

To: Jim Mehl, ERU Supervisor  
From: Zack Clayton, Rad Coord  
Subject: February Monthly Report  
Date: March 11, 2009

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#### Beans:

Training: 0  
Drills 0  
Meetings: 3  
Technical Assistance: 2  
Public Assistance: 3

Web Page Hits: There were 66 RAD hits in February.

#### Coming Attractions:

Working Group 3/4  
DB systems 3/12  
MMRC Group 3/19  
NEPAC 3/25  
DB tabletop 3/26

#### Facility Updates:

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

Davis Besse operated at full power for the month of February. There were no event reports.

##### **Perry Nuclear Power Plant**

Perry operated at full power until late February 6 when it reduced power to approximately 70% for power rod adjustments and returned to full power early morning February 7. The Plant does this to maximize fuel usage.

The Perry Plant informed the State at 1430, February 9 that they would be taking their in-plant computer system out of service for maintenance the morning of February 10 at 0730 for a duration of 6 to 8 hours. This will result in a 50.72 b notification to the NRC as a notification of event # 44843.

This action impacts the operations of the ERDS (Emergency Response Data System), ICS (In-Plant Computer System), CADAP (Computer Aided Dose Assessment Program), and the E-Data (Electronic Data).

Perry entered their refueling outage February 22.

Perry Nuclear Power Plant took the Plant Computer out of service for

scheduled maintenance February 27. It was out of service for approximately 15 hours. See event # 44881.

### **Beaver Valley Unit I**

Beaver Valley Unit I operated at full power for the month of February. There were no event reports.

### **Beaver Valley Unit II**

Beaver Valley Unit II operated at full power until February 21 when they reduced power to conduct normal maintenance on their condensers. There were no event reports.

### **Fermi II**

Fermi started the month at reduced power for rod pattern adjustment and went to full power on Feb 2. On Feb 15 Fermi went to 90% power for rod pattern adjustment and then operated at reduced power until the 19<sup>th</sup> for turbine steam line repairs and turbine valve testing.

Fermi discovered the HVAC in the technical support center was inoperative on the 2<sup>nd</sup> and declared event #44824.

### **Portsmouth Gaseous Diffusion Plant**

There were no reported incidents in February.

### **Activity:**

Feb 11 Working Group at OEMA. The Beaver Valley Hostile Action Drill finished off the series at FENOC. Every plant in the United States will have one of these drills before the end of 2009. There will be a compilation of lessons learned and probable integration of this exercise into the evaluation cycle. The replacement public KI shipment has been pushed back to March. FEMA is considering application of phased evacuations for power plants.

Feb 19 CMMRS met and discussed available equipment for population screening for radioactive contamination in Central Ohio. The hospitals have portal monitors, but they are not easily portable.

Feb 20 NEPAC was canceled with a reschedule date to be determined.

Feb 24 Zack and Steven presented the grant proposal to FENOC. There were a couple of questions, but the proposal was accepted as is.

### **Office Issues:**

The RAT is sending groups of six to the PER-241 training in Mercury, NV.

## NRC Reports and Statistics:

### February operating power levels

Date	BV1	BV2	DB	Fermi2	Perry	
1	100	100	100	98	100	Fermi – powering up after rod adjustments
2	100	100	100	100	100	
7	100	100	100	100	81	Perry – rod pattern adjustment
9	100	100	100	100	100	
15	100	100	100	90	100	Fermi – rod pattern adjustment
16	100	100	100	93	100	Fermi – power limited steamline repairs
19	100	100	100	100	100	
21	100	81	100	100	100	BV - maintenance
22	100	100	100	100	0	Perry – refueling outage
23	100	100	100	100	0	
28	100	100	100	100	0	

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Perry Nuclear Power Plant, Unit No. 1 - Clarification Of Intention to Adopt National Fire Protection Association 805 Performance-Based Standard For Fire Protection For Light Water Reactor Generating Plants 2001 Edition  
The document is 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> ,  
ADAMS Accession No. ML090360559

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PDF version of RIS 2007-01, Rev. 1, Adherence To Licensed Power Limits, dated February 9, 2009 (ML090220365), that has been posted to the NRR GCC Web, along with the URL for Web access to generic communications files on the NRC Homepage:  
<http://www.nrc.gov/reading-rm/doc-collections/gen-comm/reg-issues/2007/>

