

Hamre, John G.

From: Dennis Kuhns [dekuhns@hotmail.com]
Sent: Saturday, December 06, 2008 11:51 AM
To: -Info-Public Service Commission; Hamre, John G.
Subject: Rugby Wind LLC Weekly Report
Attachments: Rugby Report Weekly Report 12-06-08PDF.pdf

Good Day Gentlemen: Attached is the Rugby Wind LLC Weekly Report for the period ending 12-06-08. This will be the Final Report for this year as our General Contractor for Rugby Wind LLC (Wanzek), has decided to shut down for the winter effective this coming week. Mr. R. Fletcher will assume the Iberdrola Site Manager responsibilities in the spring when the project resumes. Thank-you, Dennis

Dennis E. Kuhns
Iberdrola Renewables
Acting Site Manager
Wind Engineering and Construction
Rugby Wind Project LLC
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Rugby Wind LLC Weekly Project Information, Week
Ending Dec. 6, 2008



Rugby Wind LLC
Project Information
Week Ending
Saturday, December 06, 2008

PROJECT LOCATION

<u>NAME</u>	<u>ADDRESS</u>	<u>CITY</u>	<u>STATE</u>	<u>ZIP CODE</u>
Rugby Wind LLC	3212 74th Street NE	Barton	North Dakota	58384

PROJECT DESCRIPTION

The Rugby Wind Project will be located in Pierce County, North Dakota. The 149.1 MW wind farm includes 71 Suzlon S88 wind turbines, a 34.5kV collector system, project substation, and 9.5 mile 230 kV transmission line interconnecting to the Rugby Substation. Associated facilities include an Operations and Maintenance building, permanent meteorological tower, and SODAR.

TURBINE INFORMATION

<u>MANUFACTURER</u>	<u>NUMBER of UNITS</u>	<u>RATED OUTPUT - MW</u>	<u>PROJECT - MW</u>
Suzlon	71	2.1	149.1
<u>TYPE</u>	<u>HUB HEIGHT</u>	<u>TOWER</u>	<u>ROTOR DIA.</u>
S88	79m	4 Section	88m

PROJECT TEAM

<u>DISCIPLINE</u>	<u>NAME</u>	<u>PHONE</u>	<u>CELL</u>	<u>EMAIL</u>
Developer	Tim Seck	(651) 917-9285	(612) 214-0358	timothy.seck@ppmenergy.com
Originator	Kevin Helmich	(503) 418-2852	(503) 467-6305	kevin.helmich@ppmenergy.com
Project Engineer	Don Hammond	(503) 478-6309		don.hammond@ppmenergy.com
Wind Analyst	Tim Hughes	(503) 796-7056	(971) 219-2063	timothy.hughes@ppmenergy.com
Project Manager	Joe Melsha	(503) 241-3252	(503) 701-1239	joe.melsha@ppmenergy.com
Site Manager	Dennis Kuhns	(701) 776-2706	(509)-366-4260	dckuhns@hotmail.com
Project Controls	Ryan Sherlock	(503) 478-6300		ryan.sherlock@ppmenergy.com
Asset Manager				
IT Support	Majed Khalifa			majed.khalifa@iberdrolausa.com
Permitting	Sarah Emery	(612) 309-2713	(612) 309-2713	sarah.emery@iberdrolausa.com
GIS Mapping	Tyler Hoffbuhr	(503) 956-0315		tyler.hoffbuhr@ppmenergy.com
Land Acquisition	Brian Walsh	(503) 796-6928	(503) 789-0846	brian.walsh@ppmenergy.com
O&M Plant Manager				
Director - O&M	Mark Perryman	(605) 692-0863	(605) 651-3553	mark.perryman@ppmenergy.com

