

To: Jim Mehl, ERU Supervisor  
From: Zack Clayton, Rad Coord  
Subject: December Monthly Report  
Date: January 3, 2010

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Beans:

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

Web Page Hits: There were 9 page views for December

Coming Attractions:

1/5 WG  
1/10 URSB  
1/27 NEPAC

Facility Updates:

**Davis Besse Nuclear Power Station**

On Dec. 1 during a routine walk-down of the owner's controlled beach and marsh area, two exposed unexploded artillery shells were discovered on the beach. The shells appeared to have originated from Camp Perry. Wright Patterson AFB sent a special unit to dispose of the shells.

Lab results from the November ground water monitoring wells was received. The results for November and October are listed:

Well	Nov.	Oct.
105A	1601 pCi/l	1945 pCi/l
30S	1318 pCi/l	1355 pCi/l
31S	814 pCi/l	1410 pCi/l
32S	755 pCi/l	1147 pCi/l
34S	1166 pCi/l	1660 pCi/l
37S	1387 pCi/l	1290 pCi/l

The only well that showed an increase in tritium levels was 37S (shallow). The plant will continue monthly sampling until the end of the year and then will revert to twice a year--

once in the spring and once in the fall. The Problem Solving Team has still not determined what caused the spike in June to over 2000 picocuries/liter with one well over 4000 picocuries/liter. Subsequent sampling results have indicated an overall drop in levels of tritium since June. The plant will conduct a hydrology review of groundwater movement on site.

The December ground water monitoring results for tritium were received on Dec. 21. All six of the wells sampled are below the 2000 pCi/L reporting limit. All six wells showed a decline in tritium levels from the November sampling results shown above.

### **Perry Nuclear Power Plant**

Perry operated at full power for the month of December.

### **Beaver Valley Power Station**

#### **Beaver Valley Unit I**

Beaver Valley Unit I operated at full power for December.

#### **Beaver Valley Unit II**

Beaver Valley Unit II operated at full power for December.

### **Fermi II**

Fermi started December in a refueling outage and began increasing power on Dec 3. they ended December at 75% power.

Fermi reported an NPDES excursion on December 27 from water treatment traveling screen backwash as a result of fish intrusion in the intake. See Event No. 46513.

On December 28, an abnormal control room position indication was observed on the HPCI Minimum Flow Valve. The valve was manually closed and Fermi entered a 14 day LCO, based on loss of a single train safety system. RCIC was and has remained operable. See event 46515.

### **Portsmouth Gaseous Diffusion Plant**

There were no reports for Portsmouth in.

**Activity:**

- 12/1 Working Group at OEMA. Plant and agency updates. Discussion of needs and concerns for the new Dose Assessment room layout. Staff reports on recent and upcoming regional and national meetings. Agency training updates.
- 12/1 After Action meeting to address outstanding issues on the after action matrix. Several items were resolved and closed.

**Office Issues:**

ARCVIEW is being considered for the EOC computers so our water supply maps can be used and accessed from the State EOC. We need to be sure appropriate layers are ported to OEMA for our use. This would include water supply system maps, surface intake points, sewer district maps and landfill and disposal sites for IZRRAG consideration and coordination with ODH. Alternately, EOC staff need to have 24 hour access to current EPA map layers from the EOC.

The After Action group is also addressing the issue of PPE for sampling teams. We need to discuss what our strategy and policy is or we may get it assigned.

The large drop in page views is in part due to an incorrect link from the URSB web page. The link to OEPA Monthly Reports is old or a placeholder. I will address this at the January monthly meeting.

**NRC Reports and Statistics:**

December operating power levels

Date	BV1	BV2	DB	Fermi2	Perry	
1	100	100	100	0	100	
3	100	100	100	1	100	Fermi exiting refueling outage
6	100	100	100	60	100	
13	100	100	100	60	100	
20	100	100	100	75	100	
27	100	100	100	75	100	
31	100	100	100	75	100	

**Information Notices**

The 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/2010/>.

To access these documents use the ADAMS Accession number listed with the title.