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PDF version of RIS 2009-03, Process For Scheduling Acceptance Reviews Of New Reactor Licensing Applications After April 2009 And Process For Determining Budget Needs For Fiscal Year 2011, dated February 12, 2009 (ML083260416), that has been posted to the NRR GCC Web, along with the URL for Web access to generic communications files on the NRC Homepage:  
<http://www.nrc.gov/reading-rm/doc-collections/gen-comm/reg-issues/2009/>

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Information Notice 2009-04, Age-Related Constant Support Degradation dated February 18, 2009 (ML090340754), that has been posted to the NRR GCC Web, along with the URL for Web access to generic communications files on the NRC Homepage:  
<http://www.nrc.gov/reading-rm/doc-collections/gen-comm/info-notices/2009/>.

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Regulatory Issue Summary 2000-08, Rev. 1, Voluntary Submission of Performance Indicator Data, dated February 19, 2009 (ML083290153), that has been posted to the NRR GCC Web, along with the URL for Web access to generic communications files on the NRC Homepage:  
<http://www.nrc.gov/reading-rm/doc-collections/gen-comm/reg-issues/2000/>

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Beaver Valley Power Station, Unit Nos. 1 and 2 - Audit of the Licensee's Management of Regulatory Commitments (TAC Nos. MD9851 and MD9852)  
The document is 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>  
To access this document use ADAMS Accession No: ML090400172

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**NUCLEAR ENERGY: U.S. reactors running beyond 90% capacity -- survey**  
**(02/04/2009)**  
**Katherine Ling, E&E reporter**

U.S. nuclear power plants operated on average above 90 percent of their capacity last year -- better than other electricity producers, according to the Nuclear Energy Institute. The industry-average capacity factor was 91.1 percent and produced about 805 billion kilowatt-hours of electricity, NEI said. Both numbers fell just short of the 2007 record. By comparison, coal-fired plants have a 70 percent capacity factor on average, natural gas power plants 40 percent and wind 30 percent. One of every five houses and businesses runs on electricity from nuclear plants, according to NEI. Exelon's power plants topped the survey, maintaining an average 93.9 percent capacity -- the sixth year in a row it has exceeded 93 percent. Progress Energy and PPL Corp. topped their previous records of generation, NEI said. Ten of the 104 U.S. nuclear reactors also received "uprates" from the Nuclear Regulatory Commission last year, for a total of 726 megawatts of increased capacity. NEI says considering the capacity factors, the new reactor capacity would equal 2,000 megawatts of wind capacity -- almost a quarter of wind capacity installed last year.

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**NUCLEAR POWER: NRC going abroad to prep for U.S. reactor applications**  
**(02/13/2009)**

**Nathanial Gronewold, E&E reporter**

HOUSTON -- The Nuclear Regulatory Commission is relying heavily on foreign-government expertise to prepare for new U.S. nuclear plant construction, an NRC commissioner told an energy-industry gathering here today. The commission has dispatched inspectors to overseas sites where new power plants are being built or planned to see how foreign regulators oversee the construction of reactors that have not been built yet in the United States. "We need to learn from wherever we can, and there has been a lot more construction overseas than there has here," NRC Commissioner Peter Lyons said in an interview after he addressed the annual Cambridge Energy Research Associates conference. "So it's a good thing to learn from."

NRC inspectors have visited a project in Olkiluto, Finland, to learn construction inspection and safety control processes from Finnish officials, Lyons said. The agency has also dispatched inspectors to Taiwan and has plans to send officials to Flammanville, France, and China to monitor construction of Westinghouse AP1000 nuclear reactors.

They are also taking lessons from the few domestic activities that have taken place at the Browns Ferry Unit 1 reactor in Alabama, which restarted in 2007 after 22 years, and Watts Bar Unit 2 in Tennessee, which was 80 percent complete when construction stopped in 1988 and is now on schedule to be completed in 2013.

The commission must mostly travel to learn because the United States has fallen behind in the development of its nuclear power industry. Concerns over costs, safety and waste storage have prevented new U.S. plants from starting construction here for more than 20 years.

Chairman Dale Klein told E&E at an event in Washington that all of NRC's studying will pay off. "When they're ready to turn dirt, we'll be ready," Klein said.

NRC is reviewing 17 applications to build 20 new U.S. nuclear plants. Yesterday, the agency set a review schedule for the first of those applications, a request by NRG Energy Inc. of Princeton, N.J., to build a new advanced boiler water reactor near San Antonio.

