

To: Jim Mehl, ERU Supervisor  
From: Zack Clayton, Rad Coordinator  
Subject: October Monthly Report  
Date:

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## Beans

Training: 0  
Drills: 2  
Meetings: 5  
Technical Assistance: 2  
Public Assistance: 1

Web Page Views: There were 16 page views in October.

## Coming Attractions

11/9 DOE Outreach  
11/15 WebEOC training  
11/26 DERR staff meeting  
12/6 Working Group  
12/6 SRIP

## Facility updates

### **FirstEnergy Nuclear Operating Company**

On October 3 the NRC published that FirstEnergy changed the name of its nuclear operations group Owner/Licensee to FirstEnergy Nuclear Generation, LLC (FENG).

### **Davis-Besse Nuclear Power Station**

Davis-Besse operated at full power for September.

### **Perry Nuclear Power Plant**

Perry operated for the month of October at full power.

On October 17, 2012 at 8:00 am the Perry Nuclear Power Plant computer was taken offline for scheduled maintenance. During this time the ERDS and E-Date information

systems was unavailable. The systems were restored at 2140 that evening. If an event had occurred while these systems were offline all information would be transmitted orally via telephone until the computer was brought back on line. See Event Number: 48415.

On October 28, at 1008 Perry Nuclear Power Plant lost their ability to transmit data to the Nuclear Regulatory Commission (NRC) via the Emergency Response Data System (ERDS). If an emergency occurs the plant would transmit data to the NRC via telephone. The computer was fixed at 1548 that afternoon. The plant notified the NRC. See Event Number: 48449.

On Tuesday morning, October 30, FENG notified the State that sirens around Perry had lost AC power due to Extra-tropical storm Sandy, but are being maintained on back-up batteries. Updates will be provided approximately every four hours by the utility regarding siren status. The affected sirens are listed below:

Lake County, 19 Sirens (L5, L6, L21, L22, L23, L24, L25, L26, L29, L30, L31, L33, L41, L42, L43, L45, L51, L52, L53)

Geauga County, 1 Siren (G4)

Ashtabula County, 1 Siren (A14)

As of 1518 on October 31, the following sirens were still operating on battery backup waiting for AC reconnection:

Lake County, 4 Sirens (L5, L24, L29, L30)

Geauga County, 1 Siren (G4)

Ashtabula County, 1 Siren (A14)

## **Beaver Valley Power Station**

### **Beaver Valley Unit I**

Unit I operated at full power for October.

On October 1 Unit 1 made a notification to the NRC that it was retracting a notification made on September 6 regarding a loss of power. Analysis indicated that this loss was not a reportable event. See Event Number: 48283.

### **Beaver Valley Unit II**

Unit II started and finished October in a refueling outage that started September 24. This was due to emergent work that developed during the outage.

On the weekend of October 6 Unit 2 made a notification to the NRC that one of the sixty six reactor vessel penetrations showed signs of cracking during testing as part of the outage. The penetration will be repaired prior to startup. See Event Number: 48387

## **Fermi II**

Fermi II operated at 68 per cent power in October due to the south recirculating reactor pump being out of service.

At 1700 EDT on October 29, 2012, Fermi 2 discovered a failure occurred with a data server within the Process Computer system at 0115 EDT on October 28, 2012. The failure of the data server affects data input to the server providing information to the Emergency Response Data System (ERDS). ERDS is currently not receiving updated information from Fermi data systems. Fermi 2 will notify the NRC when ERDS is back on line. See Event Number: 48451

## **Fermi III**

There were no reports for Fermi III in September. There are ADAMS submissions.

## **Portsmouth Enrichment Plant**

There were no reports for Portsmouth for September.

## **Activity**

- 10/2-3 Perry Ingestion Exercise the plume phase proceeded smoothly with no known findings for the State. Preliminary comments from the second day ingestion phase from FEMA indicate that the EPA sampling teams need to be directed to take center line soil samples from inside the restricted zone to confirm the isotope mix of the plume. This is being incorporated into the SOGs as their discussion of the reasons for doing this make sense. OEPA is choosing not to wait until the final report is released.
- 10/9 The URSB quarterly meeting was at the Columbiana County EOC. Reports were provided by NRC and the Plant. The FEMA representative was not able to attend the meeting. This is the last of the plant area visits for this year. The intent of these visits was to encourage the general public to come to the meetings. There were no public attendees to the three plant area meetings, but there were two visitors from the Ohio Radioactive Materials User Group at the Davis-Besse meeting.
- 10/10 State Nuclear Incident Plan group met at Ohio EMA to discuss the framework of an annex to the State plan for IED and RDD events. It

identified participants and preliminary contacts for the next meeting.

- 10/25 NEPAC at the FirstEnergy west campus office. Industry and county updates, and discussion of the 8 year exercise cycle. The draft findings from the Perry exercise were discussed and the State will ask FEMA to assign the mapping issue with the county to Ohio for action. The Lake County gave a shout out to Bart Ray and Kurt Kollar for their work with the county dose assessment program during the exercise.
- 10/31 Working Group met at Ohio EMA using the new meeting format. This should work well and development of an action item list within a week of the meeting should increase efficiency.
- 10/31 Terrorism Annex Procedures the meeting lacked some participation from all parties due to activation for Hurricane Sandy. The group is soliciting input from other states that have developed this type of plan.