This is in the format of : ML #####

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IR 050-00016/10-13(DNMS) - Enrico Fermi Unit 1

ADAMS ML103350184

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Notice of Forthcoming Teleconference Meeting with FirstEnergy Nuclear Operating Company (ME1079)

ADAMS Accession: ML103340496

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Davis-Besse Nuclear Power Station, Unit 1 - Environmental Assessment and Finding of No Significant Impact –

ADAMS Accession no. ML102950354

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Information Notice 2010-26, Submerged Electrical Cables, dated December 2, 2010 (ML102800456)

\*\*\*\*\*

Davis-Besse: Request for List of Protected Species Within the Area Under Evaluation for the Davis-Besse Nuclear Power Station License Renewal Application Review

ADAMS Accession No. ML102980692

\*\*\*\*\*

Fermi 2 – Correction Letter for Amendment to Revise Degraded Voltage Function to Reflect Modification

ADAMS Accession Number: ML103120640

\*\*\*\*\*

Davis-Besse: Davis-Besse Nuclear Power Station, Unit No. 1, License Renewal Application Review.

ADAMS Accession No. ML102980687

\*\*\*\*\*

Perry Nuclear Power Plant, Unit No. 1 - Request for withholding information from public disclosure –

ADAMS Accession no. ML103400182

\*\*\*\*\*

Fermi 2 – Environmental Assessment and Finding of No Significant Impact

ADAMS Accession Number: ML103260467

\*\*\*\*\*

Davis-Besse Nuclear Power Station, Unit 1 - Exemption from the requirements of 10 CFR Part 50.61 and 10 CFR Part 50, Appendix G –

ADAMS Accession no. ML103060208

\*\*\*\*\*

Beaver Valley Power Station, Unit No. 2, RAI Regarding 2009 Steam Generator Tube Inspection Results (ME3998)

ADAMS Accession: ML103500490

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FERMI: NRC INSPECTION REPORT 050-00016/10/10(DNMS) - ENRICO FERMI UNIT 1

ADAMS Accession No. ML103550406

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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  
Request for the use of delta protection mururoa blu single-use respiratory protection  
suits –  
ADAMS Accession no. ML103420138

\*\*\*\*\*

Fermi 2 Exemption From the Requirement of 10 CFR Part 50, Appendix E, Section  
IV.F.2.b (Tac No. ME4459)  
ADAMS Accession no. ML103430395

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Information Notice 2010-27, Ventilation System Preventive Maintenance And Design  
Issues, dated December 16, 2010  
ADAMS Accession no. (ML102450114)

\*\*\*\*\*

DAVIS-BESSE 2010-504 DRS RE: 95001 - Closing of White finding.  
ADAMS ACCESSION# ML103620309

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Davis-Beese: Schedule for the Conduct of Review of the Davis-Beese Nuclear Power  
Station, Unit 1, License Renewal Application  
ADAMS Accession No. ML103430580

\*\*\*\*\*

Davis-Besse Nuclear Power Station, Unit No. 1 - Audit of the licensee's management of  
regulatory commitments –  
ADAMS Accession no. ML103620473

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BEAVER VALLEY POWER STATION, UNIT 2 PUBLIC CONFERENCE CALL  
MEETING SUMMARY REGARDING SPENT FUEL POOL RERACK LAR DRAFT RAI  
RESPONSES DISCUSSION (ME1079)  
ADAMS Accession: ML103560661

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Perry Nuclear Power Plant Problem Identification and Resolution Inspection Report  
05000440/2010007 – ML103640065

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<http://www.toledoblade.com/article/20101204/NEWS16/101209877>

Article published December 4, 2010

### **Radioactive water overflows Fermi 2**

DTE Energy says there's no danger

**By TOM HENRY**

**BLADE STAFF WRITER**

NEWPORT, Mich. — Hours before DTE Energy's Fermi 2 nuclear plant resumed  
operation Friday morning, about 100,000 gallons of radioactive cooling water overflowed  
a holding tank and stood about an inch high in portions of the plant's turbine building

and its radioactive waste building, according to the U.S. Nuclear Regulatory Commission.

The mishap, discovered Wednesday afternoon, contaminated shoes and outer clothing of about a half-dozen workers.

“Low-level contamination was limited to some of the workers’ shoes and outer clothing during the event. The inspectors are reviewing the licensee’s follow-up surveys,” an NRC online report said.

Up to 100 gallons flowed through a bathroom drain into a Monroe County sewer line, causing some of the sewage near the plant to have trace amounts of radiation, DTE Energy spokesman Guy Cerullo said.

“We’ve determined a very small amount reached the Monroe County sewage system,” he said. Sewage plants process millions of gallons of water each day.