The agency told the company it could expect the full review of its application and the issuance of a construction and operation license by 2012, depending on how quickly the company responds to regulators' questions.

At a panel discussion here, NRG Energy CEO David Crane said he hoped to see the government review of his firm's application completed by 2011.

But assuming the 2012 date, Crane said his company could have a new reactor running by 2016. "I am very confident that the project will be built," he said.

Crane said the planned San Antonio reactor is modeled after a plant built on time and on budget in Japan. Lyons said his agency has been working closely with Japanese officials in light of NRG's application.

"I've visited the sites in Japan," Lyons said. "They are very impressive reactors, and the Japanese record on construction is phenomenal. If we can duplicate that in this country, it would be fabulous."

The U.S. nuclear industry has also deteriorated to such an extent that most components for new power plants would have to be imported. So NRC inspectors have been visiting some foreign equipment suppliers to review their quality control. Inspectors have visited Japan Steel Works and Dusan Industrial Co. in South Korea.

*Reporter Katherine Ling contributed from Washington.*

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## **NUCLEAR SAFETY: NRC requires new plants to withstand plane crashes (02/17/2009)**

The Nuclear Regulatory Commission today voted to require new nuclear power plants to be able to withstand the impact from a commercial jetliner.

The commission's approval of the regulation comes after more than two years of deliberations over the potential threat of a large aircraft crashing into a nuclear facility, which gained attention after the Sept. 11, 2001, terrorist attacks.

The rule, approved today in a 4-0 vote, requires that new reactors be

designed to ensure that the reactor containment would remain intact, cooling systems would continue to operate and spent fuel pools would be protected if an aircraft crashed into the plant.

The regulation will be incorporated into the certification of three new reactor designs that are currently before the commission. While no new reactor has been built for years, NRC has received 17 applications for 26 reactors, with additional ones expected in the coming months. The new regulation does not apply to the 104 currently operating commercial reactors (H. Josef Hebert, [Associated Press](#), Feb. 17). -- KJH

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Power Reactor	Event Number: 44824
Facility: FERMI Region: 3 State: MI Unit: [2] [ ] [ ] RX Type: [2] GE-4 NRC Notified By: JIM KONRAD HQ OPS Officer: HOWIE CROUCH	Notification Date: 02/02/2009 Notification Time: 16:21 [ET] Event Date: 02/02/2009 Event Time: 14:00 [EST] Last Update Date: 02/02/2009
Emergency Class: NON EMERGENCY 10 CFR Section: 50.72(b)(3)(xiii) - LOSS COMM/ASMT/RESPONSE	Person (Organization): MARK RING (R3)

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

**Event Text**

<p>TECHNICAL SUPPORT CENTER NON-FUNCTIONAL</p> <p>"On February 2, 2009, at 1400, the Technical Support Center (TSC) heating, ventilation, and air conditioning system was discovered to be nonfunctional. Initial investigation revealed an electrical fault in the supply fan motor. Fermi is making this notification in accordance with 10CFR 50.72(b)(3)(xiii). In the event that TSC activation is necessary, the Emergency Offsite Facility (EOF) will be used. Activation and use of the EOF as a backup facility for the TSC is included in Fermi's Radiological Emergency Response Preparedness Plan, and drills have been held performing both the TSC and EOF functions from the EOF. Fermi will notify the NRC upon completion of corrective maintenance."</p> <p>The licensee has notified the NRC Resident Inspector.</p> <p>* * * UPDATE FROM KONRAD TO CROUCH @1609 EST ON 02/04/09 * * *</p> <p>"Corrective maintenance activities on the TSC HVAC system are complete and the TSC is now available for use."</p> <p>The licensee has notified the NRC Resident Inspector. Notified R3DO (Ring).</p>
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General Information or Other	Event Number: 44829
Rep Org: OHIO BUREAU OF RADIATION PROTECTION Licensee: TOLEDO EDISON COMPANY Region: 3 City: OREGON State: OH County: License #: 31201490021 Agreement: Y Docket: NRC Notified By: STEPHEN JAMES HQ OPS Officer: DONALD NORWOOD	Notification Date: 02/05/2009 Notification Time: 09:26 [ET] Event Date: 02/01/2009 Event Time: [EST] Last Update Date: 02/05/2009
Emergency Class: NON EMERGENCY 10 CFR Section: AGREEMENT STATE	Person (Organization): MARK RING (R3) ANGELA MCINTOSH (FSME)

**Event Text**

AGREEMENT STATE REPORT - STUCK SHUTTER ON FIXED GAUGE DEVICE
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The following report was received from the State via E-mail:

"Licensee reported a stuck shutter on a fixed gauge, which was discovered during the leak test and shutter check maintenance activity. Licensee stated that shutter had been difficult to move on past checks, but had neglected to have unit serviced. Licensee has contacted service provider to repair shutter mechanism. Device normally operates in continuous mode, so no additional actions are required at this time.

