



Lake Region State College - Wind Turbine Project

Bi-Weekly Executive Summary # 4 - October 26, 2012

#	Major Activities Performed this Bi-Week:	Responsibility	% Complete	Comments
1	Title Policy Issued	LRSC	100%	
2	All Easements Complete and Recorded	ESG	100%	
3	Road Construction	ESG	100%	
4	Excavation, Concrete Foundation, Pier Construction, and Backfilling Complete	DES	100%	
5	Otter Tail - Coordination of Switchgear and Metering Requirements	ESG/EAPC/Otter Tail	75%	
6	Electrical Cable and Fiber - Collector	ESG	33%	
7	Tower, Rotor, Blades, and Nacelle - Arriving beginning Nov. 2	EAPC/ESG	0%	
8	Turbine Erection begins Nov 2	EAPC/ESG	0%	
9				
#	Major Activities To Be Performed for the Upcoming Bi-Week:	Responsibility	% Complete	Comments
1	Completion of Electrical Collection System	DES		Interconnect to Follow
2	Completion of Turbine Installation - Tower, Blades, & Nacelle	DES		Mechanical Completion to Follow
3	Mechanical - Work Ongoing - Boiler #1 & #2 to be Commissioned 10-31	ESG / Wrigley		
4				
5				
6				
7				
#	Critical Issues: (Refer to Issues Log for detailed status)	Responsibility	Risks and/or Impact / Comments	
1				
2				
#	Upcoming Major Milestones, Meetings, and Deliverables:	Date/Deadline	Status	Comments
1	Turbine - Mechanical Completion Certificate	11/19/2012		
2	Last Electrical Transformers / Switchgear to Arrive	12/24/2012		

Total Percent Complete 40%

ID	Task Name	Duration	Start	Finish	Mar '12	Apr '12	May '12	Jun '12	Jul '12	Aug '12	Sep '12	Oct '12	Nov '12	Dec '12	Jan '13	Feb '13	Mar '13	Apr '13
1	Lake Region State College - Wind Turbine Project	233 days	Fri 3/16/12	Tue 2/5/13	[Gantt Chart]													
2	✓ Otter Tail Power - Audit Due	0 days	Wed 4/4/12	Wed 4/4/12	[Gantt Chart]													
3	✓ FAA Re-Submittal	0 days	Fri 3/16/12	Fri 3/16/12	[Gantt Chart]													
4	✓ FAA Approval - Earliest Possible	0 days	Tue 4/17/12	Tue 4/17/12	[Gantt Chart]													
5	✓ FAA Approval	0 days	Fri 4/27/12	Fri 4/27/12	[Gantt Chart]													
6	✓ Geotechnical - On Site Drilling	0 days	Thu 5/10/12	Thu 5/10/12	[Gantt Chart]													
7	✓ Geotechnical Evaluation	10 days	Thu 5/10/12	Wed 5/23/12	[Gantt Chart]													
8	✓ Turbine Order	0 days	Fri 4/27/12	Fri 4/27/12	[Gantt Chart]													
9	✓ Shop Drawing Receipt	15 days	Fri 4/27/12	Thu 5/17/12	[Gantt Chart]													
10	✓ Structural Engineering	10 days	Thu 5/24/12	Wed 6/6/12	[Gantt Chart]													
11	✓ Mechanical Engineering	30 days	Thu 6/7/12	Wed 7/18/12	[Gantt Chart]													
12	✓ Bidding - Mechanical, Balance of Plant, Collection System	20 days	Thu 7/19/12	Wed 8/15/12	[Gantt Chart]													
13	✓ Mobilization - Turbine	0 days	Fri 10/5/12	Fri 10/5/12	[Gantt Chart]													
14	✓ Mobilization - Mechanical	10 days	Thu 8/16/12	Wed 8/29/12	[Gantt Chart]													
15	Boiler, Pumping Station, Piping	40 days	Thu 8/30/12	Wed 10/24/12	[Gantt Chart]													
16	⚠ Road Construction	11 days	Fri 10/5/12	Fri 10/19/12	[Gantt Chart]													
17	Ground Breaking Ceremony	0 days	Mon 10/8/12	Mon 10/8/12	[Gantt Chart]													
18	⚠ Foundation Excavation	1 day	Tue 10/16/12	Tue 10/16/12	[Gantt Chart]													
19	⚠ Foundation Complete	13 days	Wed 10/17/12	Fri 11/2/12	[Gantt Chart]													
20	⚠ Electrical Collection System - LV and Fiber Optics for MCC Termination	23 days	Wed 10/17/12	Fri 11/16/12	[Gantt Chart]													
21	Plant Visit - Pensacola	0 days	Tue 10/23/12	Tue 10/23/12	[Gantt Chart]													
22	⚠ Turbine Foundation - Strip Forms	3 days	Wed 10/24/12	Fri 10/26/12	[Gantt Chart]													
23	GE Rep - OnSite	0 days	Tue 10/30/12	Tue 10/30/12	[Gantt Chart]													
24	⚠ Tower, Blade, Rotor, and Nacelle Delivery	5 days	Mon 11/5/12	Fri 11/9/12	[Gantt Chart]													
25	⚠ Turbine Erection	5 days	Mon 11/5/12	Fri 11/9/12	[Gantt Chart]													
26	⚠ Post Tensioning - Anchor Bolts	1 day	Mon 11/12/12	Mon 11/12/12	[Gantt Chart]													
27	MCC Complete - Turbine	0 days	Mon 11/19/12	Mon 11/19/12	[Gantt Chart]													
28	Mechanical Completion Certificate	0 days	Mon 11/19/12	Mon 11/19/12	[Gantt Chart]													
29	Electrical Transformers	0 days	Fri 12/7/12	Fri 12/7/12	[Gantt Chart]													
30	Electrical Switchgear	0 days	Mon 12/24/12	Mon 12/24/12	[Gantt Chart]													
31	Interconnection	17 days	Mon 12/24/12	Tue 1/15/13	[Gantt Chart]													
32	LRSC Classes Begin	0 days	Mon 1/7/13	Mon 1/7/13	[Gantt Chart]													
33	Commissioning	15 days	Wed 1/16/13	Tue 2/5/13	[Gantt Chart]													

Project: NDSU ES Project Date: Fri 10/12/12	Task	Project Summary	Inactive Milestone	Manual Summary Rollup	Deadline	↓
	Split	External Tasks	Inactive Summary	Manual Summary	Progress	-----
	Milestone	External Milestone	Manual Task	Start-only	Progress	-----
Summary	Inactive Task	Duration-only	Finish-only	Progress	-----	



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Primary Conductors and Conduit for Fiber Optics



Electrical Collector 17,300 Linear Feet from Campus to Turbine Site



Electrical Interconnection Location - Step Up Transformer, Grounding Transformer, Switchgear and Hut



Access Road Viewed from Turbine Site 5900 Linear Feet of Roadway



Access at ND 20 and 52nd Increased Radius for Transport Delivery of Tower, Blades, and Nacelle



Mud Slab and Turbine Foundation 300 Cubic Yards of Concrete for the Slab, Foundation, and Pier



Pier Formwork and Tower Base Ring 14' Diameter



Pier Reinforcing and Tower Anchor Assembly 140 Anchor Bolts in PVC Sleeves from Embedment Plate



Forming the Turbine Pier Assembly on the Concrete Foundation 48' in Width

Week Ending 10-26-2012