OnLine
FirstEnergy Nuclear Operating Company
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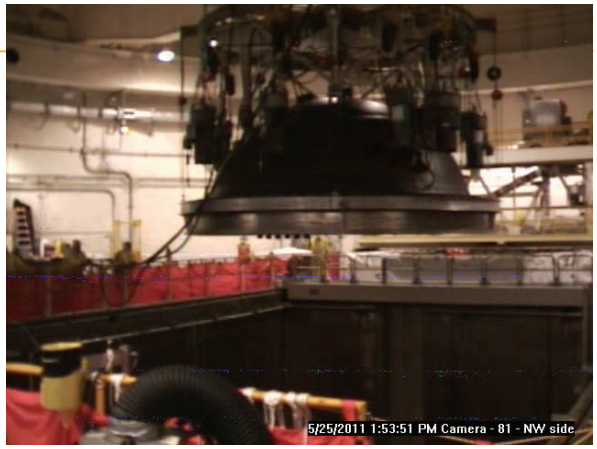
Reactor Reassembly in Progress at Perry

As Perry's 1R13 outage comes to a close, work is focused on Reactor reassembly and the completion of I&C surveillances on plant components.

Over the weekend, Division 1 Loss of Offsite Power/Loss of Coolant Accident (LOOP/LOCA) testing was successfully performed. This testing, which confirms that the plant's emergency systems are prepared to operate safely and as intended if called upon to respond to an event, has now been completed with satisfactory results on all three divisions. In addition, replacement of the Source Range Monitor "C" and "D" signal cables was completed smoothly with no errors or events.



Perry's Reactor Head is moved into place over the Reactor Vessel yesterday.

Fuel movements were completed last Friday, followed by the beginning of Reactor Pressure Vessel (RPV) reassembly. The RPV Head was set yesterday; tensioning will be completed today, followed by the plant entering Mode 4 (cold shutdown) tonight.

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D-B **Make It Happen Teams** Target Outage Improvement

Continued outage improvement involves employing lessons learned from prior outages to enhance or improve future outages. Following Davis-Besse's 16th refueling outage in 2010, the Outage Management Team conducted an extensive critique of the team's outage performance and opportunities for improvements.

Seven Make It Happen Teams evolved from this effort. All are actively engaged in developing actions aimed at improving outage performance for the mid-cycle outage, which begins on Oct. 1 for Reactor Head replacement.

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Perry Reactor Assembly

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Meanwhile, closure of the Drywell Equipment Hatch continues; the Containment Equipment Hatch will be closed Sunday. On deck for the weekend: the Reactor Pressure Vessel leak test and Control Rod scram time testing.

Also in preparation for the unit's return to service, about 20 project and section managers reviewed mode restraints, emergent issues and other concerns affecting unit start-up at Monday's first 1R13 Restart Readiness Meeting, led by Restart Readiness Project Manager **Karen Brandt** and Operations Director **Kurt Krueger**. The group discussed the key objectives to successfully complete the outage, including a strict adherence to the outage schedule, coordination between the Outage Control Center (OCC) and work groups, and improved housekeeping. The final Restart Readiness meeting will be conducted this Sunday.

In other outage developments:

- The performance of Perry's Fuel Handling Equipment (F-system) not only set a site record, but reached top decile industry levels in 1R13. According to System Engineer **John Telaroli**, critical path time lost due to F-system issues totaled just 6 hours and 7 minutes, surpassing 1R12's record of 8 hours, 42 minutes. The world class target goal for F-system performance is less than 8 hours of lost critical path time. F-system equipment includes the Fuel Handling Bridge, Refuel Bridge, Inclined Fuel Transfer System and 360˚ Platform. Enhanced pre-outage preparation activities and contingency planning, along with system upgrades made since 2005, are to credit for this solid performance.
- The In-Vessel Visual Inspection Program was completed, and according to Project Manager **Stan Gorski**, the inspection results were, overall, "excellent." The inspections were performed event-free with no safety or radiological incidents. Nearly 300 separate inspections were performed on the reactor vessel and its internal structures, including the Steam Dryer, Steam Separator, Feedwater Spargers, Core Spray, Jet Pumps and the Top Guide.