## Office Issues

Waiting for computer upgrade.

## News, NRC Reports, and Statistics

### Operating Power Levels

October

Date	BV1	BV2	DB	Perry	Fermi2	
1	100	0	100	100	68	SOLAR MAGNETIC DISTURBANCE WARNING
8	100	0	100	100	68	High system voltage warning
15	100	0	100	100	68	
22	100	0	100	100	68	
29	100	0	100	100	68	
31	100	0	100	100	68	

### Information Notices

Unless otherwise noted, these are ADAMS Accession documents, are publicly available, and will be accessible via the public web site Electronic Reading Room in the Agency Document Access and Management System (ADAMS),

<http://www.nrc.gov/reading-rm/adams.html>

or to access generic communications files on the NRC Homepage:

<http://www.nrc.gov/reading-rm/doc-collections/gen-comm/reg-issues/2012/>.

To access these documents use the ADAMS Accession number listed with the title.  
This is in the format of : ML #####

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RIS 2012-11: NRC Staff Position On Dispositioning Boiling-Water Reactor Licensee  
Noncompliance With Technical Specification Requirements During Operations With A  
Potential For Draining The Reactor Vessel, dated September 26, 2012  
ADAMS Accession No.: ML11251A233

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Perry Nuclear Power Plant NRC Security Baseline Inspection Report  
05000440/2012403 – Cover Letter Only  
ADAMS Accession Number ML12271A408

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Beaver Valley: Forthcoming Pre-Submittal Meeting with FirstEnergy Nuclear Operating  
Company (TAC No. ME9582)  
ADAMS Accession No.: ML12265A203

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DAVIS-BESSE 2012 010 REVISED SHIELD BUILDING RCR  
ADAMS ACCESSION# ML12276A342

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Beaver Valley Power Station, Unit NOS. 1 and 2; Davis-Besse Nuclear Power Station,  
Unit No. 1; and Perry Nuclear Power Plant, Unit No. 1 – Issuance of Amendments RE:  
Change of the Name of the Owner/Licensee to FirstEnergy Nuclear Generation, LLC  
Accession Number: ML12221A413

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Summary of the September 26, 2012, Public Meeting to Discuss FENOC Fleet  
Performance –  
ADAMS Accession No. ML12277A408

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Fermi Power Plant, Unit 2; NRC Supplemental Inspection Report 05000341/2012406  
(U) – Cover Letter Only  
ADAMS Accession Number ML12278A364

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Beaver Valley - Final Significance Determination for a Security Related Greater than  
Green Finding and Notice of Violation - NRC Inspection Report Nos.  
05000334/2012405 and 05000412/2012405.

ADAMS Document Accession No.: ML12278A346

ADAMS Document Profiled as: Publicly Available/Non-Sensitive

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Subject: Beaver Valley Power Station, Unit NOS. 1 and 2 – Request for Additional  
Information Regarding Security Plan Review.

ADAMS Accession No.: ML12279A303

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Assessment Follow-Up Letter for Fermi Power Plant, Unit 2 –  
ADAMS Accession No. ML 12289A766

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Davis-Besse: Schedule Revision for the Safety Review of the Davis-Besse Nuclear Power Station, License Renewal Application (TAC ME4640).  
ADAMS Accession No. ML12277A180  
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Beaver Valley Power Station, Unit Nos. 1 and 2 – Request for Additional Information Regarding National Fire Protection Association Standard 805 License Amendment Extension Request (TAC Nos. ME9015 and ME9016)  
ADAMS Accession No.: ML12264a407  
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Fermi 2 - Correction Letter for Amendment re: TSTF-501, Revision 1, "Relocate Stored Fuel Oil and Lube Volume Values to Licensee Control"  
ADAMS Accession Number: ML12276A236  
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Davis-Besse Nuclear Power Station Integrated Inspection Report 05000346/2012004 –  
ADAMS Accession No. ML12298A167  
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Perry Nuclear Power Plant; NRC Baseline Emergency Preparedness Biennial Exercise Inspection Report 05000440/2012503  
ADAMS Accession Number ML12299A132  
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Information Notice 2012-19: License Renewal Post-Approval Site Inspection Issues, dated, October 23, 2012  
ADAMS Accession No. ML12242A195  
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Perry Nuclear Power Plant NRC Integrated Inspection Report 05000440/2012004 and 07200069/2012001  
ADAMS Accession Number ML12299A305  
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Perry Nuclear Power Plant NRC Supplemental Inspection Report 05000440/2012407 – Cover Letter Only  
ADAMS Accession Number ML12300A061  
\*\*\*\*\*

Davis-Besse: Request for Additional Information for the Review of the Davis-Besse Nuclear Power Station (TAC No. ME4640)  
ADAMS Accession No. ML12292A627  
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Detroit Edison Company Schedule for Submittal of the Fermi 3 COLA Incorporation of Emergency Preparedness Rule Changes.  
ADAMS Accession No. ML 12290A007  
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Letter re: Courtesy Copies of MDEQ and USACE Mitigation Documents.  
ADAMS Accession No. ML 12258A002  
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2012/09/19 Fermi COL - RE: Fermi 3 - Open Items Public Meeting Summary - Memo To File  
ADAMS Accession No. ML 12291A771

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Detroit Edison Company, Fermi 3 COLA, Request a Change to the Service List  
Associated with Fermi 3 Correspondence from the NRC.