Though the sewage-laden plume was well below NRC levels for releases and so small that DTE needed laboratory tools to confirm its existence, NRC spokesman Viktoria Mitlyng said nuclear plants — as a matter of federal policy — must strive to contain all radioactive particles to its site.

DTE, through labwork, detected a release of .0007 millirem a few yards offsite. The concentration dropped to nondetectable levels long before reaching populated areas, Mr. Cerullo said. “As it goes toward town, it gets diluted,” Ms. Mitlyng said.

Both Mr. Cerullo and Ms. Mitlyng said there was no danger to plant employees or the public. They also said there was no problem with safety systems.

The average American who lives at sea level is exposed to 300 millirems of radiation a year; in higher-altitude cities, such as Denver, the average is about 400 millirems a year. NASA astronauts get as many as 25,000 millirems a year, according to the Massachusetts Institute of Technology.

The overflow filled a ventilation line, spilling into portions of the plant’s turbine building and radwaste building.

The problem was attributed to a valve that got stuck open when it should have closed.

The valves in question are in a part of the plant where silt and particles are washed off a large condenser system. The tank that overflowed is only supposed to be holding runoff water from the cleaning operation, Ms. Mitlyng said. “It’s not even a reportable event,” she said.

Fermi 2 is in northern Monroe County, about 30 miles north of Toledo and along the western Lake Erie shoreline. It had been down for refueling and maintenance since Oct. 24. Nuclear plants are refueled every 18 to 24 months.

The reactor is ascending in power and should synchronize to the regional electrical grid sometime this weekend. Nuclear reactors are typically operating at 20 or 25 percent capacity when that happens.

DTE predicted the plant would be operating at full capacity within a few days but would not be more specific.

Contact Tom Henry at:

thenry@theblade.com

or 419-724-6079.

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<http://www.toledoblade.com/article/20101213/NEWS16/101219827>

Article published December 13, 2010

## **Davis-Besse comments sought**

Activists to collect statements on nuclear plant's re-licensing plan

**By TOM HENRY**

**BLADE STAFF WRITER**

Some activist groups that believe the public was underrepresented at the recent Davis-Besse re-licensing hearings have scheduled what Joe DeMare of Rossford describes as a "people's hearing" at St. Mark's Episcopal Church in Toledo's Old West End. From noon to 3 pm Saturday at the church at 2272 Collingwood Blvd., residents can step up to a microphone and air their views about the plant into a video camera. All discs or tapes containing the recorded statements will be delivered to the Nuclear Regulatory Commission prior to the Dec. 27 comment deadline, Mr. DeMare said.

The format will be similar to one the NRC used at Camp Perry, the Ohio National Guard base west of Port Clinton, when the agency hosted a pair of sessions called environmental scoping meetings on Nov. 4. Those meetings are ones in which the public was invited to say what environmental risks might be posed to the western Lake Erie region by another 20 years of operation by Davis-Besse. The only difference is NRC staffers won't be there in person to hear comments as they're spoken.

Scott Burnell, spokesman for the NRC's headquarters in the Washington suburb of Rockville, Md., said NRC staffers will view the recorded proceedings if the discs or tapes are submitted in time. Nearly all the comments the NRC and other government agencies get outside of official proceedings are written statements. He said he is not aware of citizens ever submitting such a video as comments for the review of a re-licensing application.

"We all feel that if any plant should be shut down and have its license extension refused, it's Davis-Besse," said Mr. DeMare, a 48-year-old machinist and member of the Wood County Green Party.

The Green Party of Ohio is hosting the meeting with help from the Ohio Sierra Club, Beyond Nuclear, and Coalition for a Nuclear-Free Great Lakes — groups which for years have questioned the need for nuclear power. Organizers said, though, they welcome a divergent point of view and will not discourage those with pronuclear views from speaking.

"For me, more than anything, is to let the NRC know that we care," said Green Party of Ohio co-chairman Anita Rios, who lives in Toledo.

Kevin Kamps of Beyond Nuclear, a Washington-based opponent of nuclear power, said he plans to have his voice heard at the Toledo meeting even though he has "every expectation the NRC will rubber-stamp this."

The agency has not yet rejected an application for a 20-year license extension.

At the Nov. 4 meetings, little dissent was heard. The meetings were held on the Thursday after the 2010 election, during the afternoon and the evening.

Some people have questioned if the timing and location affected the turnout.

The NRC believes it did enough to get the word out.

"There is only so much we can do to publicize an event," Mr. Burnell said. "We can't drive around to every neighborhood and ask them what they think."

