



## Connections update issue

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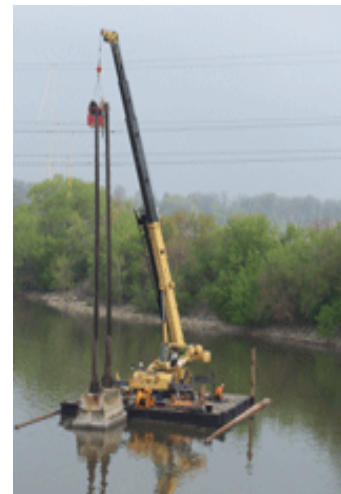
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#### Ideas Wanted!

We are eager to hear your ideas, feedback, and suggestions for Connections. Submit articles or ideas you would like to see in an upcoming issue.

**Connections** is an electronic newsletter created to keep you, our customer, up to date on key projects and issues.

In this issue, find out about the Cranberry-Conover-Plains Project. This project addresses overloads, low voltages, and potential for voltage collapse for the western part of Michigan's Upper Peninsula and Wisconsin's Rhinelander Loop.



(Photos left to right: Fox River Pole Replacement - original structure, construction)

Also highlighted is a pole replacement near De Pere, Wisconsin. The work would seem routine, but not when the pole is located in the Fox River. (See photos above.)

You will find information about the Gardner Park-Central Wisconsin and Morgan-Werner West Projects, as well as a construction update on the Arrowhead-Weston Project.

Be sure to check out the Upcoming Events page for the dates of 2007 Network Customer Meetings.

We welcome your ideas, feedback and suggestions for **Connections**. Send us a note or complete the [feedback form](#) at left with ideas for articles you would like to

see in upcoming issues.

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# Cranberry-Conover-Plains Project

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## PSCW Approves Cranberry - Conover - Plains Transmission Project

The Public Service Commission of Wisconsin in November 2006 approved the Cranberry-Conover-Plains Project in Vilas, Forest and Florence counties. The project includes a new 138 kV, 16-mile line between the Cranberry Substation south of Eagle River and the Conover Substation east of Conover. It also involves the conversion of about 73 miles of existing lines from 69kV to 138 kV from Conover through Iron River to the Plains Substation in Quinnesec, Michigan, and the construction of new substations at Conover and Iron River. The Cranberry, Aspen and Plains substations will be expanded. Construction will begin on the Cranberry-Conover segment in Spring 2007. The work is expected to be completed by late 2009.

The benefits of the project are multi-faceted and expansive. The project addresses overloads, low voltages, and potential voltage collapse for the western part of Michigan's Upper Peninsula and Wisconsin's Rhinelander Loop. In addition to setting the stage to address future needs in the region, it will substationally improve transfer capability between the U.P. and Wisconsin. The Project also includes the replacement of aging 69kV facilities between the Plains and Conover substations.

For additional information on the project, click on [http://www.atcllc.com/TP\\_ccp\\_project.shtml](http://www.atcllc.com/TP_ccp_project.shtml)

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## Fox River Pole Replacement

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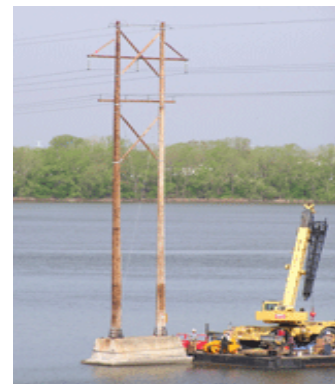
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### Pole Replacement in Fox River Presents Challenges

Pole replacements are generally routine, but a recent project near DePere presented a unique challenge because the pole was located in the Fox River and had distribution underbuild.

A routine maintenance inspection revealed that the structure on a line between Highway V and Nicolet Substations had a rotten pole and cross-arm. The project involved replacing the H-frame structure in its entirety during a planning outage. In order to replace the pole, ATC arranged for a crane on a barge. However, the water level at that point in the river was only 18" deep at low tide, so careful planning was needed to transport the crane and materials at the appropriate times of the day when the water was at its highest level. Crews shuttled to the barge in power boats. The poles could not be transported on the barge due to their weight, and instead were floated in the river and towed to the work site.



In preparation for the work, ATC issued press releases to the local newspapers and a local fishing internet site. Notification signs were posted at three boat launches in the vicinity of the structure and ATC Environmental notified the applicable permitting agencies of the work, even though no permits were required.

ATC collaborated with WPS to obtain an outage on the distribution underbuild line and to coordinate parts procurement and construction crews to replace old insulators on the distribution line.