ADAMS Accession No. ML 12290A006

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Fermi 3 - Detroit Edison Company Interim Response to NRC Request for Additional  
Information Letter No. 79.

ADAMS Accession No. ML 12290A005

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## News

# Shale well is planned near Pennsylvania nuclear plant

FirstEnergy, environmental agency see no problems with well being located  
a mile from Pennsylvania plant

By Bob Downing

Beacon Journal staff writer

Published: October 22, 2012 - 09:20 PM

A natural gas well that will be hydraulically fractured, or fracked, is planned one mile  
from FirstEnergy Corp.'s Beaver Valley Nuclear Power Station in western Pennsylvania.  
A spokeswoman from First- Energy said the Akron-based utility is not alarmed.

"We're not aware of any potential impacts and don't expect any," Jennifer Young said  
Monday. "We see no reason to be particularly concerned."

The issue came to light Friday when the Pennsylvania-based blog Shale Reporter  
outlined plans for the well by Chesapeake Energy Corp., the Oklahoma-based energy  
giant.

That story said experts can't say if locating a well so close to two nuclear power plants  
should raise red flags.

On Oct. 3, the Pennsylvania Department of Environmental Protection Agency approved  
a permit for the well, to be located 1.06 miles from the Beaver Valley plant at  
Shippingport, Pa. Drilling has not started.

Agency spokesperson John Poister told the Shale Reporter there are no required  
setbacks specifically relating to a required distance between such shale wells and  
nuclear facilities, just a blanket regulation requiring a 500-foot setback from any building  
to a natural gas well.

Poister said he doesn't believe there are geological concerns regarding fracking near a  
nuclear site.

With more than a mile setback distance, the newly permitted well would comply with  
state regulations.

Poister said he is not aware of any other nuclear power station located in an area where  
shale drilling is occurring.

Nuclear Regulatory Commission spokesperson Neil Sheehan said agency regulations focus only on operations within the nuclear site, the Shale Reporter said.

Earthquakes have been linked to injection wells — not production wells like the Beaver Valley well — in Youngstown and other locations, including Arkansas and Texas. The largest Youngstown quake registered 4.0 magnitude.

Sheehan said seismic analysis is conducted before any nuclear power plant in the United States is designed and built.

FirstEnergy officials have said the Beaver Valley plants were built to withstand a 5.8-magnitude earthquake.

The strongest quake ever recorded in Pennsylvania registered 5.2 magnitude.

Bob Downing can be reached at 330-996-3745 or [bdowning@thebeaconjournal.com](mailto:bdowning@thebeaconjournal.com).

**Find this article at:**

<http://www.ohio.com/news/local/shale-well-is-planned-near-pennsylvania-nuclear-plant-1.344237>

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# NRC NEWS

## U.S. NUCLEAR REGULATORY COMMISSION

Office of Public Affairs Telephone: 301/415-8200

Washington, D.C. 20555-0001

E-mail: [opa.resource@nrc.gov](mailto:opa.resource@nrc.gov) Site: [www.nrc.gov](http://www.nrc.gov)

Blog: <http://public-blog.nrc-gateway.gov>

## **NRC SPONSORING NATIONAL ACADEMY OF SCIENCES EFFORT TO CARRY OUT PILOT OF CANCER RISK STUDY**

The Nuclear Regulatory Commission staff is implementing a National Academy of Sciences committee's recommendations to perform a pilot study of cancer risk in populations around six U.S. nuclear power plant sites and a nuclear fuel facility. The NRC is asking the Academy to carry out this effort, which will help the agency determine whether to extend the study to the remaining U.S. reactor and certain fuel cycle sites.

The pilot effort, described in the staff's update (SECY-12-0136) to the agency's five Commissioners, will examine each of the seven sites with two types of epidemiological studies. The first will examine multiple cancer types in populations living near the facilities; the second will be a case-control study of cancers in children born near the facilities. The six reactor sites are: Dresden Nuclear Power Station, Morris, Ill.

Millstone Power Station, Waterford, Conn.

Oyster Creek Nuclear Generating Station, Forked River, N.J.

Haddam Neck (decommissioned), Haddam Neck, Conn.

Big Rock Point Nuclear Power Plant (decommissioned), Charlevoix, Mich.

San Onofre Nuclear Generating Station, San Clemente, Calif.

The Dresden, Millstone and San Onofre sites include both operating reactors and a decommissioned reactor. The pilot effort will also study Nuclear Fuel Services in Erwin, Tenn. The Academy recommended these sites because they provide a good sampling of facilities with different operating histories, population sizes, and levels of complexity in data retrieval from the relevant state cancer registries.

The NRC will work with the Academy to begin the pilot study process in the next three months. The NRC staff expects the effort will continue at least into 2014 and cost approximately \$2 million. The Academy will work with interested parties near the sites prior to gathering information and beginning the necessary analyses.

