

To: Jodi Billman-Kotsko, ERU Supervisor
From: Zack Clayton, Rad Coordinator
Subject: January Monthly Report
Date: February 3 , 2015

Beans

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

Web Page Views: There were 63 page views in January.

Coming Attractions

2/4 Interagency Radiological Emergency Preparedness (IREP)
3/3 Davis-Besse Offsite Agency Systems Training
3/4 IREP
3/6 FENOC Grant Negotiations
3/24 Davis-Besse HAB dry run
4/6 URSB meeting
5/5 Davis-Besse HAB evaluation

Facility updates

Davis-Besse Nuclear Power Station

Davis-Besse operated at full power for the month.

We received notification from the Davis-Besse Nuclear Power Station that analysis of a ground water sample taken from within the plant's protected area on September 29, 2014 showed a concentration of 3230 picoCuries/liter (pCi/L). This exceeds the reporting agreement of 2000 pCi/L but is below the Maximum Contaminant Level of 20,000 pCi/L tritium for drinking water. This well exceeded the reporting agreement in 2010 and tritium levels have been trending down since that time. The plant has notified the state, counties, and the Nuclear Regulatory Commission's resident inspector of the sampling results. A problem solving team has been assembled by the plant to investigate this issue and it is possible additional sampling will be conducted. There is

no indication that tritium has migrated offsite. Groundwater flow in this area is toward Lake Erie.

Perry Nuclear Power Plant

Perry operated at full power for the month.

On January 5 a An ambulance transported a worker from Perry Nuclear Power Plant to Tripoint Medical Center for injuries sustained when he slipped on ice at the plant. The individual was not contaminated. The transported worker was kept overnight for observation because he struck his head during the fall. This qualifies his injury as an OSHA reportable event. OSHA reportable events which occur at a nuclear power plant require the plant to notify the Nuclear Regulatory Commission. See Event No. 50718.

Beaver Valley Power Station

Beaver Valley Unit I

Unit I operated at full power for the month.

Beaver Valley Unit II

Unit II operated at full power for the month.

DTE

Fermi II

Fermi II operated at full power for the month.

Fermi III

Fermi III continues as a documentation evaluation.

Portsmouth Enrichment Plant

There were no reports for Centrus, but there are ADAMS documents.

Activity

- 1/12 URSB. First meeting with the three new designees. There was a discussion on the status of the working group, which will meet under the current sunshine laws on an as needed basis, to be convened at the pleasure of the Board. Non-URSB activities that would need to be conducted under normal State business are moved to a new group.
- 1/21 IREP This first meeting of the Interagency Radiological Emergency Preparedness group was to delineate the areas of activity so that URSB business is not conducted outside the sunshine law. The IREP is an ad hoc group that meets to share agency radiological activity and normal REP information and implementation. The attendees at this group can expand and contract depending on the need for information and mission of the concerned agency. It is not limited to the URSB members.
- 1/28 FRMAC Teleconference. Updates on exercises and drills, RadResponder upgrades, and general Federal partners news.
- 1/29 NEPAC. The FCC is doing a DoNotCall list with teeth for emergency/public safety numbers. The county dispatch centers have been getting a lot of SPAM calls that interfere with their normal business. For right now the best option is to get a human on-line and tell them to remove the number and why. The call centers do not coordinate with the company paying for the calls so calling that company will not work. The State and counties will start implementing Virtual Decks for PIO interaction during exercises.

Office Issues

Ongoing issues with Zen developed around January 1. System response has taken a hit. Zen is again available, but working in some programs is flakey.

The Agency issued iPad is not synching with the state mail programs or Office365. There is also an OS update notice that is denied access to install.