The project was completed in two days. ATC Project Manager Jon Thoresen commented, "The project presented several unique challenges. In addition to the pole being in the middle of the Fox River, the shallow water and barge displacement dictated construction to start early in the year during the high-water season. To accommodate the local fisherman, ATC waited until after the spring walleye spawning run to begin construction."

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## Gardner Park-Central Wisconsin Morgan-Werner West Projects

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### PSCW Approves Two, 50-Mile Transmission Lines In Northern Wisconsin

After more than two years of public input and regulatory review, the Public Service Commission of Wisconsin gave its approval to two power line projects in June 2006.

The combined transmission projects of Gardner Park-Central Wisconsin and Morgan - Werner West will significantly improve electric reliability not only in central Wisconsin, but throughout the state and the upper midwest. The projects will strengthen the power grid and help reduce the electric system's vulnerability to disturbances.

Gardner Park-Central Wisconsin is essential because the existing transmission system is inadequate to deliver the additional energy from the 500 MW generator at the Weston Power Plant near Wausau, Wisconsin. The Morgan-Werner West line is needed to alleviate overloaded facilities in the Green Bay and Fox Valley areas. The lines will be constructed primarily along existing railroad, gas pipeline, highway and transmission rights-of-way.

"There is an overwhelming need for additional transmission infrastructure in Wisconsin, and in particular, this region of the state," offered Allen Stamp, general manager of construction for ATC's central portfolio. "Approval of these two projects is good news for homeowners, businesses and industries that enjoy all the benefits of a reliable electric system."

ATC first introduced the projects to area residents in January 2004 and submitted its regulatory application in spring 2005. Cost estimates for the projects are \$125 million for Gardner Park-Central Wisconsin and \$132 million for Morgan-Werner West.

For additional information, click on [www.atc-gcmw.com](http://www.atc-gcmw.com)

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## Arrowhead-Weston Project

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### Arrowhead - Weston Project Achieves Major Milestone

The Arrowhead - Weston Project from Duluth, Minnesota achieved a major milestone in mid-November with the energizing of 143 miles of the 345 kV line and the Gardner Park and Stone Lake Substations. This goal was met nearly six weeks ahead of schedule.

The remaining 66 miles of the project are divided into four construction segments. Work is proceeding on two segments: the northernmost segment and the segment north of Stone Lake. The A-W Project remains on budget and on schedule with targeted completion before June 2008.

Other highlights include:

- 75% of the foundations have been poured
- 75% of the poles have been set
- 71% of the structures have been strung
- 36% of the sites have been restored
- 5 construction segments are complete
- 87% of the required miles of right-of-way have been obtained

For additional information and updates, click on [www.arrowhead-weston.com](http://www.arrowhead-weston.com)

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## Department News

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Here's an update on what's going on at ATC.

#### **New Web site created for Central Wisconsin project**

A new Web site dedicated to the Gardner Park -- Central Wisconsin and Morgan-Werner West Transmission Projects has been created. The site, [www.atc-gcmw.com](http://www.atc-gcmw.com), includes an interactive map that highlights the construction segments, facts about the project, and an updated photo library.

#### **ATC Releases 2006 10-Year Transmission System Assessment**

ATC released its 2006 10-Year Transmission System Assessment in Fall. Both the full and summary reports are available online at [www.atc10yearplan.com](http://www.atc10yearplan.com).

#### **State Regulatory updates status of projects for 2006**

ATC's State Regulatory department updated its project application and approval list for 2006. Applications were filed with the Public Service Commission of Wisconsin for the projects listed below.

#### *Pending at the Commission:*

Saukville - St. Lawrence  
 Crivitz - High Falls  
 North Madison - Huiskamp  
 Dodge County Reliability Project

#### *Approved:*

Gardner Park - Hilltop  
 Delavan - Darien Reliability Project, Phase 2  
 Venus - Metonga  
 Aspen Substation  
 Morgan - Werner West  
 Gardner Park - Central Wisconsin  
 Cranberry - Conover - Plains  
 Jefferson County Reliability Project  
 Weston - Rocky Run (T20) Rebuild  
 Plymouth #4 Substation Interconnection

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## upcoming events

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### 2007 Network Customer Meetings *(Meetings are held in ATC's Pewaukee Office, 9:30am - 2pm, unless otherwise noted)*

Thursday, February 22

Thursday, May 17

Thursday, August 23

Thursday, November 15

### Midwest ISO Meetings

For a complete list of Midwest ISO meetings, click on the following link.

<http://www.midwestiso.org>

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