During the afternoon session, Davis-Besse's owner-operator — Akron-based

FirstEnergy Corp. — had a succession of utility executives, plant employees, Ottawa County officials, spokesmen from the United Way, the American Red Cross, an area soup kitchen, labor unions, and even one of the region's top birding organizations speak up on behalf of the plant.

Virtually none of them, though, spoke to the environmental ramifications of Davis-Besse's continued operation, the purpose of the meeting.

Nearly all comments were about the plant's jobs, their economic impact, the tax revenue the plant generates, and the millions of dollars FirstEnergy has donated to worthy causes.

The only dissent from the afternoon meeting was a tersely worded letter written by U.S. Rep. Dennis Kucinich (D., Cleveland), a longtime FirstEnergy critic. The evening session, according to Mr. DeMare, drew about three dozen people. Seven people favored the plant's continued operation and two opposed it.

Mr. Kucinich referred to the near-rupture of Davis-Besse's original reactor head in his letter, saying it put northern Ohio's public safety at risk. After the problem was identified, authorities discovered FirstEnergy and some of its employees had withheld crucial information about the plant's dangerous operating condition from the government in the fall of 2001.

Davis-Besse, which is along Lake Erie and 30 miles east of Toledo, could have had radioactive steam form inside containment if that reactor head had burst. FirstEnergy was fined a record \$33.5 million for its role in the cover-up.

U.S. Rep. Marcy Kaptur (D., Toledo), whose district includes Ottawa County, called for the closing of Davis-Besse in 2002. In an interview on the day of those meetings, she implored the NRC and FirstEnergy to continually live up to their "full obligations to safe operations."

Contact Tom Henry at: [thenry@theblade.com](mailto:thenry@theblade.com) or 419-724-6079

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## ***NUCLEAR WASTE: Court dismisses challenge to DOE utility fees (12/13/2010)***

### **Lawrence Hurley, E&E reporter**

A federal appeals court today dismissed a legal challenge to the fees collected by the Department of Energy to pay for nuclear fuel waste management.

The National Association of Regulatory Utility Commissioners (NARUC) had sought review of the fees in the U.S. Circuit Court of Appeals for the District of Columbia (*Greenwire*, April 5).

The group had argued that the one-tenth-cent-per-kilowatt-hour fee paid by customers of nuclear-powered electricity should be suspended because the Obama administration was planning a commission to consider alternative waste disposal options in light of its proposal to abandon the waste repository in Yucca Mountain, Nev.

The Nuclear Waste Fund is estimated to be worth about \$25 billion on paper.

The appeals court initially scheduled oral arguments in the case for earlier this month but later canceled the arguments. Today, it dismissed the challenge altogether.

The brief order said NARUC's arguments "do not warrant a published opinion," as DOE has acted in accordance with the Nuclear Waste Policy Act.

However, the court order stated that NARUC might be able to reassert its claim if it challenges the government's most recently adopted fee assessment.

"While we appreciate the court's suggestion that we consider appealing the recent Department of Energy fee assessment, we still are disappointed in this procedural decision," said NARUC President Tony Clark in a statement.

"This means that for the time being, consumers will continue picking up the tab for the federal government's inability to implement a long-term nuclear-waste strategy," he said.

*Reporter Katherine Ling contributed.*

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CillicothGazette.com  
**Nuclear power should be  
part of energy policy  
December 17, 2010**

Coal is one of the United States' most important, reliable energy resources. We continue to wonder why President Barack Obama and others in government fail to recognize the value of the industry.

We agree, however, that energy diversification is prudent, too. That is why the Energy Department has recommended re-evaluation of federal policy that now discourages construction of nuclear power plants.

A first step in that move should be establishing a national nuclear waste repository. Without it, nuclear waste will remain a national security and environmental concern.

But there are those in government -- led by Senate Majority Leader Harry Reid, D-Nev. -- who will not allow that. Plans for a repository at Yucca Mountain, Nev., have been blocked by Reid and company.

If Obama is serious about a rational energy policy, he will put pressure on Reid to reverse course. The Yucca Mountain plan appears to be a good one -- and should be pursued. A nuclear waste repository is needed now and might be even more important in the future.

-- *The Journal, Martinsburg, W. Va.*

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**Federal Energy Regulatory Commission approves FirstEnergy merger with Allegheny Energy**

By SCOTT SUTTELL

**1:51 pm, December 16, 2010**

FirstEnergy Corp. (NYSE: FE) and Allegheny Energy Inc. (NYSE: AYE) jointly announced they have received approval from the Federal Energy Regulatory Commission for their proposed merger.

