

ReACT™

Weston 3 Emission Control Project



Wisconsin Public Service (WPS) plans to upgrade the emission control system at its Weston Generating Station Unit 3 power plant using Regenerative Activated Coke Technology (ReACT™) to ensure its viability as an electric generator. On April 12, 2013, the application to install the new multi-pollutant control system was granted approval on a unanimous vote by the Public Service Commission of Wisconsin (PSCW).

| Timeline | Completion Date |
|-------------------------------------|-----------------|
| Regulatory and Permitting Approvals | 2nd Qtr 2013 |
| Initial Site Contracts Awarded | June 2013 |
| Construction | 2016 |
| Operational | Late 2016 |

Weston 3 Power Plant

- 321-megawatt power plant facility that began operating in 1981.
- Located 7 miles south of Wausau in the Village of Kronenwetter and Rothschild.
- In 2012, 9% of WPS customer energy needs came from Weston 3.

ReACT Technology

- Uses integrated emission control technology that removes sulfur dioxide (SO₂), nitrogen oxide (NO_x) and mercury from coal-fired plants.
- Uses adsorption with activated coke to attain emission levels found at the best controlled coal-fired plants.
- Will reduce SO₂ and mercury emissions by 90% or more each, and NO_x emissions by 20% or more at Weston 3.
- Will position Weston 3 to be in compliance with future Environmental Protection Agency regulations.
- Enables the production of safe, clean, reliable and economical electricity.

More Information

wisconsinpublicservice.com/environment/react.aspx



ReACT™

Weston 3 Emission Control Project Q&A



What is ReACT™ technology, and why is it needed at Weston 3?

ReACT is a emission control technology that removes SO₂, NO_x and mercury from coal-fired plants. The technology controls multiple pollutants using a fraction of the water that conventional wet scrubbers demand, while producing saleable sulfuric acid byproduct that is commonly used in fertilizer, papermaking and other industries.

Why doesn't WPS just build a new power plant?

WPS has a great history of maintaining its power plants and equipment, and making sure they are operating safely and efficiently. Weston 3 is now 31, Unit 1 is 58, and Unit 2 is 52 years old. All are still available to operate. Compliance with future environmental rules is a priority for WPS and ReACT at Weston 3 will ensure compliance.

What are anticipated emission reductions with ReACT?

WPS expects to reduce SO₂ and mercury emissions by 90% or more and NO_x emissions by 20% or more.

How much mercury will be collected, and where will it go?

About 150 pounds of mercury will be collected in the system annually. It will be captured by the activated coke filter and concentrated in a specific section of the system and removed during a regularly scheduled power plant outage. The contaminated material will be shipped offsite for disposal at an approved site.

How will project costs affect customers?

The cost for the environmental upgrades at Weston 3 will be recovered over 19 years, beginning in 2016. It will cost the average customer about \$3 per month.

When will construction begin and will it create new jobs?

Construction is expected to take 30-36 months, with site prep beginning in 2013 and major construction beginning in 2014. The project will bring in 120-150 new workers. During peak construction, we may employ up to 220 new workers. Craft workers will include ironworkers, boilermakers, electricians, pipefitters, masons, sheet metal workers, concrete labor, engineers, carpenters, roofers and others. WPS also anticipates needing additional full-time employees to maintain and operate the new system once completed.

Where can I find more information?

Please visit wisconsinpublicservice.com/environment/react.aspx.

