Exelon Nuclear

Limerick Generating Station

COMMUNITY update

News for Limerick Generating Station's Neighbors

Fall 2008

Limerick Generating Station's Water Diversion Project:

Helping to Improve the Schuylkill River

In 2003, Exelon Nuclear implemented a water supply demonstration project at Limerick Generating Station, in Montgomery County. The project demonstrated the benefits of lessening the withdrawal of water from the Delaware River and utilizing various other sources for the station's cooling water needs.

Craig Wyler, a Limerick engineer, spearheaded the water diversion project, and helped develop the Schuylkill River Restoration Fund.

The demonstration project has been going on for the past six years, and the project results show no areas of concern. Limerick has applied to the Delaware River Basin Commission (DRBC) to see if it can continue the project for the long-term. The DRBC is expected to make a decision in the next few months.

How Does It Work

Limerick is not unique among large power plants and uses a lot of water for cooling purposes. The station pumps more than 40 million gallons of water each day for normal plant operations Some of this water is returned back into the Schuylkill River, but on average 35 million gallons of water evaporates through the cooling towers daily. Water is available from either the Delaware River or the Schuylkill River. The Delaware River is more than 40 miles away and its use requires the station manage a complex series of pumps, reservoir, natural creek flows and underground

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Message from Limerick's Vice President Chris Mudrick

Dear Neighbors,

On behalf of the employees of Limerick Generating Station, I am pleased to provide this publication in an effort to make you aware of station activities of interest to our neighbors.

Our top priority is to operate safely 100 percent of the time. I am happy to report that the U.S. Nuclear Regulatory Commission reported in 2008 that Limerick does operate in a manner that protects the public health and safety.

Beyond safety, Limerick employees are proud of their commitment to the community. Employees and the station have donated more than $140,000 to the charitable organizations so far this year.

We appreciate your continued support.

Sincerely,
Chris Mudrick

Does Your Group Want To Learn More About Nuclear Energy? Contact Us!

Did you know that nuclear energy plants like Limerick do not emit greenhouse gases? Or that the power packed into one nuclear fuel pellet is roughly the size of the tip of your finger? Did you know that one fuel pellet is equivalent to three barrels or oil and one ton of coal?

These facts are just a few of the interesting pieces of information that you can learn from Limerick's Speaker's Bureau. Our Exelon Nuclear ambassadors can join your next meeting or function and describe the benefits of nuclear energy, plus give your members a peek inside the electricity generating station that powers approximately 2 million homes.

We're able to speak about safety, nuclear operations, environmental benefits and security as well as many more topics. Our ambassadors will tailor each presentation to your group's interests and generate discussion among your group.

If you're interested in setting up a presentation, please contact Limerick Communications at (610) 718-3025.

WHAT'S INSIDE

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Water Diversion Project

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piping to bring water from the Delaware River to the station.

For 15 years, the Limerick Station used the Delaware River during about 6 months a year for its operation because of a conservative environmental provision written in the 1970s projecting certain uses and conditions of the Schuylkill River than have not been borne out.

Working with Delaware River Basin Commission (DRBC), Limerick engineers and environmental experts spearheaded a comprehensive plan to demonstrate that modifying the temperature limit and augmenting the river flow during low river flow periods would not adversely affect the Schuylkill River watershed. The project proposed monitoring the environmental effects and is in its sixth year of an extensive monitoring program. The results have been very favorable as expected and will be used by the DRBC in coming to a long-term decision on project continuation.

The demonstration project allowed Limerick to pump water from the Wadesville Mine and Still Creek reservoir when the temperature or flow limits preclude the use of the Schuylkill River for supplying the plant's cooling water.

From project development through implementation, the effort has received input and feedback from the DRBC, Pennsylvania Department of Environmental Project, the Fish and Boat Commission, the Environmental Protection Agency, Schuylkill River Greenway Association, the Delaware Riverkeeper Network, water purveyors and other interested parties. The project is under the purview of the DRBC.

This innovative demonstration project has allowed Limerick another opportunity to give back to the community. To read more about this, please see "Limerick Generating Station Helps Improve Our Community's Environment" on page 3.