"This as an important milestone in the completion of our merger, and we are pleased to have the support of FERC," said Anthony J. Alexander, president and CEO of Akron-based FirstEnergy, in a statement.

FirstEnergy and Greensburg, Pa.-based Allegheny Energy filed their merger application with FERC last May.

The merger is expected to close in the first half of 2011, subject to customary closing conditions, including regulatory approvals.

FirstEnergy and Allegheny Energy said they have received merger approval from the Virginia State Corporation Commission, and have applications pending with the Pennsylvania Public Utility Commission, the West Virginia Public Service Commission and the Maryland Public Service Commission.

Shareholders of both companies also have approved proposals related to the proposed merger.

FirstEnergy last February agreed to buy Allegheny in an \$8.5 billion deal that would create one of the nation's largest electric companies. The combined company will be based in Akron.

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Crain's Cleveland Business Page 1 of 1

<http://www.crainscleveland.com/apps/pbcs.dll/article?AID=/20101216/FREE/101219867&templ...> 12/17/2010

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Back to: <http://www.toledoblade.com/article/20101219/NEWS16/12180403>

Article published December 19, 2010

**Davis-Besse licensing foes see need to gather now**

40 speak at 'People's Hearing' to take videotaped testimony

**By TOM HENRY**

**BLADE STAFF WRITER**

At first, it wasn't clear just how many people would actually show up in Toledo's Old West End Saturday for

what was billed as the "People's Hearing" on FirstEnergy Corp.'s plan to extend the life of its Davis-Besse

nuclear plant in Ottawa County by another 20 years.

"Certainly, we don't have enough people in this room," one of the event co-organizers, Anita Rios of Toledo,

lamented just after the noon starting time.

But soon, as a succession of speakers went up to the microphone at St. Mark's Episcopal Church, an eclectic

group of about 40 people settled in -- not a huge turnout, but one that pleased

organizers for a variety of reasons, not the least of which is that it's hard getting people to give up valuable time on a cold Saturday

afternoon in late December to hash out the pros and cons of nuclear power while most are making plans to be with families during the holidays.

That, coupled with the fact that Davis-Besse's license doesn't expire until April, 2017, and the fact the Nuclear

Regulatory Commission has not yet turned down a single request for a license extension. FirstEnergy Corp., the plant's owner-operator, is seeking an extension through April, 2037.

"We, the people, will need to challenge not just FirstEnergy but also the NRC," Ms. Rios, co-chairman of the Green Party of Ohio, said.

The so-called "People's Hearing" was organized in response to a pair of officially sanctioned NRC meetings the agency held on Nov. 4 at Camp Perry, the Ohio National Guard base west of Port Clinton.

Activists from the Green Party, the Michigan and Ohio chapters of the Sierra Club, the Monroe-based Coalition for Nuclear Free Great Lakes, and Beyond Nuclear, a national group in Washington that opposes nuclear power, felt the affected public was underrepresented at the NRC meetings, in part because they were held two days after the election and at a site far removed from metropolitan areas.

Though Saturday's event almost could have been mistaken for a rally, participants said it is important for the

NRC to get opinions beyond Ottawa County because residents from southeastern Michigan to Cleveland live within the same 50-mile radius which would take the brunt of any radioactive fallout should an accident occur.

Davis-Besse is Ottawa County's No. 1 employer and one of the greatest contributors to its tax base.

The two earlier sessions, which the NRC called environmental scoping meetings, drew about the same number of people as Saturday's event -- yet almost nothing was said about the environment at Camp Perry. Nearly everyone who attended those meetings worked for FirstEnergy or benefited from it financially.

Page 2 of 2

Not so Saturday. Impassioned pleas were made on behalf of Lake Erie and public health at large. The comments were digitally recorded, and are being submitted to the NRC before its Dec. 27 cutoff date for public comment.

Scott Burnell, spokesman for the NRC's headquarters in the Washington suburb of Rockville, Md., has said

NRC staffers will view Saturday's recorded proceedings if the discs are submitted in time. Nearly all the comments the NRC and other government agencies get outside of official proceedings are written statements.

He said he is not aware of citizens ever submitting such a video as comments for the review of a relicensing application.