The NRC/Academy effort's overall aim is to provide a modern version of the 1990 U.S. National Institutes of Health – National Cancer Institute (NCI) report, "Cancer in Populations Living Near Nuclear Facilities." The NRC has used the 1990 NCI report as a primary resource when communicating with the public about cancer mortality risk in counties that contain or are adjacent to certain nuclear power facilities.

In Phase 1 of the study, the Academy developed proposed methods for examining the most up-to-date cancer information in populations living near NRC-licensed nuclear facilities. The pilot studies will determine the feasibility of using these methods on the balance of the remaining operating nuclear power facilities and certain fuel cycle facilities in phase 2 of the project.

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## **NRC launches long-awaited assessment of cancer risk near reactors**

Hannah Northey, E&E reporter

Published: Wednesday, October 24, 2012

Federal regulators are beginning the daunting task of trying to determine whether living near nuclear reactors and other facilities is linked to a higher risk of cancer more than two decades after a major study found such a link doesn't exist.

The Nuclear Regulatory Commission has asked the National Academy of Sciences to begin studying multiple cancer types in people living near six nuclear reactors and other sites in California, Connecticut, Illinois, Michigan, New Jersey and Tennessee. The academy will also examine cancers in children born near the plants in a case-control study.

The academy is slated to release its findings in 2014. If successful, the \$2 million pilot project could be extended to all of the country's 104 operating reactors, NRC spokesman Scott Burnell said.

The NRC is currently relying on a 1990 National Cancer Institute survey that agency officials have pegged as outdated and limited in scope. That report found cancer mortality rates were not elevated in populations living near 62 nuclear facilities.

The NRC decided to update the study because of high public interest, Burnell said.

The study is slated to begin at six sites: the Dresden plant in Morris, Ill.; Millstone Power Station in Waterford, Conn.; Oyster Creek Nuclear Generating Station in Forked River, N.J.; the decommissioned Haddam Neck plant in Haddam Neck, Conn.; the decommissioned Big Rock Point plant in Charlevoix, Mich.; and the San Onofre plant near San Clemente, Calif. NAS will also review cancer rates in people living near the Nuclear Fuel Services plant in Erwin, Tenn., where nuclear fuel for the Navy's fleet of nuclear-powered aircraft carriers and submarines is manufactured.

But the academy faces challenges in collecting the data, and the leading nuclear industry group, the Nuclear Energy Institute, is opposing the pilot study.

NAS acknowledged in March that some state cancer registries have only recently attained quality data and that information about cancer risks might be insufficient to estimate the amount of radioactive material released from nuclear facilities ([Greenwire](#), March 29).

Information on the movement of populations and external factors may also complicate the academy's findings, including exposure to cigarette smoke, access to health care, contact with toxic chemicals and exposure to other sources of radiation such as medical procedures like CT scans, NAS said.

NEI says it's questionable whether the study will generate "technically defensible results" and pointed out that the academy acknowledged the necessary data may be of poor quality or missing. The industry group also noted that routine releases of effluents into the air and water are carefully monitored and controlled at reactors across the nation.

Burnell said the NRC isn't expecting NAS to observe any increased cancer risks for people living near nuclear plants. The NRC receives information from plant operators -- through ongoing monitoring and sampling -- that suggests any radiation dose to the public is so low that being able to detect a difference in cancer rates is unlikely, he said. "But the questions remain among the public, so we're having the academy do this work to provide independent answers on this basic question," he said.

Rep. Ed Markey (D-Mass.), an outspoken opponent of nuclear power, applauded the NRC's decision to move forward with the study.

"I have long been concerned about whether there are any adverse health impacts associated with living near nuclear reactors," Markey said in a statement. "It is my hope that this pilot study will result in a thorough, accurate accounting of the health risks associated with living near nuclear facilities."

Source: <http://www.eenews.net/Greenwire/2012/10/24/4>

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## **Davis-Besse Nuclear Power Station completes new emergency operations facility**

Posted: 10/23/2012

AKRON, Ohio - Construction of the emergency operations facility for FirstEnergy's Davis-Besse Nuclear Power Station has been completed.

Located in Lindsey, Ohio, the new 12,000-square-foot facility supports overall management of activities related to maintaining public health and safety during the unlikely event of an emergency at the plant.

The facility also will be used by Davis-Besse's emergency response organization during quarterly training drills and bi-annual exercises evaluated by the Nuclear Regulatory Commission and the Federal Emergency Management Agency to ensure preparedness to respond to an emergency.

The facility replaces an existing emergency operations facility located on site at Davis-Besse.

"The new Emergency Operations Facility plays a critical role in protecting the health and safety of the public by supporting timely, efficient communications with emergency responders in the event of an urgent situation at the plant," said Ray Lieb, site vice president of Davis-Besse in a news release. "The state-of-the-art facility reflects our commitment to safety and strong sense of responsibility to the community."

Features of the new, state-of-the-art Emergency Operations Facility include:

- enhanced technologies that aid in timely monitoring and collection of environmental data
- secured, online database for sharing plant conditions and other event information in real time between company, local, county and state emergency responders
- updated computer equipment; and diverse telecommunications technology to enhance communications capabilities.

In addition, multiple power supplies ensure the facility will not be affected by a power failure.