Exelon 2020: A Low-Carbon Roadmap

Exelon Nuclear plays an important role in reducing greenhouse gas emissions

Exelon Corporation recently unveiled a comprehensive environmental plan to reduce, offset or displace more than 15 million metric tons of greenhouse gas emissions per year by 2020. This ambitious plan is coined *Exelon 2020: A Low-Carbon Roadmap*.

The plan details an enterprise-wide approach and host of initiatives being perused by the Exelon family of companies to reduce Exelon's greenhouse gas (GHG) emissions and those of its customers, communities, suppliers and markets.

The Exelon 2020 plan will reduce, offset or displace more than the company's current annual carbon footprint and this is equivalent to taking nearly 3 million cars off American roads and highways.

Exelon Nuclear's fleet of generation facilitates already play a large role in reducing greenhouse gas emissions. Nuclear energy plants emit virtually no greenhouse gas emissions in their operations. To that point, Exelon Nuclear's electricity generation prevents more than 120 million metric tons of carbon dioxide emissions yearly by eliminating the need for additional fossil fuel-based resources.

Exelon 2020 a low-carbon roadmap

Exelon Nuclear will play an even larger role in achieving this low carbon goal through further improvements in two key areas. First, Exelon Nuclear will improve electricity output from our nuclear fleet by examining uprates and other potential ways to increase generation. Secondly, we will undertake actions to improve energy efficiency in our buildings by 25 percent.

Our employees are participating in important recycling efforts to reduce the use of paper, packaging and plastics at work and at home. We have adjusted the lighting and temperatures of our buildings, as only the beginning of our efforts.

Exelon 2020: A Lower-Carbon Roadmap will be fully recognized with all of our employees and communities efforts. The roadmap is available at www.exeloncorp.com.

Global warming demands action. We're not waiting.

Through Exelon 2020, Exelon is pursuing three broad strategies:

1. Reduce or offset Exelon's own carbon footprint by reducing our energy consumption and operating to the highest environmental standards in every aspect of our internal operations and supply chain.
2. Help our customers and the communities we serve reduce their greenhouse gas emissions through industry-leading energy efficiency programs and a diverse portfolio of green products and services.
3. Offer more low-carbon electricity in the marketplace by expanding the capacity of our existing low-carbon generation fleet and introducing new low-carbon capacity. This will allow Exelon to displace other, high-emitting sources of generation and thereby reduce overall emissions in the regions we operate.

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Limerick Employees Raise $73,000 For Community

Limerick Generating Station employees contributed $73,000 to local non-profit organizations this past summer. The fundraisers were supported by Exelon Nuclear's Limerick station and organized by station employees.

"Because our employees live and work in this area, they are dedicated to making this region a better place to live for all residents," Chris Mudrick, vice president, said. "Limerick employees balance family, career and community, and I'm proud that Exelon Nuclear can help them in their efforts."

For the fifth year, station employees hosted the Annual Limerick Golf Outing. More than 213 golfers participated in the event to raise $65,000. Ten organizations benefited from golf outing, including:

- Meals on Wheels of Family Services in Pottstown
- Pottstown Cluster of Religious Communities
- YWCA of Pottstown
- Bridge of Hope BuxMont
- Creative Health Services
- Hedwig House of Pottstown
- Salvation Army of Pottstown
- Pottstown Bible Church
- North Coventry Food Pantry

Limerick employees sponsored Alex's Lemonade Stand at the nearby outlets.

- Pottstown Police Athletic League
- American Cancer Society

In addition to the golf outing, Limerick employees organized a fundraiser for Alex's Lemonade Stand. The event, raising $8,000, was held at the Philadelphia Premium Outlets, and hundreds of shoppers donated to the cause. This is the second year that Limerick employees have worked with Alex's Lemonade Stand.

So far in 2008, Limerick station has contributed $75,000 to various emergency preparedness, community, recreational and environmental organization.

"Giving is part of our corporate culture at Exelon. We pride ourselves on operating safely and being a good neighbor," Mudrick said.

Meet the Limerick Team


Weyer has worked in Limerick Security for five and half years.