Those who spoke at Saturday's "People's Hearing" included Al Compaan, who holds the title of distinguished professor of physics emeritus from the University of Toledo. He had been chairman of UT's physics department until his recent retirement, and has been lauded by the state of Ohio for his role in developing UT's solar energy program. He also has provided expert testimony to the Ohio General Assembly. Mr. Compaan said he sees no reason why any nuclear power plant should get a license extension until America opens a federal repository to store all of the nation's high-level radioactive waste, the spent fuel from nuclear reactors.

He said the NRC should turn down FirstEnergy because of Davis-Besse's spotty record of compliance, which includes a record \$33.5 million in fines for withholding information from the government and accusations from the U.S. Department of Justice of one of the largest cover-ups in U.S. nuclear history. The utility has said it has changed its ways since those fines and accusations were leveled against it earlier this decade.

Mr. Compaan said the utility would do better financially by emphasizing conservation and investing more heavily in renewable energy. He said it should consider investing in Great Lakes wind power, as well as solar.

Other than Toledo, area residents who spoke at Saturday's "People's Hearing" came from southeastern

Michigan, Bowling Green, and Cleveland.

Kevin Kamps of Beyond Nuclear said he drove that morning from Washington. He and the dozen or so other speakers included Mike Leonardi, a former Toledo activist now living in Italy, who said he is temporarily in the United States visiting with his wife.

One speaker, Phyllis Oster, said she and her late husband, Irwin Oster, a former Bowling Green State University geneticist, were among a small minority of people who opposed the plant's construction during its original licensing hearings before the Atomic Energy Commission, the NRC's predecessor, during the 1960s and 1970s.

"I didn't expect to ever be involved in a re-licensing hearing for that plant," said Mrs.

Oster, 80, of Bowling Green, who worked in BGSU's genetics lab until she retired in 1996. She said she and her husband, who died in 1995, took heat from the BGSU administration for opposing the plant back then. Ralph Semrock, an associate professor of computer-aided design at Owens Community College, lives 12 miles from the plant with his wife, Leah, in an Earth-bermed house they have built themselves. They have installed solar panels, a wind turbine, and other devices in hopes of someday becoming energy selfsufficient. He said he has been motivated by problems at Davis-Besse. Contact Tom Henry at: [thenry@theblade.com](mailto:thenry@theblade.com) or 419-724-6079.

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General Information or Other	Event Number: 46461
Rep Org: ULTRA ELECTRONICS Licensee: ULTRA ELECTRONICS Region: 4 City: ROUND ROCK State: TX County: WILLIAMSON License #: Agreement: Y Docket: NRC Notified By: MARK MCCRAY HQ OPS Officer: JOHN SHOEMAKER	Notification Date: 12/07/2010 Notification Time: 09:58 [ET] Event Date: 12/06/2010 Event Time: [CST] Last Update Date: 12/07/2010
Emergency Class: NON EMERGENCY 10 CFR Section: 21.21 - UNSPECIFIED PARAGRAPH	Person (Organization): CHRISTOPHER CAHILL (R1DO) SCOTT SHAEFFER (R2DO) ROBERT DALEY (R3DO) MICHAEL HAY (R4DO) NRR (EMAI) NRO (EMAI)

### Event Text

**FAIL SAFE FUNCTION OF THE N7000 SERIES TEMPERATURE TRANSMITTER DOES NOT OPERATE CORRECTLY UNDER CERTAIN CONDITIONS**

"The functional issue is limited to N7000 transmitters where the field selectable jumper is set for downscale indication upon loss of input (open circuit, over range RTD, or short circuit). The transmitter may indicate a mid-range output upon open circuit or over range RTD input instead of going downscale (4 mA) as intended. Short circuit detection operates correctly in all cases.

"This issue does not affect temperature transmitters during normal operating conditions, only the downscale input sensor failure indication function. N7000

transmitters that have been set for upscale sensor failure indication are not affected; however, this notification is applicable to all N7000 customers because the sensor failure indication is field selectable."

The following sites are affected: Oconee, Calvert Cliffs, **Perry**, North Anna, Surry, Framatome ANP, Kewaunee, Diablo Canyon, and Hope Creek.