Source: [http://www.newsnet5.com/dpp/money/business\\_news/davis-besse-nuclear-power-station-completes-new-emergency-operations-facility](http://www.newsnet5.com/dpp/money/business_news/davis-besse-nuclear-power-station-completes-new-emergency-operations-facility)

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## **Do you live near a nuclear power plant? Study will assess cancer risks**

By **Mike M. Ahlers**, CNN

updated 1:12 PM EDT, Wed October 24, 2012

### **STORY HIGHLIGHTS**

- NRC is pushing forward with the study because an oft-cited 1990 study is dated

- Seven nuclear facilities from Connecticut to California will be involved in the pilot study
- Researchers wouldn't expect any increased cancer risks for nearby residents, NRC says

**(CNN)** -- More than 20 years after a major study said there is no evidence that people who live near nuclear power plants face an increased risk of dying from cancer, the federal government will look anew at the subject, starting with seven nuclear facilities from Connecticut to California.

The Nuclear Regulatory Commission said Tuesday it is pushing forward with the study because an oft-cited 1990 study is dated and because more modern methods of analysis and information sources are available.

In a briefing paper, the NRC staff says that given the known amounts of radiation released from nuclear reactors, researchers would not expect to observe any increased cancer risks for nearby residents.

Nevertheless, the staff says, the studies would be "helpful to address public health concerns" and could be a tool for allaying public health concerns.

While some civic groups have supported the study, the top industry trade group had argued against it, saying the study is "unlikely to produce scientifically defensible results."

In a pilot project to begin in the coming months, the NRC is commissioning the National Academy of Sciences to conduct cancer risk studies at six nuclear power plants and one nuclear fuel facility. If successful, the study would likely be expanded to the rest of the nation's 104 commercial nuclear reactors.

The six nuclear power plants in the initial study are:

- San Onofre Nuclear Generating Station, San Clemente, California.
- Dresden Nuclear Power Station, Morris, Illinois.
- Millstone Power Station, Waterford, Connecticut.
- Oyster Creek Nuclear Generating Station, Forked River, New Jersey.
- Haddam Neck, a decommissioned plant in Haddam Neck, Connecticut.
- Big Rock Point Nuclear Power Plant, a decommissioned plant in Charlevoix, Michigan.

In addition, the pilot study will look at Nuclear Fuel Services in Erwin, Tennessee.

The pilot study will take two to three years to complete and will cost about \$2 million.

For the past two decades, the NRC has relied on a National Cancer Institute's report, "Cancer Risks in Populations near Nuclear Facilities," published in a 1991 edition of the Journal of the American Medical Association.

That study showed no general increased risk of death from cancer for people living in 107 counties containing or near 62 nuclear facilities.

When compared with control counties, some of the study counties had higher rates of certain cancers and some had lower rates. None of the differences could be linked to the presence of nuclear facilities, according to a synopsis of the study on the cancer institute's website.

"From the data at hand, there was no convincing evidence of any increased risk of death from any of the cancers we surveyed due to living near nuclear facilities," John Boice, chief of NCI's Radiation Epidemiology Branch at the time of the survey, is quoted as saying. But he cautioned that the study had limitations, saying, "If any excess cancer

risk due to radiation pollution is present in counties with nuclear facilities, the risk is too small to be detected by the methods used."

Several years ago, the NRC staff started efforts to update the study because of the ongoing public interest in the issue, said NRC spokesman Scott Burrell. When the National Cancer Institute indicated it could not perform the work, Congress directed the NRC to work with the National Academy of Sciences.

The academy developed methods for assessing radiation near nuclear plants and for assessing cancer rates in nearby communities. The academy recommended performing two types of epidemiology studies -- a geography-based study of people with various cancers living near nuclear facilities, and a study of cancers in children born near nuclear facilities.

The academy selected the six nuclear power plants because they were a "good sampling" with different operating histories and population sizes.

Of the 74 individuals or organizations to comment on the proposed study, 44 encouraged the NRC to proceed.

But the Nuclear Energy Institute did not support the study, saying an epidemiological study "will likely involve an outlay of significant resources without much expectation" it would advance scientific understanding of potential risks.

Other cancer risk factors, such as smoking or exposure to medical radiation, may surpass the effect from power plant releases and "overwhelm the actual effect attributed to the releases," the group said.

Source: [http://www.cnn.com/2012/10/23/health/study-nuclear-plants/index.html?hpt=us\\_bn2](http://www.cnn.com/2012/10/23/health/study-nuclear-plants/index.html?hpt=us_bn2)

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## Plant Reports

Part 21	Event Number: 48359
Rep Org: FAIRBANKS MORSE Licensee: FAIRBANKS MORSE Region: 3 City: BELOIT State: WI County: License #: Agreement: Y Docket: NRC Notified By: DOMINIC DEDOLPH HQ OPS Officer: PETE SNYDER	Notification Date: 09/28/2012 Notification Time: 21:03 [ET] Event Date: 09/28/2012 Event Time: [CDT] Last Update Date: 09/28/2012
Emergency Class: NON EMERGENCY 10 CFR Section: 21.21(d)(3)(i) - DEFECTS AND NONCOMPLIANCE	Person (Organization): RONALD BELLAMY (R1DO) REBECCA NEASE (R2DO) CHRISTINE LIPA (R3DO) GREG WERNER (R4DO) PART 21 GROUP (EMAI)