D-B Make It Happen Teams

Continued from cover page

The seven Make It Happen Teams developed include:

- Industrial Safety – lead **Laurie Holmes**
- Mode 5 to Mode 2 Testing – lead **Scott Wise**
- In processing – lead **Matt Brown**
- Testing methodology for Auxiliary Feedwater – lead **Jason Stelmaszak**
- Containment demobilization – lead **Rex Rutledge**
- Emergency Core Cooling System Room/Makeup Pump Room coordination – lead **Tom Saunders**
- Addition of Hydrogen Peroxide while Reactor Coolant Pumps are running – lead **Vince Capozziello**

"Each of the Make It Happen Teams was developed based on outage gaps identified through post-outage critique and analysis activities," said Manager of Outage Management **Gary Kendrick**. "Each team is tasked with looking at the gaps and developing actions to close and improve the gaps – ultimately improving our overall outage performance. These actions also support one of our primary FENOC focus areas – outage planning and execution."

The Make It Happen Teams use guidance from Nuclear Operating Business Practice (NOBP-OM-3002). It is intended to promote a questioning attitude and challenge the teams to think "outside-the-box" while providing a systematic approach to engage those who are directly responsible for the performance of pre-outage preparation and outage work activities. Each team also is responsible for developing a charter outlining the team's purpose and goals. The team members represent a cross-section of employees who together make up a multi-disciplined group. The team lead oversees and drives the team's activities while also ensuring progress updates are given to the outage manager and team sponsor.

Information outlining the efforts and actions of each of the Make It Happen Teams will be featured in upcoming issues of FENOC OnLine.

FOCUS Area for Improvement:

- ***Outage Planning & Execution***

Industry Peers Benchmark Beaver Valley

Last week, an 11-person team from North Anna Power Station visited Beaver Valley Power Station and performed a comprehensive benchmarking of the site's As-Low-as-Reasonably Achievable (ALARA) practices and work control functions during non-outage periods. The team also met with representatives from Operations, Work Management, Maintenance, Radiation Protection, Engineering, Training and Safety.

"North Anna has long been recognized by INPO and other sites as an industry-leading station," said ALARA Supervisor **Jeff Fontaine**. "The North Anna folks asked questions about Beaver Valley's radiological performance and specifically how the site has been able to achieve and sustain our world-class online dose results. Team BV should take pride in the fact that North Anna came to Beaver Valley to look for ways to improve their performance."

FOCUS Area for Improvement:

- ***Radiological Performance***

Jeff noted that in calendar year 2010, Unit 2 achieved an online radiological exposure (dose) of 282 mRem, which is expected to be a world-record for a pressurized water reactor (PWR). Likewise, with an online dose of 1,295 mRem, Unit 1 would be second-place. Jeff also recalled that Unit 1 achieved a new site outage dose total of 48,406 mRem during last year's 1R20 outage, moving Unit 1 further into the industry's top quartile for 18-month average Collective Radiation Exposure (CRE).

During their visit, the North Anna team members focused on the following areas: Operations training, Operations aggregate impact, leak management, operator critical plant parameter monitoring, component engineering programs, Design Engineering, Work Management/work scheduling, resource sharing, as well as plant alignment on key issues. The team also reviewed Beaver Valley's response to the INPO Significant Operating Event Report (SOER) 10-2 that relates to dose and source-term reduction initiatives. Similarly, because North Anna is viewed as a top-performing station, Beaver Valley representatives used last week's visit as an opportunity to "reverse benchmark" and gather best practices from their industry colleagues in each of these areas, but in particular Operations and Training.

In addition to Jeff, Beaver Valley host peers for last week's visit were **Greg Bonifield**, **Dave Gibson**, **Tim Green**, **Chris Hynes**, **John Kowalski**, **Steve Lieberman**, **Jeff Wilbur**, **Doyle Wilson** and **Matt Wimmel**.

North Anna Power Station is an 1,806 megawatt two-unit PWR nuclear plant located in Louisa County in central Virginia, northwest of Richmond, owned and operated by Dominion. Unit 1 began commercial operations in June 1978 and Unit 2 followed in December 1980.

Davis-Besse Receives **Safety Recognition**

The Davis-Besse team's safety performance was recognized during the 57th Annual Industrial Awards Banquet held on Thursday, May 19. Hosted by the Safety Council of Northwest Ohio – Division of Safety and Hygiene, the recognition focuses on accomplishments in the area of employee safety. Plant Safety Committee (PSC) members represented the Davis-Besse team at the event and received two awards.

Paul Perry, PSC Chairman, received the "100-percent Award" for Davis-Besse. It is given for working a whole year without a lost-time injury or accident.

