



**Luverne Wind Farm
Substation Construction
Plan of the Week (POW)**

Week of June 22nd-26th, 2009

Otter Tail Power Company

- Activities:**
- **Activities this week:** Final Grading was completed on the North end of the substation yard. Crews installed all of the drilled piers and all of the breaker pads except three. Final class V was installed on the substation yard and entrance road. Respreading of the topsoil was started on Friday.
 - **Activities next week:** Complete the breaker pads and install below grade conduits for the control house. Frame and pour the control house slab and install floor heating pads. Nodak Electric is planning to install the station service cable and transformer on Wednesday/Thursday.
 - **Safety/Environmental:**
None.
 - **Lay down Yard:**
None.
 - **Electrical/Construction:**
None.
 - **Potential Schedule Delays:**
None.

General Information and Announcements

Construction	% Complete
Luverne Substation	
Sub Grade Yard and Road	100%
Final Grading Yard and Road-Class V	90%
Concrete Foundations	70%
Install Ground Grid	0%
Install Steel	0%
230 & 35kV bus / Outdoor Welding Conduit	0%
Complete Outdoor Equipment Installation, etc.	0%
Install Fence	0%
Construct Control House	0%
Install Control House Equipment & Wiring	0%
Install Control House Relay Panels and Wiring	0%
Install Yard Rock	0%
Testing & Commissioning	0%

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Weekly Construction Activities Report for June 22 - 26, 2009

Otter Tail Corporation
Kathryn Burgau

Material Delivery	Required	Rec'd
Luverne Substation		
High Voltage 230kV Circuit Breaker at Barnes Substation	1	
High Voltage 230/34.5kV Transformer-HiCO	1	
Metering CT/PT Combo, 230kV	3	
Three phase 35kV group-operated Switch, 4000 amp	1	
SF6 Circuit Breaker, 69kV	8	
Three phase 230kV group-operated Switch, 2000 amp	1	
Single Phase hookstick Disconnect Switch, 35kV, 1200 amps	48	
Reactor, Neutral Grounding, 34.5kV	1	
Potential Transformer, 35kV, Single Bushing	11	
Station Class Surge Arrester Polymer Type 152 MCOV	3	
230kV Station Post Insulator	3	
35kV Station Post Insulator, TR-231	18	
35kV Station Post Insulator, TR-210	60	
Outdoor Control Cable (4 & 12 Conductor #10)	Lot	
Aluminum Bus Tubing and Welded Connectors	Lot	
Steel Structures (230 & 35kv Bays)	Lot	