Holly Welch, URSB Designee for the Ohio Emergency Management Agency called the Utility Radiological Safety Board (URSB) Statutory Board meeting to order at 1:32 PM on January 13, 2020 that was held at Ohio Emergency Management Agency.

The first order of business from the agenda was the roll call taken by Peter Hill, URSB board secretary.

I. **ROLL CALL (Board Members)**

<table>
<thead>
<tr>
<th>Agency</th>
<th>Name</th>
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<tbody>
<tr>
<td>Emergency Management Agency (Ohio EMA)</td>
<td>Holly Welch – Present</td>
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<tr>
<td>Department of Health (ODH)</td>
<td>Rebecca Fugitt – Present</td>
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<tr>
<td>Environmental Protection Agency (OEPA)</td>
<td>Jim Sferra - Present</td>
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<tr>
<td>Department of Agriculture (ODA)</td>
<td>Terri Gerhardt - Present</td>
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<tr>
<td>Public Utilities Commission (PUCO)</td>
<td>Randall Schumacher - Present</td>
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<tr>
<td>Department of Commerce (ODOC)</td>
<td>John Sharier - Present</td>
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A quorum was declared.

*Other Notable Attendees:*
- Mr. Dale Vitale, Attorney General’s Office (OAG)
- Mr. Sean Zalesny, First Energy Nuclear Operating Company (FENOC)
- Mr. Allan Barker, Nuclear Regulatory Commission (NRC)
- Mr. Chris Salz, Ohio Emergency Management Agency (OEMA)
- Mr. Steve Helmer, Ohio Department of Health (ODH)
- Mr. Bradley Mitchell, Ohio Environmental Protection Agency (OEPA)

II. **APPROVAL OF THE OCTOBER 15, 2019 MINUTES**

Ms. Welch provided a few minutes for the board to review the October 15, 2019 minutes. There were no corrections requested. Ms. Welch asked for a motion to approve the October 15 minutes as written. Ms. Gerhardt made a motion to accept the minutes and Mr. Sferra seconded the motion. A vote was called, all in favor, none opposed, the motion passed.

III. **OLD BUSINESS**

A. **Report on KI extension and replacement.**

Ms. Rebecca Fugitt reported that ODH sent 60 tablets each from lots TU401A and TU404A to be analyzed by Quality Chemical in North Carolina. The assay results showed that the tablets remain potent and usable for its intended purpose as a thyroid-blocking agent. Therefore, the expiration dates have been extended to December 31, 2021. An extension letter was sent to all the local health departments and emergency management agencies within the 10 Emergency Planning Zone (EPZ) in November. The new batch of KI shipment has been delayed until February. ODH is prepared to print bags and manufacture’s inserts once the lot numbers of the new KI are obtained from the NRC.
IV. NEW BUSINESS

A. Member Agency Quarterly Reports

1. Ohio Department of Agriculture – Terri Gerhardt
   • The Ohio Department of Agriculture attended the NPPEP and NEPAC meetings, and Technology working group meetings.

2. Public Utilities Commission – Randall Schumacher
   • Nothing significant to report.

3. Ohio Department of Health – Rebecca Fugitt
   ODH’s complete report was included in the meeting packets provided to each board member and visitor, and is available by contacting the URSB Secretary at (614) 889-7150.
   • ODH completed four observations as part of the Joint Inspection Observation Program (JIOP) this quarter:
     o October 21-25, 2019 at the Davis-Besse Nuclear Power Station.
     o October 21-25, 2019 at the Beaver Valley Power Station.
     o October 28 to November 1, 2019 at the Perry Nuclear Power Plant.
     o December 9-13, 2019 at Davis-Besse Nuclear Power Station.
   • Lab did collect and evaluate 242 environmental samples on power plants. All samples were at or near minimum detectable activity.
   • ODH provided the necessary supplies for contractors to continue collection of environmental monitoring samples.
   • ODH BERRP participated in the following power plant integrated drills this quarter:
     o October 15, 2019 DBNPS
     o November 12, 2019 PNPP
     o November 21, 2019 BVPS
   • Planning for the Beaver Valley plant exercise and dry run continues. Rosters for ODH and training dates are being developed.
   • Attended Nuclear Power Plant Emergency Planning (NPPEP) meetings at OEMA.
   • Attended Nuclear Planning and Advisory Committee (NEPAC) meeting on October 24, 2019.
   • ODH observed four Medical Service (MS-1) drills this quarter.
   • The utility is changed their dose assessment program from MIDAS to RASCAL - URI in November. The state dose assessment procedures are in draft format for the new software.
   • To maintain proficiency with TurboFRMAC software, problem sets continue to be distributed quarterly to individuals who have completed the Assessment Scientist 100 course provided by FRMAC.
   • Potassium Iodide extension and replacement was discussed and is recorded separately in these minutes.
   • ODH observed both Lucas and Ottawa Counties RRR drills on October 23, 2019.
   • ODH attended the FEMA Region V Training and Exercise Planning Workshop on November 6-8, 2019 in Chicago, IL.
   • ODH attended the Tri-County/Tri-State meeting in Ambridge, PA on December 5, 2019.
4. **Ohio EMA – Chris Salz**

Mr. Salz talking points were included in the meeting packets provided to each board member and visitor. He reviewed a few of them with the board; the complete list can be obtained from the URSB Secretary at 614-889-7150.

