



# Oak Creek Expansion

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Network Customer Meeting  
August 24, 2006

# SCOPE

- Substations
- Transmission Lines

# SCOPE - Substations

- Construct a new five bay, 10 position, breaker-and-a-half 345 kV Switchyard rated 63 kA
- Relocate 345/230 kV transformers
- Construct new 138 kV bay position for new 345/138 kV transformer
- Replace breakers at Pleasant Prairie Substation

# SCOPE – Transmission Lines

- Relocate and/or raise 11 transmission lines at Oak Creek Power Plant to accommodate a free and clear construction zone for We Power's Elm Road Generating Station's coal handling facilities and ATC's new 345 kV Switchyard
- Reconductor three lines
  - Oak Creek – Ramsey6
  - Oak Creek – Allerton
  - Oak Creek – Root River
- Terminate Ramsey5 – Harbor into Norwich and Kansas Substations.
- Increase line rating on two lines
  - Kansas – Ramsey6
  - Oak Creek - Nicholson



# STATUS

The first unit's interconnection construction activities:

- Phase 1A – Line relocations to provide We Energies a free and clear work zone
  - Completed February 18, 2005 & accepted by We Energies on February 23, 2005, ahead of the milestone completion date of March 1, 2005
- Phase 1B – Line relocations to provide ATC space to construct the new 345 kV Switchyard
  - Completed May 17, 2005



# STATUS

- Phase 1C – Construct new 345 kV Switchyard and terminate lines
  - More than 90% complete
  - BVCI / MJ Electric demobilized from the job site in August, 2006
  - BVCI / MJ Electric will remobilize in September 2006 to finish out the construction scope of work for Phase 1

# PROJECT MILESTONES

- June 2, 2006: the 345kV backfeed of Bechtel's S1 transformer
  - The Elm Road Substation was available to support the S1 transformer backfeed by March 6, 2006
  - This was the most important milestone of the project and ensured that power was available to the power plant in time to support Bechtel's intake tunnel construction.
- April 27, 2006: the temporary interconnection of the new and existing 345kV substations
- May 13, 2006: the relocation of the four (4) 230:345kV T895 transformers

# SCHEDULED ACTIVITIES

- September 2006
  - erect structures and install wire to relocate the 345kV line to Racine Substation from its temporary location to its permanent location in the new 345kV substation
- October 2006
  - erect structures and install wire to relocate the 345kV line to Arcadian Substation from its current location in the existing 345kV substation to its permanent location in the new 345kV substation
- December 2006
  - cutover of 138:345kV transformer T88 into the new 345kV substation



# SCHEDULED ACTIVITIES

- December 12, 2006
  - BVCI plans to complete the final construction activities
  - Final construction activity will be followed by project clean up, punch list items, as-built drawings and closeout.
- February 2007
  - Project Closeout