The other award was the "Special Award" for accumulating 500,000 or more hours worked along with at least six months without a lost-time injury. Davis-Besse achieved this award by working 1,792,077 hours without a lost-time injury between Nov. 27, 2009, and Dec. 31, 2010.

"The safety awards presented to the Davis-Besse Plant Safety Committee are indicative of the increased safety focus the site team implemented last year," said Director of Site Operations **Brian Boles**. "Our employees'

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Davis-Besse Plant Safety Committee Chairman Paul Perry (right) accepts a safety award from a representative of the Safety Council of Northwest Ohio.

Perry **Control Point Redesign** Aids Outage Efficiency

It's not uncommon to visit Perry's Control Complex 620' Radiation Protection (RP) Control Point in 1R13 and find it empty, except for a few lonely-looking RP technicians. This is actually *GOOD* news; it means workers are busy working on outage activities rather than waiting for a radiological briefing at this former outage bottleneck.

Thanks to a redesign of the control point just prior to the start of 1R13 – coupled with better preparation of workers reporting for High Radiation Area briefs – access to Containment and Drywell through Control Complex 620' has been streamlined and is now more efficient.

"In past outages, it was not uncommon for a worker to incur a wait time of 30-45 minutes to receive a briefing before proceeding into the RCA through this control point," said **Joe Spahr**, Perry RP supervisor. "Now, the average time is seven minutes, with the longest wait times of only 10-12 minutes. In fact, we have been able to conduct more than 130 locked high radiation area briefs per shift, which equates to more than 750 workers per day who enter through this control point."

The redesigned control point incorporates a much larger briefing counter where up to five radiological briefs – versus just two in the old configuration – can be conducted simultaneously. The area also incorporates three large monitors on which radiological survey maps can be displayed. These maps, which also are available electronically to all outage workers through the portal, have aided discussions between RP technicians and radiological workers.

Better preparation of radiation workers reporting for briefings also has contributed to more efficient RCA access. According to RP Manager **Paul McNulty**, tools such as the survey maps and improved use of self-briefs have aided the briefing process.

Joe credited RP technician **Al Treat** for taking ownership of the control point redesign. "Al did a fantastic job representing his RP peers and ensuring we had a control point design that was workable and efficient," said Joe. "I thank him, as well as RP Supervisor **Mike Tullai**, RP Specialist **Ron Pride**, and Staff Nuclear Specialist **George Mohr** of Rapid Response for their support in making it happen."

The snubber team is briefed before work in the Drywell at the newly-designed Control Complex 620' Control Point.

D-B Safety Recognition

Continued from page 3

have increased their awareness of and commitment to performing their work safely and helping to ensure every employee on our site returns home safely at the end of each work day."

Actions developed and implemented to improve safety performance included:

- Increasing awareness of the Industrial Safety Manual requirements
- Using the appropriate tools and ensuring proper tool usage
- Increasing oversight of personnel in the field to reinforce safety standards

Actions to improve safety throughout the fleet also were implemented. The actions were outlined in the 2010 FENOC Personal Safety Improvement Action Plan that included initiatives to improve prevention, communication and injury response.

Brian added, "These combined actions have resulted in our safety trend reversing. Nothing is more important than maintaining an injury-free work environment for our employees. We should expect nothing less of ourselves or of our coworkers each and every day."

Paul displays both safety awards given to Davis-Besse during the 57th Annual Industrial Awards Banquet held last week.

Industry Excellence Topic of Davis-Besse All-Hands Meeting

FENOC President and Chief Operating Officer **Pete Sena** told Davis-Besse employees at the All-Hands meeting held last Friday, "I am extremely proud of this team's accomplishment in achieving industry excellence. You went from a two-year regulatory shutdown to that of top industry performers. This is a great team and the Institute of Nuclear Power Operations (INPO) site evaluation reflects that."

Site Vice President **Barry Allen** opened the All-Hands meeting by recognizing the site achieving industry excellence. He added, "Members of FirstEnergy's Board of Directors have extended their congratulations, along with Nuclear Committee of the Board Chairman **Bill Cottle**. Others in the industry also are responding positively and offering their congratulations. Each and every one of you made this happen, you've come a long way – thank you!"