- Printing and mailing of URSB annual report for Governor, President of the Senate, and Speaker of the House.
- Updates to URSB website.
- HSIN GIS platform training with FEMA Region V.
- OEMA GIS person has retired and a replacement candidate dropped out, so the process is starting over. We are working internally to support BVPS exercise, but may look to partner agencies for assistance.
- 2020 Ohio REP plan review and finalization.
- 2020 BVPS dry run and exercise planning.
- Updated URI software on SEOC computers and distributed programs to partner agencies.
- Working with Teletrix for Ludlum 3001 simulation capabilities.
- FEMA Region V Site Assistance Visits in Columbus, Columbiana County, Ottawa County, and Lake County for REP plan review.
- Davis-Besse RRR Evaluated Exercise.
- NEPAC and NPPEP meetings.
- Attended REP TEPW at FEMA Region V in Chicago.
- Joint FMT training with the LCGHD FMTs.
- REP MOU annual review was completed, and OEMA is currently drafting a letter for the 2020 review.
- Completed MS-1 exercises for 2019, all three EPZs.
- Completed an integrated drill for all three sites, 2019 integrated drills are complete.
- FRMAC Assessment Scientist webinar.
- Completed REP equipment exchanges in Columbiana County.
- Ed Filippi performed JIOP of NRC ALARA inspections at PNPP 10/28/19 - 11/1/19.
- Attended Midwest Radioactive Materials Transportation Committee meeting in Indianapolis, and participated in TTX on Spent Fuel shipments.
- Attended Tri-County, Tri-State meeting for BVPS.
- Implementation of KI extension letter for emergency worker and institutionalized KI.
- Working with USCG to update MOU concerning lake clearance.
- Scheduled IPX TTX Walkthrough for afternoon of 11/19/20 following BVPS integrated drill.

In addition to the EMA report, Mr. Salz reminded all members and designees that Ohio Ethics Commission financial disclosure statements for 2020 are now available to be completed online.
5. **Environmental Protection Agency – Jim Sferra**
Ohio EPA’s quarterly report was included in the meeting packets provided to each board member and visitor. It is available by contacting the URSB Secretary at 614-889-7150.

- Mr. William Lohner no longer works for OEPA, having taken a position at ODH. OEPA is working on posting for a replacement.
- Ohio EPA participated in the URSB quarterly meeting at Ohio EMA on October 15, 2019.
- Ohio EPA participated in the NEPAC meeting at FENOC, Akron Campus, on October 24, 2019.
- Ohio EPA participated in the NPPEP meetings at Ohio EMA on October 30, 2019 and December 13, 2019.
- Ohio EPA submitted their annual training report to Ohio EMA for the Annual Letter of Certification (ALC) on December 31, 2019.

6. **Department of Commerce – John Sharier**
- Nothing significant to report.

B. **Nuclear Regulatory Commission (NRC): Mr. Allan Barker**
Mr. Barker reported on the third quarter integrated inspection reports issued in November 2019 for each of the plants.

**Davis Besse:** On November 12, 2019, the third quarter integrated inspection report for Davis-Besse was issued. Based on the results of the inspection, there was one finding of very low safety significance (Green) identified which is summarized as follows.

- The failure to accomplish repairs to a safety-related butterfly valve in accordance with appropriate instructions and procedures. The inspectors identified that actions taken to address loose taper pins associated with the safety related component cooling water system were performed without appropriate instructions and procedures that incorporated appropriate quantitative or qualitative acceptance criteria. Prior to installation the inspectors questioned the licensee as to why one of the three taper pins holding the disk to the butterfly appeared to be loose. In response to the inspector’s question, the licensee performed repairs by resetting and staking the pins in accordance with mechanical maintenance procedure DB-MM-09317 “Fisher type 9100 butterfly control valve maintenance.” This resulted in the ends of the taper pins being flush with the surface of the disk. Information Notice 2005-23, and Part 21 report 2005-42 described the issue of loose taper pins, with corrective actions to include the proper seating and staking of the pins. The vendor manual details the requirement for the pin ends to be below the surface of the disk before peening. After review of the licensee’s actions taken to repair the valve, the inspectors noted that the pins were improperly set and staked. Additionally, the inspectors identified the mechanical maintenance procedure, DB-MM-09317, included the vendor manual as a reference, but did not incorporate the vendor manual quantitative criteria ensuring the ends of the pins were below the surface of the disk before peening. The licensee returned the valve to the vendor, who determined the pins were in fact improperly installed. This resulted in NRC Event Notification 54238, Part 21 report 2019-24, and Fisher (vendor) Information Notice 2019-01, which revised and clarified the steps necessary to achieve the quantitative criteria that the large end of the taper pins be driven below the surrounding surface and then the surrounding material peened over the heads.
**Perry Nuclear Power Plant:** On November 14, 2019, the third quarter integrated inspection report for Perry was issued. Based on the results of the inspection, two findings of very low safety significance (Green) are summarized as follows.