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General Information or Other	Event Number: 46230
Rep Org: GE HITACHI NUCLEAR ENERGY Licensee: GE HITACHI NUCLEAR ENERGY Region: 1 City: WILMINGTON State: NC County: License #: Agreement: Y Docket: NRC Notified By: DALE E. PORTER HQ OPS Officer: ERIC SIMPSON	Notification Date: 09/03/2010 Notification Time: 15:23 [ET] Event Date: 09/03/2010 Event Time: [EDT] Last Update Date: 12/15/2010
Emergency Class: NON EMERGENCY 10 CFR Section: 21.21 - UNSPECIFIED PARAGRAPH	Person (Organization): RICHARD CONTE (R1DO) EUGENE GUTHRIE (R2DO) TAMARA BLOOMER (R3DO) RICK DEESE (R4DO) MIKE CHEOK (NRR) PART 21 GP via email ()

**Event Text**

PART 21 - FAILURE TO INCLUDE SEISMIC INPUT IN REACTOR CONTROL BLADE CUSTOMER GUIDANCE

The following is text of a facsimile submitted by the vendor:

"GE Hitachi Nuclear Energy (GEH) has identified that engineering evaluations that support the guidance provided in SC 08-05, Revision 1, do not address the potential impact of a seismic event on the ability to scram as it relates to the channel-control blade interference issue. Note that the seismic loads are not a consideration in the scram timing, but rather the ability to insert the control blades. In other words, the control blades must be capable of inserting during the seismic event, but not to the timing requirements of the Technical Specifications. GEH is evaluating the impact of the seismic loads between the fuel channel and the control blade associated with an Operating Basis Earthquake (OBE), and a Safe Shutdown Earthquake (SSE) on BWR/2-5 plants. The scram capability is expected to be affected due to the added seismic loads at low reactor pressures in the BWR/2-5 plants. The ability to scram for the BWR/6 plants is not adversely affected by the seismic events. Additional

evaluation is required to determine to what extent the maximum allowable friction limits specified for the BWR/2-5 plants in SC 08-05 Revision 1 is affected by the addition of seismic loads.

"GEH issues this 60-Day Interim Report in accordance with the requirements set forth in 10 CFR 21.21 (a)(2) to allow additional time to for this evaluation to be completed."

Affected US plants previously notified by vendor and recommended for surveillance program include: Nine Mile Point, Units 1 and 2; **Fermi 2**; Columbia; FitzPatrick; Pilgrim; Vermont Yankee; Grand Gulf; River Bend; Clinton; Oyster Creek; Dresden, Units 2 and 3; LaSalle, Units 1 and 2; Limerick, Units 1 and 2; Peach Bottom, Units 2 and 3; Quad Cities, Units 1 and 2; **Perry, Unit 1**; Duane Arnold; Cooper; Monticello; Brunswick, Units 1 and 2; Hope Creek; Hatch, Units 1 and 2; and Browns Ferry, Units 1 and 2.

Affected US plants previously notified by vendor and provided information include: Susquehanna, Units 1 and 2 and Browns Ferry, Unit 3.

\* \* \* UPDATE FROM DALE PORTER TO ERIC SIMPSON AT 1556 ON 09/27/2010 \*  
\* \*

The following update was received via fax:

"This letter provides a revision to the information transmitted on September 2, 2010 in MFN 10-245 concerning an evaluation being performed by GE Hitachi Nuclear Energy (GEH) regarding the failure to include seismic input in channel-control blade interference customer guidance. Two changes have been made in Revision 1:

"1) A statement was added regarding the applicability of this issue to the ABWR and ESBWR design certification documentation.

"2) The original MFN 10-245 referenced the Safety Communication SC 08-05 R1 that was transmitted to the US NRC via MFN 08-420. The references to SC 08-05 were changed to MFN 08-420 to prevent possible confusion.

"As stated herein, GEH has not concluded that this is a reportable condition in accordance with the requirements of 10CFR 21.21(d) and continued evaluation is required to determine the impact of a seismic event on the guidance contained in MFN 08-420."

Notified the R1DO (Gray), R2DO (Hopper), R3DO (Orth), R4DO (Farnholtz), NRR EO (Lee) and Part 21 Group (via email).

\* \* \* UPDATE FROM DALE PORTER TO MARK ABRAMOVITZ AT 1723 ON  
12/15/2010 \* \* \*

The following update was received via fax:

"This letter provides information concerning an on-going evaluation being performed by GE Hitachi Nuclear Energy (GEH) regarding the failure to include seismic loads in the guidance provided in MFN 08-420. As stated herein, GEH has not concluded that this is a reportable condition in accordance with the requirements of 10CFR21.21(d) and continued evaluation is required to determine the impact of a seismic event on the guidance contained in MFN 08-420.