PROJECT SUPPORT

<u>DISCIPLINE</u>	<u>COMPANY</u>	<u>NAME</u>	<u>PHONE</u>	<u>EMAIL</u>
Civil Engineering - Roads	Westwood Professional Services	Dan Beckmann	(612) 490-6257	dan.beckmann@westwoodps.com
Civil Engineering - FND	Barr Engineering	Joel Bahma	(612) 360-4036	jbahma@barr.com
Electrical Engineering	Ulteig	Gary Zahalka	(701) 866-9254	gary.zahalka@ulteig.com
Building Permits	Wanzek	Rob Lee	(701) 866-6041	rlee@wanzek.com
Turbine Supply	Suzlon			

CONTRACTOR INFORMATION

<u>SCOPE</u>	<u>CONTRACTOR</u>	<u>UNITS</u>	<u>TYPE</u>	<u>MEASURE</u>
ROADS	Wanzek	90,000	16 FOOT GRAVEL	LINEAR FEET (LF)
FOUNDATIONS	Wanzek	71		EACH
U/G COLLECTION:		42,000	34.5 kV	CIRCUIT FEET
		5	JUNCTION BOXES	EACH
O/H COLLECTION:		39,600	34.5 kV	LINEAR FEET - (LF)
		140	POLES	EACH
O/H TRANSMISSION:		52,272	POLES	LINEAR FEET - (LF)
				EACH
SUBSTATION:		1	230 kV	EACH
SWITCHING STATION:				EACH
O&M BUILDING:	Wanzek	1	4800 sq ft	SQUARE FEET (SQ FT)
MET TOWER / SODAR		1	MET TOWER	EACH
		1	SODAR	EACH
WTG INSTALLATION		71	SUZLON	EACH



Rugby Wind LLC
Weekly Summary Report
Week Ending

Saturday, December 06, 2008

PROJECT MILESTONES

MILESTONE	START			FINISH		
	<i>Plan</i>	<i>Forecast</i>	<i>Actual</i>	<i>Plan</i>	<i>Forecast</i>	<i>Actual</i>
Site Mobilization / Demob.	10/25/08		9/29/08	9/29/08		9/29/08
Road Construction	10/6/08		10/6/08	6/16/09	6/16/09	
Turbine Foundations	11/1/08		10/15/08	6/15/09	6/15/09	
Collection System	5/15/09	5/15/09		9/1/09	9/1/09	
Substation / Switch Station	6/1/09	6/1/09		9/8/09	9/8/09	
Primary Transformer Delivered	7/31/09	7/31/09		7/31/09	7/31/09	
Primary Transformer Set / Dressed	8/1/09	8/1/09		8/15/09	8/15/09	
Turbine Deliveries	6/16/09	6/16/09		8/24/09	8/24/09	
Turbine Installation	6/22/09	6/22/09		11/6/09	11/6/09	
Turbine Mechanical Completion	7/15/09	7/15/09		11/23/09	11/23/09	
Energize Substation	9/24/09	9/24/09		9/24/09	9/24/09	
Turbine Commissioning / Testing	9/1/09	9/1/09		12/12/09	12/12/09	
Met Tower / Sodar	8/1/09	8/1/09		10/1/09	10/1/09	
O & M Building	6/15/09	6/15/09		9/15/09	9/15/09	
SCADA / Data Comm.	10/1/09	10/1/09		10/8/09	10/8/09	
Plant Reliability Testing	12/15/09	12/15/09		12/16/09	12/16/09	
Substantial Completion	12/16/09	12/16/09		12/16/09	12/16/09	

SAFETY EVENTS:

None. Remaining personnel on site are being reminded to stay hydrated and dress appropriately as the temperatures here have steadily declined.

ENVIRONMENTAL EVENTS:

None. The Project Craft(s) continue to respect the Environmental areas such as the Wetlands and have not encroached upon them. The Crafts and Sub Contractors are reminded of this Environmental constraint weekly. Additional areas have been staked by Westwood Surveyors.