Statistics, NRC Reports, News, and ADAMS References

Operating Power Levels

January

Date	BV1	BV2	DB	Perry	Fermi2
1	100	100	100	100	100

5	100	100	100	100	100	
12	100	100	100	99	100	
19	100	100	100	100	100	
26	100	100	100	97	100	Perry in coast down for refueling
31	100	100	100	96	100	

Event Reports

Power Reactor	Event Number: 50718
Facility: PERRY Region: 3 State: OH Unit: [1] [] [] RX Type: [1] GE-6 NRC Notified By: JULIE SEVERINO HQ OPS Officer: VINCE KLCO	Notification Date: 01/06/2015 Notification Time: 17:18 [ET] Event Date: 01/06/2015 Event Time: 16:30 [EST] Last Update Date: 01/06/2015
Emergency Class: NON EMERGENCY 10 CFR Section: 50.72(b)(2)(xi) - OFFSITE NOTIFICATION OTHER UNSPEC REQMNT	Person (Organization): MICHAEL KUNOWSKI (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

NOTIFICATION MADE TO OFFSITE GOVERNMENT AGENCY

"In accordance with 29 CFR 1904.39(a)(2), notification was made to the Occupational Safety and Health Administration regarding the in-patient hospitalization of an individual while in the owner controlled area.

"The licensee has notified the NRC Resident Inspector."

The licensee notified the State of Ohio and local authorities

The individual employee is currently under medical treatment and is not contaminated.

News

The National Academies Press "Analysis of Cancer Risks in Populations near Nuclear Facilities: Phase 2 Pilot Planning"

<http://us4.campaign-archive1.com/?u=eaea39b6442dc4e0d08e6aa4a&id=252f40fa9a&e=0d46a530a9>

Available as a free PDF

The National Academies Press “Research on Health Effects of Low-Level Ionizing Radiation Exposure: Opportunities for the Armed Forces Radiobiology Research Institute”

<http://us4.campaign-archive1.com/?u=eaea39b6442dc4e0d08e6aa4a&id=e45147f6f0>

Available as a free PDF

The National Academies Press “The Science of Responding to a Nuclear Reactor Accident: Summary of a Symposium”

<http://us4.campaign-archive1.com/?u=eaea39b6442dc4e0d08e6aa4a&id=c3f233372c>

Available as a free PDF

The Blade

Report touts Davis-Besse’s Ohio impact

Group: Power plant adds \$1.1B to state’s economy

1/9/2015

BY TOM HENRY

BLADE STAFF WRITER

OAK HARBOR, Ohio

—

FirstEnergy Corp.’s Davis-Besse nuclear power plant has an economic impact of more than \$1 billion a year on the Ohio economy, according a study released Thursday by the nuclear industry’s chief Washington trade group.

The Nuclear Energy Institute’s study estimates Davis-Besse’s current value at \$1.1 billion statewide, including \$805 million to Ottawa County.

The plant provides 700 full-time jobs and supports an estimated 4,600 other jobs in the region, 2,500 of which are in Ottawa County, according to the study.

Richard Myers, NEI’s vice president for policy development, told reporters on a conference call that FirstEnergy Corp. asked the trade group for an update to help bolster the utility’s argument before the Public Utilities Commission of Ohio for a new, long-term rate structuring plan.

While that was the primary motivation, the NEI also wants Americans to understand the value of nuclear plants more in general as economic pressures from the fracking-led natural gas boom, and greater interest in renewable energy has made nuclear plants less affordable to some utilities.

Two nuclear facilities —Vermont Yankee and the Kewaunee power plant in Wisconsin —have been shut down for economic, not technical, reasons. The nuclear industry has said it is concerned about others, including Exelon-owned facilities in Illinois, undergoing the same fate and causing a ripple effect.

Mr. Myers said the nuclear industry wants more regulators and investors to understand the unique attributes of nuclear power being a low-carbon industry and providing energy security.

Plants can generate electricity around the clock, except for when refueling outages occur for about 30 days every 18 months. They do not emit climate-altering carbon dioxide during normal operations, but greenhouse gases are expended mining uranium and packaging it into fuel bundles and in some disposal activities.

Nuclear advocates have pointed out that is small in comparison with years of plant operations.

In 2014, Davis-Besse produced enough electricity to avoid 700 million tons of carbon dioxide that would have been produced by other energy sources, such as coal-fired power plants. That's roughly the greenhouse gas equivalent of 1.4 million automobiles, Mr. Myers said.