Director of Site Operations **Brian Boles** also reviewed the areas of strength outlined in the evaluation, noting the most significant – conservative decision making in support of nuclear safety. The other strengths include:

- Operations monitoring of the plant
- Fire Protection Program
- Alloy 600 mitigation
- Margin Management Program
- High radiation area controls
- Training cycle newsletter

Director of Engineering **Vito Kaminskas** highlighted results of the Emergency Response evaluated exercise conducted the week of May 9. He noted there were no findings or issues identified by the Nuclear Regulatory Commission (NRC) team. The NRC also recognized excellent performance in the site's sirens, drill participation, self-critical critique process, challenging scenario and an improving trend in the area of drill/exercise performance. Additionally, the Federal Emergency Management Agency (FEMA) recognized strong performance by the federal, state and county agencies during the evaluation process with no findings or issues identified.

Barry also noted the exceptional performance by Site Protection in its recent triennial NRC Force-on-Force inspection. All areas inspected met compliance requirements. Barry said, "Site Protection stopped the adversaries in every scenario with a high level of margin. We congratulate Site Protection on this achievement – they are an outstanding team."

(Above) FENOC President and CNO Pete Sena conveys pride in the D-B team achieving industry excellence.

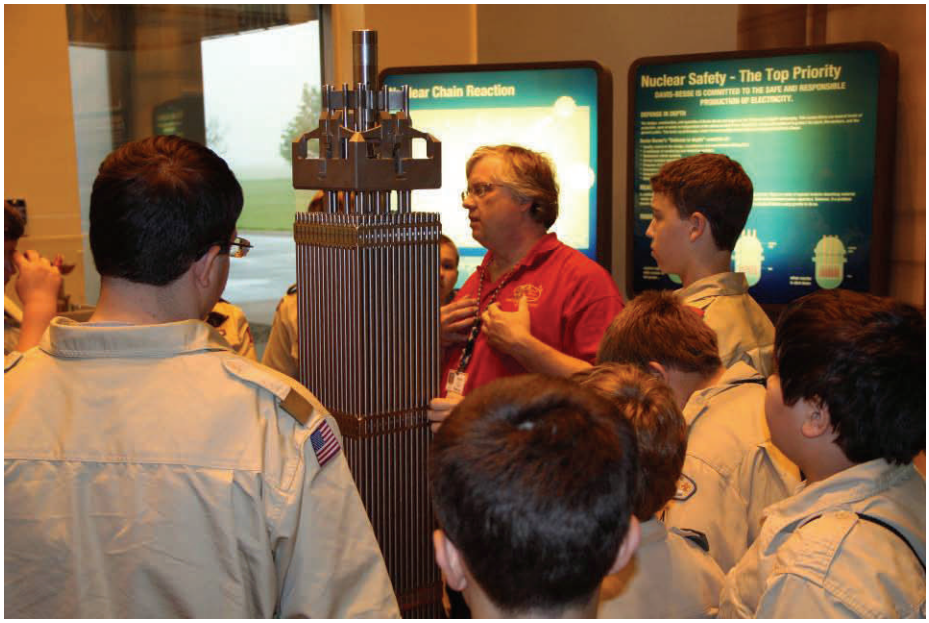
*(Below) The INPO host peers, **Mark Roelant**, manager of Site Projects and **Tom Summers**, manager of Plant Engineering, were each presented with an INPO certificate of appreciation. Barry thanked both for their effort during the INPO evaluation process.*

Scouts Earn **Nuclear Science Badges** at Davis-Besse

Approximately 120 boy scouts and 45 adults attended the Davis-Besse Atomic Energy Camporee May 14-15, where scouts completed requirements for the Nuclear Science merit badge.

The event included classroom studies and hands-on activities – all relating to radiation. The scouts also were provided a Site Security presentation and shown highlights from the 2010 100th Anniversary of Scouting National Jamboree.

Davis-Besse retirees **Bob Morrison** and **Pete Seniuk** volunteered their time to support this event. Morrison's Troop 160 of Millbury, Ohio, prepared all the meals. The annual event was coordinated by **Randy Burk** of Plant Operations. Other volunteers included **Jeff Cuff**, **Jack Reuter**, **Chris Sutter**, **Jason Durnwald**, **Nate Wahl**, **Nate Fleck**, **Dave Dreier** and **Dave Stephenson**.



(Top) Scouts attending the Atomic Energy Camporee use hand-held Geiger counters to simulate checking protective clothing for possible radioactive particles.

(Middle) A scout tries his hand at the Control Room Simulator.