- A self-revealed finding for the failure to accomplish work activities in accordance with instructions, procedures, or drawings. Specifically, the licensee failed to properly install the “A” essential service water control power fuses in accordance with SOI-R22, “Metal Clad Switchgear 5-15 kV,” paragraph 2.3 such that the fuses were able to back out and cause an unplanned inoperability of several safety related systems during routine breaker operation.
- A self-revealed finding for the failure to perform adequate preventive maintenance on the main generator exciter brushes, which led to brush failures, loss of generator field excitation, generator lockout, and reactor scram.

On November 21, 2019, the NRC completed a problem identification and resolution inspection at Perry. The NRC inspection team reviewed the station’s corrective action program and the station’s implementation of the program to evaluate its effectiveness in identifying, prioritizing, evaluating, and correcting problems, and to confirm that the station was complying with NRC regulations and licensee standards for corrective action programs. Based on the samples reviewed, the team determined that performance in each of these areas adequately supported nuclear safety. The team also evaluated the station’s processes for use of industry and NRC operating experience information and the effectiveness of the station’s audits and self-assessments. Based on the samples reviewed, the team determined that performance in each of these areas adequately supported nuclear safety. In addition, the team reviewed the station’s programs to establish and maintain a safety-conscious work environment and interviewed station personnel to evaluate the effectiveness of these programs. Based on the team’s observations and the results of these interviews the team found no evidence of challenges to the organization’s safety-conscious work environment. Perry’s employees appeared willing to raise nuclear safety concerns through at least one of the several means available. No findings or violations of more than minor significance were identified during this inspection.

**Beaver Valley:** On November 6, 2019, the third quarter integrated inspection report for Beaver Valley Units 1 and 2 was issued. Based on the results of the inspection, there were no findings or violations identified more than minor significance.
C. Federal Emergency Management Agency (FEMA) – Mr. Chris Salz

FEMA Region V was unable to attend; Mr. Chris Salz presented their report.

- FEMA RPM and NUREG Revision #2 have been released. FEMA RV has sent the documents to Ohio EMA to be distributed to all State of Ohio Stakeholders
- FEMA RV is working on an implementation schedule to roll out the documents to Ohio EMA, ODH, Counties, and the Utility
- Ed Golinski and Todd Gemskie provide a high-level training to Ms. Suzanne Cox, a staffer from Senator Rob Portman’s office on November 6.
- Informed Ms. Cox of what REPP does and our partnership with all Ohio Stakeholders
- Informed Ms. Cox that the partnership we have with Ohio EMA, ODH, and First Energy (previously) is top-notch
- Informed Ms. Cox that the nuclear program in the State of Ohio is outstanding and working with the State Director, Ohio EMA REP Staff, ODH, and First Energy is pleasure
- Awaiting FEMA RV Leadership to finish the review of the last Final After-Action Report from the Davis-Besse RRR and Medical Services Drill
- Final After-Action Reports for the Perry Medical Services Drill and the Beaver Valley Medical Services Drill have been sent to all Stakeholders inclusive of FEMA HQ and the NRC
- Completed Plan Review SAVs with the Perry, Davis-Besse, and Beaver Valley Nuclear Plants
- Observed (not evaluated) a Davis-Besse NPS monitoring and decontamination demonstration
- Ohio EMA gave FEMA RV a tour of the RIMC Lab in Columbus, OH
- FEMA RV (Brett Beardsley) provide GIS Training to Ohio EMA
- Had a conference call with Ohio EMA and ODH to discuss long-term dose assessment post a nuclear release. Call went extremely well. FEMA RV understands that developing a strategic plan regarding to meet the intent of Planning Standard M is going to take time
- FEMA RV Training and Exercise workshop was held in Chicago. The exercise schedule has been updated to include 2027. All stakeholders were emailed the calendar and the presentations
- All hard copy 2019 plans and procedures for Davis-Besse, Perry, and Beaver Valley have been delivered to the FEMA RV COOP Site
- Attended the Beaver Valley Offsite Agency Training and the Extent-of-Play Agreement meeting

D. FENOC:
Mr. Sean Zalesny, First Energy Nuclear Operating Company (FENOC) reported for the utility. A complete copy of his notes are available by contacting the URSB secretary 614-889-7150.