Nuclear accounts for nearly 20 percent of the nation's electricity, including 12 percent of Ohio's.

Jim Lash, FirstEnergy vice president for generation, said the utility's major investment in Davis-Besse, including about \$600 million to install new steam generators recently, is indicative of its commitment to Ottawa County and that plant.

However, he agreed economic pressures are becoming greater nationally for the nuclear industry.

"We have said we are committed to Davis-Besse many times. But the markets are continuing to change," Mr. Lash said.

He said FirstEnergy's proposed rate-structuring deal is intended to "establish certainty" of future cash flow.

"Nuclear plants in competitive markets are challenged," Mr. Lash said.

Ottawa County Commissioner Jim Sass reiterated the county's support for Davis-Besse, saying that it helps maintain the region's quality of life.

"It really is an important part of the economy in Ottawa County," Mr. Sass said.

Davis-Besse is 30 miles east of Toledo, along the Lake Erie shoreline. It generates 6 percent of Ohio's electricity. It is soon expected to have its operating license extended 20 years to 2037.

READ THE REPORT:

Nuclear Energy Institute's study of Davis-Besse's economic impact

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House passes radiation research bill

Sam Pearson, E&E reporter

Published: Thursday, January 8, 2015

The House easily approved a bill yesterday to expedite Department of Energy research on radiation doses.

[H.R. 35](#) would continue DOE's Low-Dose Radiation Research Program, housed within the department's Office of Science. By better understanding the effects of low levels of radiation, companies will be able to design products that use the technology without risk to consumers, lawmakers said.

The bill passed the House unanimously under suspension of the rules, a procedure typically reserved for noncontroversial legislation that requires a two-thirds majority to pass.

The measure, by Reps. Randy Hultgren (R-Ill.) and Dan Lipinski (D-Ill.), also would direct the National Academies to develop a long-term strategy to determine what level

of low-dose radiation the human body can safely absorb. DOE would then be required to craft a five-year research plan in response to the findings.

"Innovations in medicine and manufacturing have relied on low-dose radiation to conduct X-rays and make precise measurements," Hultgren said in a statement. "When considering any regulatory approach to protecting public health, it is essential we have the science and facts straight before taking any potentially burdensome regulatory actions that could hamper future innovation."

One lawmaker, though, did not get to take credit for the bill. Rep. Randy Weber (R-Texas) [tweeted](#) that he had been removed as a co-sponsor of the bill after he voted for Texas Rep. Louie Gohmert (R) for speaker of the House on Tuesday in defiance of Republican leadership. Weber called the move "retaliation."

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Petition demands tests for degraded concrete at U.S. plants

Hannah Northey, E&E reporter

Published: Tuesday, January 13, 2015

Neighbors of New Hampshire's Seabrook nuclear power plant are asking federal regulators to require extensive testing for concrete degradation at all U.S. facilities -- even though the problem has only been identified at Seabrook.

C-10, a nonprofit group representing about 5,000 people near Seabrook -- about 40 miles north of Boston -- petitioned the Nuclear Regulatory Commission last year to craft new rules to require physical testing, not just visual exams.

Filed by C-10 Executive Director Sandra Gavutis with help from the Union of Concerned Scientists, the [petition](#) is open to public comment through March 31.

"There's a discussion that [this problem] is at other plants and hasn't been brought forward. There has been some detection in nuclear plants in the United States," Gavutis said during an interview. "The main reason we did it is because we've been requesting for the past two years that they make this a regulatory requirement, but the industry has said they endorse the standard practice -- but they haven't made it a regulation."

Neil Sheehan, a spokesman for NRC's regional office in King of Prussia, Pa., said the concrete problem is unique to NextEra Energy Seabrook LLC's plant. Seabrook was built in the 1970s using aggregate from a Maine quarry that's vulnerable to internal chemical reactions and cracking, he said. The reactor has been operating since 1990.

"You get this gel that comes out and cracking on the face of the wall," Sheehan said.

"The concern is the structural integrity can be impacted by this. It's been the subject of many years of review by the NRC and NextEra." NextEra, he added, has a research project underway with the University of Texas to study the issue; results will be released later this year.