(Bottom) Scouts learn about nuclear fuel and safety in Davis-Besse's Energy Education Center.

Fleeting **Glances**

Fleet

- The Fleet Corrective Action Program (FCAP) group recently issued NOBP-LP-2001, *FENOC Self-assessment/Benchmarking*, Rev. 16, which has been updated to help clarify and classify different types of benchmarking activities. A new presentation addressing these changes is available on the Fleet CAP page of the FENOC portal community. If you are involved in station self-assessment or benchmarking activities, please take a few minutes to review the presentation and familiarize yourself with the changes.
- Deadlines loom for the 2011 Nuclear Professional Engineer examination to obtain a professional engineer (PE) license in the nuclear field. A PE license confirms its holder's commitment to integrity and competence and enhances public trust; it also opens additional employment opportunities and distinguishes the holder from other applicants. The next examination will be administered by the National Council of Examiners for Engineering and Surveying (NCEES) on Oct. 28, 2011. NCEES will accept applications from June 15 to Sept. 9, but the approval of your state registration board is required before sitting for the exam. Each state board sets its own deadline for applications, so consult your board or its website right away for requirements that may be imminent. Go to www.NCEES.org or the National Society of Professional Engineers website, www.NSPE.org, and select "Licensure" – or go directly to the state board websites for Ohio or Pennsylvania.

Beaver Valley

- Beaver Valley's second quarter All-Hands meeting has been rescheduled from May 26 to Wednesday, June 15, at 10 a.m. in the GDC Warehouse. FirstEnergy President and Chief Executive Office **Tony Alexander** is scheduled to speak. Mark your calendars now. Look for additional meeting information on BVTV and in future issues of *FENOC OnLine*. Beaver Valley employees are strongly encouraged to attend this session.
- The Beaver Valley chapter of FirstEnergy Women in Nuclear (FEWiN) will conduct a professional women's clothing drive June 13-17 to benefit Dress for Success Pittsburgh. This organization promotes the economic independence of disadvantaged women by providing professional attire, a network of support and career development tools to help women thrive in work and life. Clothing drop-off times and a location will be announced soon. For a list of desired clothing and apparel items, click here.

Davis-Besse

- A three-week inspection to review 27 aging management programs at Davis-Besse was conducted recently by the NRC Region III License Renewal Inspection team. The team conducted several plant walk downs to assess the plant's materiel condition and reviewed the site's written responses to more than 140 questions. Overall, the inspection's objectives were achieved; however, the NRC team plans to return the week of Aug. 22 to complete seven of the 27 program reviews. These reviews are delayed so the site team can respond to NRC requests for additional information. The NRC team acknowledged the effort provided by the site and core license renewal team members in supporting the inspection activities.

Perry

- Perry will host the American Red Cross Bloodmobile on Wednesday, June 15, from 9 a.m. to 3 p.m. All who donate will receive a buy one, get one free movie ticket good at any Atlas Cinema. In addition, donors will be entered into the Red Cross 2011 Summer Giveaway drawing for an all-inclusive trip for four to Walt Disney World. Contact **Paul Kowalski** at ext. 5063 to schedule a donation time.
- Mark your calendars for the next thermoluminescent dosimeter (TLDs) exchange which begins June 15. New TLDs will be available for employees and remaining supplemental personnel for pickup from the wire racks at the Control Complex 620' Control Point, arranged in alphabetical order by last name. Old TLDs should be placed in the marked collection containers near the racks. If you will be on vacation when the TLD exchange begins, be sure to put your TLD on the wire rack before you leave, and your new TLD will be there when you return. Questions should be directed to Dosimetry at exts. 5345 or 5416.

May – June

27	DB, 1st Trimester 2011 Fleet Oversight Performance Assessment Debrief, 9:15a, PSF/4th Floor
27	DB, Reactivity Management Committee Meeting, 1p, PSF/4th Floor
29	PY, Final Restart Readiness Meeting, 9:30a, SB318
30	FirstEnergy, Memorial Day Holiday
31	BV, Radiation Protection Weekly Safety Meeting, 12:05p, IPAB
31	BV, Plant Health Committee Meeting, 1p, IPAB
31	DB, Manager Council Meeting, 12p, PSDF 4th Floor
1	BV, Outage Management Team Meeting, 12:20p, IPAB
1	BV, Work Week Critique, 2p, IPAB
1	DB, Plant Health Committee Meeting, 9:30a, PSF/4th Floor

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