## Event Text

## PART 21 - FAIRBANKS MORSE OPPOSED PISTON EDG FUEL OIL PUMP LEAK

The following information was received via fax and email:

"Utilities operating Fairbanks Morse (FM) Opposed Piston (OP) Emergency Diesel Generators (EDG) are as follows:

"Constellation Energy - Calvert Cliffs;

"Dominion - North Anna, Millstone;

**"DTE - Fermi II;**

"Entergy - Vermont Yankee; Arkansas Nuclear One;

"Exelon - Limerick, Peach Bottom, Three Mile Island;

"Next Era Energy - Duane Arnold;

"Progress Energy - H.B. Robinson, Crystal River 3;

"Southern Company - Georgia Power (Plant Hatch), Alabama Power (Plant Farley);

"Xcel Energy - Prairie Island.

"The defect is a significant oil leak from the fuel oil pump shaft. Leakage will occur if the mechanical seal area within the pump is displaced by an impact to the pump shaft during shipment and handling.

"Even with a significant leak the pump has sufficient capacity to provide the proper operating pressure and volume of fuel oil to start the engine / EDG within the design specifications and continue operating the EDG at 100% load. However, the significant amount of fuel oil leaking while the system is under pressure, during standby and operating conditions, could potentially result in having an inadequate volume of stored fuel for the EDG to fulfill the seven day operating mission.

"FM has instituted the following corrective actions which will be effective on all shipments after September 28, 2012:

"1. Hydrostatic testing will be performed at FM during the dedication.

"2. Outgoing shipments will be packaged in accordance with a new packaging procedure which requires the pump be secured to a piece of wood or directly to a skid, thus prevents an impact to the shaft during shipment.

"Customers should perform a visual inspection after installation to ensure the fuel pump has no leaks. Defective pumps will have an immediate and significant leak.

"All installed pumps that are free of leaks are acceptable for continued operation."

Fairbanks Morse Report Number 12-01 - Issued Sept 28, 2012

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!!!! THIS EVENT HAS BEEN RETRACTED. THIS EVENT HAS BEEN RETRACTED

!!!!	
Power Reactor	Event Number: 48283
Facility: BEAVER VALLEY Region: 1 State: PA Unit: [1] [ ] [ ] RX Type: [1] W-3-LP,[2] W-3-LP NRC Notified By: ROBERT KRISTOPHEL HQ OPS Officer: PETE SNYDER	Notification Date: 09/06/2012 Notification Time: 19:20 [ET] Event Date: 09/06/2012 Event Time: 14:16 [EDT] Last Update Date: 10/01/2012
Emergency Class: NON EMERGENCY 10 CFR Section: 50.72(b)(3)(v)(D) - ACCIDENT MITIGATION	Person (Organization): RICHARD CONTE (R1DO)

Unit	SCRAM Code	RX CRIT	Initial PWR	Initial RX Mode	Current PWR	Current RX Mode
1	N	Y	100	Power Operation	100	Power Operation

#### Event Text

#### BOTH OFFSITE POWER SOURCES INOPERABLE

"At 1416 EDT, after consultation with the Unit 1 control room, the #1 138 KV bus in the Beaver Valley switchyard was deenergized by the grid system operator in response to a degraded switchyard breaker. The bus loss caused the Unit 1 A train offsite power supply to be inoperable. The Unit 1 B train offsite power supply was previously inoperable due to planned maintenance on its transformer cooling fan control circuit. The Unit 1 B train offsite power supply remained energized and available during this event. Both Emergency Diesel Generators remained operable and both emergency buses remained energized from the onsite source and operable during this event.

"At 1425 EDT the #1 138 KV bus was re-energized. The planned maintenance was completed on the B train offsite power supply transformer. Following testing, at 1452 EDT both offsite power supplies were declared operable.

"This notification is provided in accordance with 10CFR50.72(b)(3)(v)(D) since both offsite power supplies were inoperable from 1416 EDT to 1452 EDT on 9/6/12."

The licensee notified the NRC Resident Inspector.

\* \* \* RETRACTION FROM DAN SCHWER TO JOHN KNOKE AT 1242 EDT ON 10/01/12 \* \* \*

"Beaver Valley Unit 1 is retracting EN # 48283 based on completion of an engineering evaluation. The evaluation determined that the Unit 1 'B' train offsite power supply was operable and capable of performing its safety function with its transformer cooling fan

control circuit out of service for planned maintenance. Since one train of offsite power was determined to be operable, this condition is not reportable under 10CFR50.72(b)(3)(v)(D).

"The NRC Resident Inspector has been notified." Notified R1DO (Wayne Schmidt).