Alan Griffith, spokesman for NextEra Energy Seabrook, said the company has conducted thousands of hours of analysis and inspection and has identified no safety issues.

But the issue is also at the heart of NextEra's request for a license renewal for Seabrook. The plant's license expires March 2030, and the company applied for an extension five years ago. But the NRC first wants to know how NextEra will address the concrete problems.

"We are not prepared to issue a decision on a license renewal until they come up with a long-term plan to address concrete degradation at Seabrook," Sheehan said. "They have lots of time left."

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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/2013/>.

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

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

Part 21 and Miscellaneous

IN 2015-15, "Degraded Ability to Mitigate Flooding Events", dated January 9, 2015

ML14279A268

ANNOUNCEMENT OF 2015 GENERIC FUNDAMENTALS EXAMINATION ADMINISTRATION DATES

ML15022A551

Davis-Besse

Ltr 01/12/15 Davis-Besse Confirmation of Initial License Exam

ADAMS Accession No. ML15012A586

Ltr 2014 Davis-Besse EP Annual Closeout

ML15020A253

ANL Technical Letter Report on Crack Growth Rate Testing on Davis Besse Alloy 600 Nozzle Sections.

ML14316A032

Characterizations and Stress Corrosion Cracking Evaluations of Alloy 600 CRDM Nozzle Heats from the Davis Besse Nuclear Power Plant.

ML14316A029

Memorandum And Order LBP-15-1 Denying Intervenors' Motion to Admit Contention No 7.

ML15015A580

Perry

Perry Nuclear Power Plant, Unit No. 1 - Acceptance Review Concerning Revision to Battery Surveillance Test Frequencies (TAC NO. MF5298)(L-14-271)
ADAMS Accession No.: ML15002A326

Perry Nuclear Power Plant, Unit No.1 - Request for Additional Information Concerning Alternative Accident Source Term Design Bases (TAC NO. MF3197)(L-13-306).
ML15014A283

Ltr 2014 Perry EP Annual Closeout
ML15020A193

Public Teleconference with FirstEnergy Nuclear Operating Company Concerning Perry Alternative Source Term

Date and Time: January 28, 2015, 10:00 AM to 12:30 PM

Location: NRC One White Flint North, O8B2

11555 Rockville Pike

Rockville, MD

ML15022A029

Perry Nuclear Power Plant, Unit No. 1 - Request for Additional Information Concerning Changes to Safety Limit Minimum Critical Power Ratio During Single Loop Operation (TAC NO. MF 5007)(L-14-325)

ML15012A657

Ltr 01/21/15 Perry ISI RFI

ML15022A180

Beaver Valley

BEAVER VALLEY POWER STATION - NRC COMPONENT DESIGN BASES INSPECTION
REPORT NOS. 05000334/2014007 AND 05000412/2014007

ML15015A219

Beaver Valley Power Station, Units 1 and 2, Draft Request for Additional Information (TAC NOS. MF2942 and MF2943)

ADAMS Accession No.: ML15016A439

Beaver Valley Power Station, Unit 2 - Request for Additional Information RE: Steam Generator Inspection Reports (TAC No. MF4620)

ML15007A558

Beaver Valley Power Station, Submittal of Discharge Monitoring Report.

ML15008A028

First Energy Nuclear Operating Company (FENOC) Expedited Seismic Evaluation Process (ESEP) Reports Response to NRC Request for Information Pursuant to 10 CFR50.54(f) Regarding Recommendation.1 of the Near-Term Task Force (NTTF) Review of Insights....

ML14353A059

Portsmouth Facilities

Letter to S. Toelle re: NRC Approval of and Authorization to Operate Proposed Cyber Plans for American Centrifuge Operating, LLC.

ML15027A140

American Centrifuge Lead Cascade Facility and American Centrifuge Plant, Submittal of Changed Pages of the Integrated Safety Analysis Summary.

ML15020A555

Comment Resolution for Cyber Security Plans for the American Centrifuge Operating, LLC (Technical Assignment Control Numbers L34289 and L34297).