PROJECT SUMMARY / ISSUES:

Our General Contractor here at Rugby Wind; Wanzek, decided that this project will shut down by the end of next week (12-12-08). We are not going to do any further Concrete Operations as the weather is certainly not conducive for placing concrete. The temperatures here have reached a point that I can no longer offer any viable or effective measures to protect the concrete and it is a safety consideration as well for the crafts who would be working. Wanzek's Civil Sub-Contractor for Roads (Gowan) has already shut down this week for the winter hiatus. The Sub-Contractor for Roads Material(s) and Quarry Operations is shutting down this weekend. The Sub-Contractor for Batch Plant Concrete (Strata) is shutting down now also. I have spoken with Wanzek's Sub-Contractor for Testing & Inspection (Team Services) and reached this conclusion: Team Services is to remove ALL Concrete Test Specimens in emersion bath(s) here on Site to their Testing facility in Sioux Falls, South Dakota for continuance of testing through the winter or until such time that the specimens are depleted. Wanzek has already laid-off their reinforcing steel/rebar crew and others.

The Quarry Pit has shut down for the winter and will return next spring to produce and stockpile Road Building Material. There is a sizable stockpile already accumulated which should be sufficient for the entire project needs.

Wanzek's Sub Contractor for Roads (Gowan) has completed the following work prior to their departure from site: Access Road Sub-grade complete on String Lines C, D, F, G, H, K-1, L, M, N, and Q. Access Road Sub-grade without Proof Rolling on String Lines A, B, E, J, and R. Gravel complete on String Lines C, D, F, G, H, K-1, L, M, N, and Q.

Wanzek will maintain a core group of personnel here that are concentrating on getting all open excavations blockaded and all Foundation Steel & Pedestals securely wrapped/covered for the winter before departing the project site.

This Week's Photos are some of the preparations being taken to secure the Foundations and Pedestals for the winter hiatus and also the Concrete Batch Plant continuing to build-up their material stockpiles.

WEATHER

LOST DAYS this WEEK

WIND
RAIN

LOST DAYS this PROJECT

WIND
RAIN



Rugby Wind LLC

Cumulative Statistics Report

Week Ending

Saturday, December 06, 2008

Work Completed to Date

Civil Work	Wanzek	Required	Complete	Percent	Required	Complete	Percent	Required	Complete	Percent		
Roads Cut In		90,000	44,633	50%	Bolt Cages Completed	71	36	51%	Foundations Backfilled	71	13	18%
Roads Base Rocked		90,000	44,633	50%	Foundations Poured	71	25	35%	Crane Pads Installed	71		
Foundations Excavated		71	36	51%	Pedestals Poured	71	19	27%	Crane Pads Removed	71		
Mud Mats Poured		71	36	51%	Foundation Grounding	71	13	18%				
Total Earned Value									29.2%			
Collection U/G	N/A	Required	Complete	Percent	Required	Complete	Percent	Required	Complete	Percent		
Cable Deliveries		100			LV Cable Installation	71			Transformer Testing	71		
Switchgear Deliveries		N/A			Junction Box Installation	5			Cable Testing	71		
URD & Fiber Installation		42,000			Medium Voltage Termination	71			Fiber Optic Testing	71		
Switchgear Installation		N/A							Total Earned Value			
Collection O/H									N/A			
Hardware Deliveries		100			Poles Dressed	140			OPGW Installation	39,600		
Conductor Deliveries		100			Poles Set	140			Conductor Installation	39,600		
Pole Deliveries		140							Total Earned Value			
Transmission O/H									N/A			
Hardware Deliveries		100			Poles Dressed				OPGW Installation	52,272		
Conductor Deliveries		100			Poles Set				Conductor Installation	52,272		
Pole Deliveries									Total Earned Value			
Substation									N/A			
Equipment Deliveries		100			U/G Conduit Installation	100			Major Equipment Installed	100		
Clearing & Grading		100			Fencing & Gates	100			Control Wiring	100		
Foundations		100			Steel Erection	100			Testing & Commissioning	100		
Grounding		100			Bus Installation	100			Oil Containment	100		
Switching Station									N/A			
Equipment Deliveries					U/G Conduit Installation				Major Equipment Installed			
Clearing & Grading					Fencing & Gates				Control Wiring			
Foundations					Steel Erection				Testing & Commissioning			
Grounding					Bus Installation				Total Earned Value			
O&M Building									Wanzek			
Clearing & Grading		100			Well (complete system)	100			Electrical	100		
Surface Rock		100			Plumbing / Septic System	100			Interior Finishing	100		
Foundation		100			Fire Alarm System	100			Fencing	100		
					Building Erection / Exterior	100			Total Earned Value			
Met Tower / Sodar									N/A			
Met Tower Materials Received		100			Met Tower Commissioned	100			Sodar Commissioned	100		
Met Tower Foundations Poured		100			Sodar Foundation Poured	100			Total Earned Value			
Met Tower Installed		100			Sodar Received / Installed	100			0.0%			
Turbine Deliveries									Suzlon			
Controllers		71			Controllers	71			Turbines Pre-Commissioned	71		
Tower Base		71			Tower Base	71			Turbines FCAT	71		
Lower Mid		71			Lower Mid	71			Turbines Commissioned (CCT)	71		
Upper Mid		71			Upper Mid	71			Turbine Reliability Test (TRT)	71		
Tower Top		71			Tower Top	71			Post Comm. Inspections	71		
Nacelle		71			Nacelle	71			SCADA Testing (WTG)	71		
Blade Sets		71			Rotors Assembled	71			SCADA Testing (plant)	1		
Hubs		71			Install Rotor Assembly	71			Wind Farm Mgmt System	1		
					Mechanical Completions	71			Plant Reliability Test (PRT)	1		
Total Earned Value									0.0%			
Total Earned Value									0.0%			
Total Earned Value									0.0%			