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Power Reactor	Event Number: 48338
Facility: FERMI Region: 3 State: MI Unit: [2] [ ] [ ] RX Type: [2] GE-4 NRC Notified By: BRETT JEBBIA HQ OPS Officer: BILL HUFFMAN	Notification Date: 09/24/2012 Notification Time: 11:23 [ET] Event Date: 09/24/2012 Event Time: 04:07 [EDT] Last Update Date: 10/06/2012
Emergency Class: NON EMERGENCY 10 CFR Section: 50.72(b)(3)(xiii) - LOSS COMM/ASMT/RESPONSE	Person (Organization): MARK RING (R3DO)

Unit	SCRAM Code	RX CRIT	Initial PWR	Initial RX Mode	Current PWR	Current RX Mode
2	N	Y	68	Power Operation	68	Power Operation

**Event Text**

**EMERGENCY RESPONSE DATA SYSTEM PROCESS COMPUTER DATA SERVER FAILURE**

"At 04:07 EDT on September 24, 2012, Fermi 2 experienced a failure of a data server within the Process Computer system. The failure of the data server does affect data input to the server providing information to the Emergency Response Data System (ERDS). ERDS is currently not receiving updated information from Fermi data systems. This loss in capability is being reported as a loss of assessment capability in accordance with 10 CFR 50.72(b)(3)(xiii).

"Indications of related plant variables are available in the Main Control Room. The Visual Annunciator System (VAS) and other portions of the Process Computer system remain functional. Meteorological and process effluent radiological monitor indications are available and dose assessment capability is available. Fermi 2 personnel will use normal phone communications to update NRC Operations Center in the case of an event declaration. Information normally provided by ERDS can be transmitted via the notification system as described in the Radiological Emergency Response Preparedness Plan."

The licensee has notified the NRC Resident Inspector.

\* \* \* UPDATE FROM MARK EGHIGIAN TO CHARLES TEAL AT 1435 EDT ON

10/6/12 \* \* \*

"On September 24, 2012, Fermi experienced a failure of a data server within the process computer system which feeds data to Emergency Response Data System (ERDS), and report #48338 was made to the NRC.

"On October 6, 2012, corrective maintenance is complete, which repaired the data server and ERDS functionality is restored."

The licensee has notified the NRC Resident Inspector. Notified R3DO (Valos).

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Power Reactor	Event Number: 48387
Facility: BEAVER VALLEY Region: 1 State: PA Unit: [ ] [2] [ ] RX Type: [1] W-3-LP, [2] W-3-LP NRC Notified By: BLASE BARTKO HQ OPS Officer: CHARLES TEAL	Notification Date: 10/06/2012 Notification Time: 17:07 [ET] Event Date: 10/06/2012 Event Time: 16:35 [EDT] Last Update Date: 10/06/2012
Emergency Class: NON EMERGENCY 10 CFR Section: 50.72(b)(3)(ii)(A) - DEGRADED CONDITION	Person (Organization): JAMES TRAPP (R1DO)

Unit	SCRAM Code	RX CRIT	Initial PWR	Initial RX Mode	Current PWR	Current RX Mode
2	N	N	0	Refueling	0	Refueling

#### Event Text

#### ONE OF SIXTY SIX REACTOR VESSEL PENETRATIONS DID NOT MEET ACCEPTANCE CRITERIA

"On 10/6/2012 during the Beaver Valley Power Station Unit No. 2 (BVPS-2) refueling outage, it was determined that the results of planned ultrasonic (UT) examinations performed on one of the 66 penetrations of the reactor vessel head would not meet the applicable acceptance criteria. This penetration will require repair prior to returning the vessel head to service. The indications are not through wall and there was no evidence of leakage based on inspections performed on the top of the reactor vessel head. The examinations were being performed to meet the requirements of 10CFR50.55a(g)(6)(ii)(D) and ASME Code Case N-729-1, to find potential flaws/indications well before they grow to a size that could potentially jeopardize the structural integrity of the reactor vessel head pressure boundary. Currently 60 of 66 penetrations have been examined, with 59 satisfactory; all of the penetrations will be examined during the current refueling outage.

"The plant is currently shutdown and in Mode 6 and the reactor vessel head is not

currently installed. Repairs are currently being planned and will be completed prior to startup.

"This is reportable pursuant to 10CFR50.72(b)(3)(ii)(A) since the as-found indications did not meet the applicable acceptance criteria referenced in ASME Code Case N-729-1 to remain in-service without repair.

"The NRC Resident Inspector has been notified."

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Power Reactor	Event Number: 48415
Facility: PERRY Region: 3 State: OH Unit: [1] [ ] [ ] RX Type: [1] GE-6 NRC Notified By: GLENDON BURNHAM HQ OPS Officer: PETE SNYDER	Notification Date: 10/17/2012 Notification Time: 07:40 [ET] Event Date: 10/17/2012 Event Time: 08:00 [EDT] Last Update Date: 10/17/2012
Emergency Class: NON EMERGENCY 10 CFR Section: 50.72(b)(3)(xiii) - LOSS COMM/ASMT/RESPONSE	Person (Organization): STEVE ORTH (R3DO)

Unit	SCRAM Code	RX CRIT	Initial PWR	Initial RX Mode	Current PWR	Current RX Mode
1	N	Y	100	Power Operation	100	Power Operation

**Event Text**

**EMERGENCY RESPONSE DATA SYSTEM (ERDS) OUT OF SERVICE**

"At approximately 0800 hours EDT on October 17, 2012, computer engineering personnel will be taking the plant integrated computer system (ICS) out-of-service for planned maintenance. During the time ICS is out-of-service, the Safety Parameter Display System (SPDS) and the Emergency Response Data System (ERDS) will be unavailable. The computer outage is scheduled for twelve hours.