ML15021A303

12/17/2014 Meeting Minutes for Public Meeting with Nuclear Energy Institute and Industry on Draft Regularity Guide DG-8031 (Draft Regulatory Guide 8.34).

ML15007A385

Fermi 1

No reports

Fermi 2

FERMI 2: Summary of Telephone Conference Call Held on December 18, 2014, Between the U.S. Nuclear Regulatory Commission and DTE Electric Company Concerning Responses to Request for Additional Information Pertaining to the Environmental Review of the Environmental Review of the Fermi 2 License Renewal Application

ADAMS Accession No. ML15005A538

REQUESTS FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE FERMI 2 LICENSE RENEWAL APPLICATION – SET 17 (TAC NO. MF4222)

ADAMS ACCESSION NO.: ML14356A212

Fermi Power Plant, Unit 2, NRC Supplemental Inspection Report 05000341/2014408 and Assessment Follow-Up Letter (Cover Letter Only)

ADAMS Accession No. ML15015A739

Subject: G20110262 - Final Response to Paul Gunter and Kevin Kamps Letter re: 2.206 - Immediately Suspend the Operating License of General Electric Boiling Water Reactors Mark I Units

ADAMS Accession No.: ML14335A630

REQUESTS FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE FERMI 2
LICENSE RENEWAL APPLICATION – SET 19 (TAC NO. MF4222)

ML15015A194

Ltr 2014 Fermi EP Annual Closeout

ML15020A218

REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE FERMI 2 LICENSE
RENEWAL APPLICATION – SET 20 (TAC NO. MF4222)

ADAMS ACCESSION NO.: ML15002A046

FERMI 2014 403 CYBER SECURITY COVER LETTER ONLY

ML15016A396

DTE Response to NRC Request for Additional Information for the Review of the Fermi 2
License Renewal Application - Set 13.

ML15026A624

Response to NRC Request for Additional Information for the Review of the Fermi 2 License
Renewal Application - Severe Accident Mitigation Alternatives.

ML15009A358

Fermi, Unit 2 - Expedited Seismic Evaluation Process Report (CEUS Sites), Response to NRC
Request for Information Pursuant to 10 CFR 50.54(f) re Recommendation 2.1 of the Near-Term
Task Force Review of Insights from the Fukushima Dai-ichi Accident.

ML14315A469

Fermi, Unit 2, Expedited Seismic Equipment List, Attachment B.

ML14345A477

Fermi 3

NRC000010B - NUREG-2015, Environmental Impact Statement for the Combined License
(COL) for Enrico Fermi Unit 3, Vol. 2 (January 2013), ADAMS Accession No. ML12307A176.

ML15028A572

NRC000006C - Fermi 3 COL Application - Part 2 (FSAR), Chapter 2, Sections 2.5.2 and 2.5.3
(October 2014), ADAMS Accession Nos. ML14309A443 & ML14309A444.

ML15028A539

NRC000010D - NUREG-2105, Environmental Impact Statement for the Combined License
(COL) for Enrico Fermi Unit 3, Vol. 4 (January 2013), ADAMS Accession No. ML12347A202.

ML15028A578

NRC000001 - SECY-14-0132, Staff Statement in Support of the Uncontested Hearing for
Issuance of Combined License for the Fermi Nuclear Power Plant Unit 3 (Nov. 20, 2014),
ADAMS Accession No. ML14282A639.

ML15028A528

Several Fermi 3 FSERs, Chapters, COLAs, FSERs, and other material (various dates), incorporated by reference by ADAMS Accession Numbers.

ML15028A565

ML15028A547

ML15028A550

ML15028A567

ML15028A535

ML15028A532

ML15028A543

ML15028A554

ML15028A529

ML15028A561

ML15028A575

ML15028A569

ML15028A531

DTE000001 - Prefiled Written Testimony of Peter Smith, Dated January 14, 2015 (with Statement of Qualifications).

15014A498

NRC Staff Responses to Commission Prehearing Questions.

ML15014A507

DTE000002 - DTE Written Response to Public Commission Questions for Fermi 3 Hearing on Uncontested Issues, Dated January 14, 2015.

ML15014A496