Name: Randy Weyer

Position: Security Shift Supervisor at Limerick Generating Station

Residence: Douglassville, PA

Community Involvement: Youth Leader at New Hanover United Methodist Church

Having a job in security at a nuclear energy plant is no small task. It requires a lot of initial and continuous training. This includes classroom and in-field training.

"My job is to protect the public and the plant against any kind of security threat," Weyer said. "Why is my job so important? I have an extraordinary responsibility. I protect my family, neighbors and colleagues. It is a job that all of us at Limerick take very seriously, and it is something that I'm proud of."

Outside of work, Weyer enjoys spending time with his wife, Holly, and children Ellie, 4, and Brynn, 19 months-old, and playing basketball.

Limerick Generating Station Helps Improve Our Community's Environment

Limerick Generating Station overlooks the Schuylkill River, and it uses a small portion of the river's water in its operations. That's why improving and restoring the Schuylkill River watershed is so important to the men and women at the station.

As part of Limerick's water diversion program, Exelon Nuclear has partnered with the Schuylkill River Heritage Area to create the Schuylkill River Restoration Fund. The program supports projects that enhance the quality of water in the Schuylkill River and its tributaries. The Schuylkill River Heritage Area oversees the fund, distributing money annual to non-profit organizations and government agencies.

Exelon's annual contribution to the Fund is based on the amount of water that is no longer required to be pumped from the Delaware River or released from the Wdaesville Mine or Still Creek Reservoir to support Limerick's cooling water needs. In just three years, Exelon has contributed approximately $600,000 to the Fund. This money has funded nine basin projects. The projects range from agricultural remediation to storm water and sediment management.

"This is the most rewarding part of this project," said Craig Wyler, the Limerick Station engineer who spearheaded this project. "These restoration projects result in visible and measurable benefits to the river basin."

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If you have questions, please contact the Limerick Communications Manager.

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Baseload Energy Needed To Help Meet U.S. Electricity Demands

The United States will need nearly 300 new power plants by 2030. The U.S. Department of Energy forecasts the U.S. will need about 260,000 megawatts of new electric generating capacity by 2030, equivalent to 260 new large power plants. This rising electricity demand, along with concerns about greenhouse gas emissions, make new nuclear plants vital to our energy mix. Energy companies are developing license applications to build as many as 30 new commercial reactors in the U.S.

Baseload electricity plants, like nuclear, run continuously. Intermittent power sources, such as renewable energy from wind and solar, are not considered base-load sources because they are unpredictable and cannot be relied upon to run when the public needs electricity the most.

Exelon Generation Submits License Application For New Nuclear Energy Plant

In early September 2008, Exelon Generation submitted a Combined Construction and Operating License (COL) application to the U.S. Nuclear Regulatory Commission (NRC) seeking authorization to build and operate a new dual-unit nuclear generating facility in Victoria County, Texas.

"This is an historic time as Texas moves toward more clean energy sources and keeps pace with growing energy needs," said Thomas O'Neill, vice president for new plant development. "Nuclear energy is a safe, clean, reliable alternative, securing a diverse energy portfolio for both the state of Texas and the country."

Exelon's COL application is the 12th to be submitted to the NRC by a U.S. nuclear operating company in the past 14 months. The NRC's evaluation of the application is estimated to take three to four years and involves a technical review and public hearing. A decision on the license is not expected before 2012.

The proposed facility would be built on an 11,500-acre site about 13 miles south of Victoria, Texas. The two reactors would be capable of producing at least 3,000 megawatts, enough to power more than 1.85 million typical Texas homes. A megawatt is one million watts.

This is a graphic representation of what the plant would look like. If built, plant structures would occupy about 300 acres and a man-made lake for plant cooling would cover about 4,900 acres.

The application does not imply that Exelon has decided to build the plant. Among conditions that must be resolved before a final decision is made are public acceptance of the plant, NRC approval of the license application, assurances that a new nuclear plant can be financially successful based on market conditions, and that the government has made significant progress toward resolving questions around storage or recycling used nuclear fuel.

U.S. Electricity Demand Will Increase 25 Percent by 2030

(in billion kilowatt-hours)

Source: Energy Information Administration