"Ohio will leave this report open pending receipt of final written report from licensee, due in 30 days.

"Note: Licensee stated that they were making this report as a result of awareness of requirements found in Ohio Information Notice 2008-02 regarding fixed gauge stuck shutters and reporting requirements."

This was an Ohmart Corporation model number SH-1 fixed gauge device. There is 0.005 Ci Cs-137 in this device.

The Ohio State reference number for this report is OH 2009-003.

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Power Reactor	Event Number: 44843
Facility: PERRY Region: 3 State: OH Unit: [1] [ ] [ ] RX Type: [1] GE-6 NRC Notified By: DAN STANLEY HQ OPS Officer: DONALD NORWOOD	Notification Date: 02/10/2009 Notification Time: 09:45 [ET] Event Date: 02/10/2009 Event Time: 08:10 [EST] Last Update Date: 02/10/2009
Emergency Class: NON EMERGENCY 10 CFR Section: 50.72(b)(3)(xiii) - LOSS COMM/ASMT/RESPONSE	Person (Organization): SONIA BURGESS (R3)

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**

PLANT COMPUTER OOS FOR SCHEDULED MAINTENANCE TAKING ERDS OOS

"The Perry Nuclear Power Plant took the Plant Computer out of service for scheduled maintenance which took ERDS out of service. From 0810 hours EST on February 10, 2009 for approximately 6 hours, personnel will be performing maintenance activities on the Plant Computer. During this planned maintenance, the Safety Parameter Display System (SPDS) and the automatic mode calculation of the Computer Aided Dose Assessment Program (CADAP) will be unavailable.

"In the event of an emergency, plant parameter data will be orally transmitted 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 CADAP and, if required, by manual calculation. 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 during the period of unavailability.

"This event is being reported in accordance with 10CFR50.72(b)(3)(xiii), as a condition that results in a major loss of offsite communication capability. A follow-up notification will be made when the maintenance activities are completed and the equipment is restored. The [NRC] Resident Inspector has been notified."

\* \* \* UPDATE AT 1250 EST ON 2/10/09 FROM STANLEY TO HUFFMAN \* \* \*

At 1240 EST the licensee returned the plant computer to service. ERDS, CADAP, and SPDS have been restored to operable status. The licensee has notified the NRC Resident Inspector.

R3DO (Burgess) has been informed.

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Power Reactor	Event Number: 44881
Facility: PERRY Region: 3 State: OH Unit: [1] [ ] [ ] RX Type: [1] GE-6 NRC Notified By: KEN RUSSELL	Notification Date: 02/27/2009 Notification Time: 04:37 [ET] Event Date: 02/27/2009 Event Time: 05:00 [EST] Last Update Date: 02/27/2009

HQ OPS Officer: STEVE SANDIN	
Emergency Class: NON EMERGENCY 10 CFR Section: 50.72(b)(3)(xiii) - LOSS COMM/ASMT/RESPONSE	Person (Organization): HIRONORI PETERSON (R3)

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

**Event Text**

EMERGENCY RESPONSE DATA SYSTEM (ERDS) OUT OF SERVICE

"The Perry Nuclear Power Plant will be taking the Plant Computer out of service for scheduled maintenance which will take ERDS out of service. From 0500 hours EST on February 27, 2009 for approximately 15 hours, personnel will be performing inspection and cleaning activities on the Plant Computer power center panel. During the planned maintenance, the Safety Parameter Display System (SPDS) and the automatic mode calculation of the Computer Aided Dose Assessment Program (CADAP) will be unavailable.

"In the event of an emergency, plant parameter data will be orally transmitted to the facilities through the Status Board Ring Down circuit with back-up by the Private Branch Exchange, the 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 CADAP and, if required, by manual calculation. 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 during the period of unavailability.

"This event is being reported in accordance with 10 CFR 50.72(b)(3)(xiii), as a condition that results in a major loss of offsite communications capability. A follow-up notification will be made when the maintenance activities are completed and the equipment is restored.

"The NRC Resident Inspector has been notified."