**IBERDROLA
RENEWABLES**

**Rugby Wind LLC
Weekly Report
Week Ending
Saturday, December 06, 2008**

SITE PICTURES

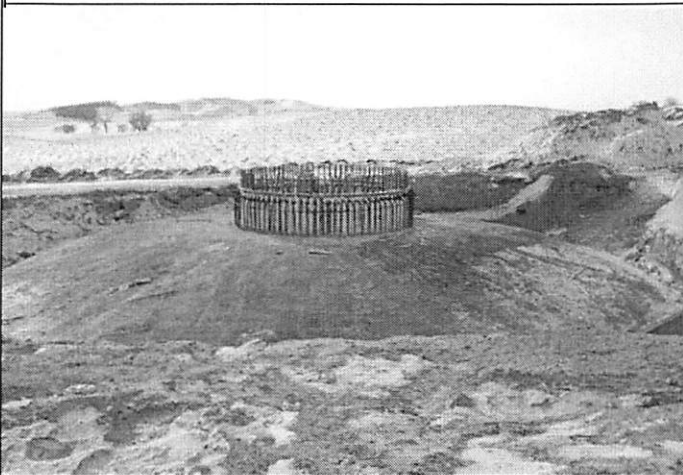
Batch Plant supplementing their Sand Stockpile



Batch Plant dressing Sand Stockpile



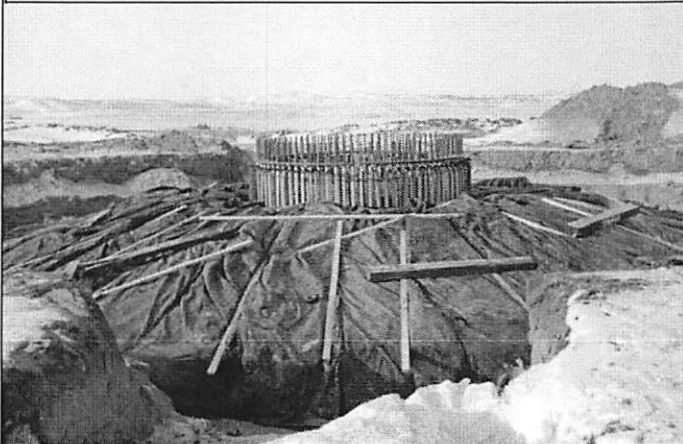
Exposed Foundation prior to receiving cover for winter



Foundation starting to receive cover for winter



Foundation covered, Pedestal awaiting winter cover



Foundation completely secured for winter