"In the event of an emergency, plant parameter data will be communicated to the facilities through the Status Board Ring Down circuit with back-up by the Private Branch Exchange, Off Premise Exchange, and various redundant intra-facility circuits throughout the emergency facilities. The dose assessment function will be maintained during the out-of-service time period by manual input of data into the Meteorological Information and Dose Assessment System (MIDAS). The ability to open and maintain an 'open line' using the Emergency Notification System will not be affected and will be the primary means of transferring plant data to the NRC as a contingency until the ERDS can be returned to service.

"This event is being reported in accordance with 10 CFR 50.72(b)(3)(xiii). A follow-up

notification will be made when the maintenance activities are complete and the equipment is restored. The [NRC] Resident Inspector has been notified."

\* \* \* UPDATE FROM THOMAS MORSE TO VINCE KLCO ON 10/17/12 AT 2146 EDT  
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As of 2140 EDT on 10/17/12, the ERDS system was tested and restored to service. The licensee notified the NRC Resident Inspector.

Notified the R3DO (Orth).

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Power Reactor	Event Number: 48449
Facility: PERRY Region: 3 State: OH Unit: [1][ ][ ] RX Type: [1] GE-6 NRC Notified By: JIM PRY HQ OPS Officer: DONG HWA PARK	Notification Date: 10/28/2012 Notification Time: 16:27 [ET] Event Date: 10/28/2012 Event Time: 10:08 [EDT] Last Update Date: 10/28/2012
Emergency Class: NON EMERGENCY 10 CFR Section: 50.72(b)(3)(xiii) - LOSS COMM/ASMT/RESPONSE	Person (Organization): PATTY PELKE (R3DO)

Unit	SCRAM Code	RX CRIT	Initial PWR	Initial RX Mode	Current PWR	Current RX Mode
1	N	Y	100	Power Operation	100	Power Operation

**Event Text**

**EQUIPMENT FAILURE AFFECTING SPDS AND ERDS**

"At approximately 1008 EDT on October 28th, 2012, a failure between the Plant Computer and the MMI (Man Machine Interface) occurred. The cause is due to a failure of the data diode. The Plant Computer is still working however the MMI is not, therefore Safety Parameter Display System (SPDS) outside of the Control Room and the Emergency Response Data System (ERDS) is unavailable.

"In the event of an emergency, plant parameter data will be communicated to the facilities through the status board ring down circuit with back-up by the Private Branch Exchange (PBX), Off Premise Exchange (OPX), and various redundant intra-facility circuits throughout the emergency facilities. The dose assessment function is maintained during this out of service time period by manual input of data into the Meteorological Information and Dose Assessment System (MIDAS). The ability to open and maintain an 'open line' using the Emergency Notification System is not affected and will be the primary means for transferring plant data to the NRC as a contingency until the ERDS can be returned to service.

"At 1548 EDT on October 28th, 2012, a re-start of the data diode was successful in restoring the connection between the Plant Computer and the MMI. SPDS and the ERDS are functioning as designed.

"This event is being reported in accordance with 10 CFR 50.72(b)(3)(xiii). The NRC Resident Inspector has been notified."

The licensee has notified the State and local agencies.

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Power Reactor	Event Number: 48451
Facility: FERMI Region: 3 State: MI Unit: [2] [ ] [ ] RX Type: [2] GE-4 NRC Notified By: BRETT JEBBIA HQ OPS Officer: DAN LIVERMORE	Notification Date: 10/29/2012 Notification Time: 18:15 [ET] Event Date: 10/29/2012 Event Time: 17:00 [EDT] Last Update Date: 10/29/2012
Emergency Class: NON EMERGENCY 10 CFR Section: 50.72(b)(3)(xiii) - LOSS COMM/ASMT/RESPONSE	Person (Organization): LAURA KOZAK (R3DO)

Unit	SCRAM Code	RX CRIT	Initial PWR	Initial RX Mode	Current PWR	Current RX Mode
2	N	Y	68	Power Operation	68	Power Operation

**Event Text**

**ERDS LOST DUE TO PROCESS COMPUTER SYSTEM DATA SERVER FAILURE**

"At 1700 EDT on October 29, 2012, Fermi 2 discovered a failure occurred with a data server within the Process Computer system at 0115 EDT on October 28, 2012. The failure of the data server affects data input to the server providing information to the Emergency Response Data System (ERDS). ERDS is currently not receiving updated information from Fermi data systems. This loss in capability is being reported as a loss of assessment capability in accordance with 10 CFR 50.72(b)(3)(xiii).

"Indications of related plant variables are available in the Main Control Room. The Visual Annunciator System (VAS) and other portions of the Process Computer system remain functional. Meteorological and process effluent radiological monitor indications are available and dose assessment capability is available. Fermi 2 personnel will use normal phone communications to update NRC Operations Center in the case of an event declaration. Information normally provided by ERDS can be transmitted via the notification system as described in the Radiological Emergency Response Preparedness Plan. Fermi 2 will notify the NRC when ERDS is returned to service."

The licensee has notified the NRC Resident Inspector. Notified R3DO (Kozak).

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