Beaver Valley Power Station

Unit 2 Refueling Outage

Beaver Valley is preparing for the 21st refueling outage for Unit 2. The outage will begin the second week of April with a targeted duration of 28 days. A standard reactor refueling will take place, as well as eddy current testing of steam generators, sleeving and tube repair as necessary. An inspection of the reactor vessel head will be conducted and necessary repairs completed as well as thousands of maintenance activities on the secondary plant to ensure safe and reliable operation for the next 18-month cycle.
Beaver Valley Evaluated Exercise Preps

Work continues in preparation for the 2020 Beaver Valley Evaluated Exercise, scheduled for June 9, 2020. Scenario development, as well as a thorough validation of the scenario in the simulator, has been completed. Beaver Valley will be conducting a series of tabletop drills with all ERO teams in January and February, leading up to the Dry Run, in which the Green Team will be participating, on March 19.

The next Beaver Valley integrated drill is scheduled for March 19, 2020.

Davis-Besse Nuclear Power Station

Davis-Besse Refueling Outage

At the end of February Davis-Besse will staff the outage control center and begin the 21st refueling outage. The targeted duration for the outage is 25 days. Major work includes a standard refueling, once through steam generator eddy current testing of steam generators, control rod drive nozzle ultra-sonic testing, main feed pump #2 turbine inspections and repairs of the 108” circulating water lines.

The next Davis-Besse integrated drill is scheduled for May 16, 2020.

Perry Nuclear Power Plant

Identified Fuel Defects

On December 10, Perry lowered reactor power to 64% to support power suppression testing. On December 11, power suppression testing was completed with a fuel defect localized to cell 50-34. As a result, control rod 50-34 was fully inserted to suppress the defect. Reactor power was subsequently restored power to 100% on December 13.

Early in January, indications of a second fuel defect were identified. As a result, reactor power was lowered for power suppression testing on January 4. Power suppression testing was completed by Monday January 6 with the identification of a second fuel defect. The power suppression testing was completed safely and error free, due to the effort and focus of operations, reactor engineering, chemistry and radiation protection personnel.

The identification of a second fuel defect is not welcome news but it can be safely managed through the rest of this operating cycle. The response of the Perry organization to identify and suppress the defect was top notch – reactor engineering developed the plan and it was implemented January 4th and 5th by operations maneuvering plant power and control rods for testing, chemistry obtaining and analyzing off gas samples and radiation protection monitoring plant conditions. The Perry team with support from Fleet Fuels and General Electric (global) Nuclear Fuels (GNF) analyzed the data and developed suppression strategies early Sunday morning. Control rod 10-23 was fully inserted on Sunday to suppress the defect. Power escalation was initiated the afternoon of January 5th, with maximum obtainable power achieved Monday, January 6th. One additional plant down-powers for final control rod adjustment to sustained 100% power operations was conducted the night of January 6th.
This defect will be managed the same as the earlier defect (50-43) identified in December of last year. Localized power was reduced in the area of the defect by fully inserting a control rod – and the control rods will remain inserted until the next refueling outage. Work control – outage group is reviewing impact and strategy for 1R18 fuel bundle sipping and removal of the two fuel bundles.

Reactor engineering, strategic engineering and maintenance are investigating possible causes of the defects through involvement with fleet, industry plants with current defects and GNF.

Plant operation will essentially remain unchanged for the rest of the cycle, other than slower power ramp rates and multiple power ramps to get back to sustained, 100% power operations. Long term impact with the two control rods is currently being assessed, but will most likely lead to a longer coast down period into 1R18.

We will continue to monitor the two fuel defects as required by the Operations Decision Making Issue Document (ODMI) and the nuclear fuel procedure NOP-NF-1002, Fuel Integrity Monitoring and Assessment.

The next Perry integrated drill is scheduled for April 15, 2020.

V. MISCELLANEOUS

Ms. Welch took the opportunity to discuss the recent inadvertent notification of the public of a nuclear power plant alert in the Canadian Province of Ontario. It was pointed out that Ohio has numerous procedures in place to prevent a similar incident. Mr. Salz stated he intends to ask our Ontario counterpart to share any lessons learned from this issue, and will be adding this topic to the agenda of the next NEPAC meeting.

A. Questions from the Public

There were no questions from the public.

VI. ADJOURNMENT

Ms. Welch asked if there was any further discussion on any of the topics covered, and hearing none requested a motion to adjourn. Ms. Gerhardt made a motion and a vote was taken, all were in favor, none opposed and the meeting was adjourned at 2:18 PM.