"GEH has not completed the evaluation of the impact of the seismic loads between the fuel channel and the control blade associated with an Operating Basis Earthquake (OBE), and a Safe Shutdown Earthquake (SSE) on BWR/2-5 plants."

GEH expects the task to be completed by August 15, 2011.

Notified the R1DO (Holody), R2DO (Henson), R3DO (Kozak), R4DO (Werner), NRR EO (Evans) and Part 21 Group (via email).

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Power Reactor	Event Number: 46513
Facility: FERMI Region: 3 State: MI Unit: [2] [ ] [ ] RX Type: [2] GE-4 NRC Notified By: GREG MILLER HQ OPS Officer: JOE O'HARA	Notification Date: 12/27/2010 Notification Time: 16:18 [ET] Event Date: 12/27/2010 Event Time: 15:37 [EST] Last Update Date: 12/27/2010
Emergency Class: NON EMERGENCY 10 CFR Section: 50.72(b)(2)(xi) - OFFSITE NOTIFICATION	Person (Organization): JULIO LARA (R3DO)

Unit	SCRAM Code	RX CRIT	Initial PWR	Initial RX Mode	Current PWR	Current RX Mode
2	N	Y	75	Power Operation	75	Power Operation

**Event Text**

**OFFSITE NOTIFICATIONS - EXCEEDED DISCHARGE PERMIT**

"On December 27, 2010, at 1537, a report was made to the Michigan Department of Natural Resources and Environment for exceeding the National Pollutant Discharge Elimination System (NPDES) permit limits to outfall 011A. The limits were exceeded due to the General Service Water (GSW) traveling screens being in continuous operation and the back wash being aligned to outfall 011A which resulted in exceeding the maximum discharge limit of 1.8 million gallons per calendar day as a result of a fish intrusion event occurring at the GSW intake. The GSW traveling screens have

been in continuous operation since 2100 on December 25 and the daily discharge limit was reached at 1700 on December 26. The condition was necessary to maintain safe and reliable operations of the plant in response to the fish intrusion. The GSW traveling screens are being continuously monitored in order to limit unnecessary discharge into outfall 011A and restore full compliance with the NPDES permit as conditions improve. This report is being made in accordance with 10CFR50.72(b)(2)(xi) 'Any event or situation. Related to the health and safety of the public or onsite personnel, or protection of the environment, for which a news release is planned or notification to other government agencies has been or will be made.' "

The NRC Resident Inspector has been notified.

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Power Reactor	Event Number: 46515
Facility: FERMI Region: 3 State: MI Unit: [2] [ ] [ ] RX Type: [2] GE-4 NRC Notified By: GREG MILLER HQ OPS Officer: DONALD NORWOOD	Notification Date: 12/28/2010 Notification Time: 16:27 [ET] Event Date: 12/28/2010 Event Time: 12:20 [EST] Last Update Date: 12/28/2010
Emergency Class: NON EMERGENCY 10 CFR Section: 50.72(b)(3)(v)(D) - ACCIDENT MITIGATION	Person (Organization): JULIO LARA (R3DO)

Unit	SCRAM Code	RX CRIT	Initial PWR	Initial RX Mode	Current PWR	Current RX Mode
2	N	Y	75	Power Operation	75	Power Operation

### Event Text

#### HIGH PRESSURE COOLANT INJECTION SYSTEM INOPERABLE DUE TO INOPERABLE MINIMUM FLOW VALVE

"On December 28, 2010 at approximately 1220 hours, during surveillance testing of the High Pressure Coolant Injection (HPCI) system, abnormal control room position indication was observed on the HPCI Minimum Flow Valve, E4150F012 as the valve was stroking closed. HPCI had been removed from service for quarterly surveillance testing at 0950 hours. The unplanned inoperability condition began at 1220 hours when position indication was lost on the minimum flow valve. The valve was manually closed to comply with the action of LCO 3.6.1.3 to isolate the penetration. A 14 day LCO was entered and back dated to the time that HPCI was removed from service per LCO 3.5.1. This report is being made pursuant to 10CFR50.72(b)(3)(v)(D) as a condition that at the time of discovery could have prevented the fulfillment of a safety function needed to mitigate the consequences of an accident, based on loss of a single train safety system. RCIC was and has remained operable. The failure is

currently under investigation."

The licensee notified the NRC Resident Inspector.