Pasquale Razzano, URSB Secretary started the Virtual Public Meeting by introducing himself and the meeting. Chris Salz, URSB Designee for the Ohio Emergency Management Agency called the Utility Radiological Safety Board (URSB) Statutory Board meeting to order at 1:30 PM on January 10, 2022. The meeting was conducted at the Ohio Emergency Management Agency located at 2855 West Dublin-Granville Road, Columbus, Ohio 43235, and available to the public and non-designees utilizing Microsoft TEAMS. The public invitation to join the meeting was posted on the URSB website and in a press release.

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

I. ROLL CALL (Board Members)
   EMERGENCY MANAGEMENT AGENCY (Ohio EMA)     CHRIS SALZ – Present
   DEPARTMENT OF HEALTH (ODH)                    REBECCA FUGITT – Present
   ENVIRONMENTAL PROTECTION AGENCY (OEPA)        JIM SFERRA - Present
   DEPARTMENT OF AGRICULTURE (ODA)               TERRI GERHARDT – Present
   PUBLIC UTILITIES COMMISSION (PUCO)            JOHN WILLIAMS - Present
   DEPARTMENT OF COMMERCE (ODOC)                JOHN SHARIER- Present

   A quorum was declared.

   Other Notable Attendees:
   Mr. Sean Zalesny, Energy Harbor Nuclear (EHN)
   Mr. Dale Vitale, Attorney General’s Office (AGO)
   Mr. Allan Barker, Nuclear Regulatory Commission (NRC) – Virtual
   Mr. Sean O’Leary, Federal Emergency Management Agency (FEMA) – Virtual

II. APPROVAL OF THE October, 2021 MINUTES
   Mr. Salz provided a few minutes for the board to review the October 12, 2021 minutes. There were no corrections requested. Mr. Salz asked for a motion to approve the October 12, 2021 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. Distribution of 2021 Annual Report
      Mr. Salz noted that the URSB Annual Report has been distributed.

   B. KI Wrap-up
      Mr. Salz Held an open discussion regarding KI and KI wrap-up.
IV. NEW BUSINESS

A. Discussion to complete BVPS exercise virtually from a state standpoint
Mr. Chris Salz opened a discussion regarding the state participating in the BVPS exercise from a virtual standpoint.

B. Ingestion Week
Mr. Salz held an open discussion regarding possible dates for the 2022 Ingestion Week.

C. Member Agency Quarterly Reports
Mr. Salz asked each designee to present their quarterly reports.

1. Ohio Department of Agriculture – Terri Gerhardt
   • Nothing significant to report.

2. Public Utilities Commission – John Williams
   • PUCO staff attended the Midwestern Radioactive Materials Transportation Committee (MRMTC) Fall Meeting on December 1-2, 2021.

3. Ohio Department of Health – Rebecca Fugitt

   JOINT INSPECTION OBSERVATION PROGRAM (JIOP)

The Ohio Department of Health (ODH) had minimal involvement with the JIOP’s during the fourth quarter. ODH was onsite at Davis-Besse with NRC on November 17th and virtually participated in the exit meeting on December 13, 2021. The Perry inspection was completed virtually by the Nuclear Regulatory Commission (NRC) inspector.

<table>
<thead>
<tr>
<th>Plant</th>
<th>Inspection Title</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Davis Besse</td>
<td>Rad Solid Waste Processing &amp; RAM Handling/Storage/Transportation</td>
<td>November 15-18, 2021</td>
</tr>
<tr>
<td>Perry</td>
<td>Occupational ALARA Planning &amp; Controls</td>
<td>November 29 – December 3, 2021</td>
</tr>
</tbody>
</table>

RADIOLOGICAL ENVIRONMENTAL MONITORING ACTIVITIES

Currently, a total of 217 environmental samples have been collected during the 2nd quarter of SFY 2022, specifically: 91 air particulate, 91 carbon cartridges, 30 water, 1 kale, 1 turnip greens, 1 collard greens, 1 swiss chard, and 1 sediment sample. The ODH Lab analyses shows samples were near or below the Lower Limit of Detection (LLD) to date.

The environmental monitoring inventory needs of each contractor continued to be met by providing the supplies necessary for the continued collection of samples. This quarter the following inventory was provided:
<table>
<thead>
<tr>
<th>Ottawa County Health Department</th>
<th>100 sample submission forms, 24 cubitainers, 25 carbon cartridges, 50 petri slides, 50 envelopes, 100 6x9 bags</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lake County Health District</td>
<td>50 petri slides</td>
</tr>
<tr>
<td>East Liverpool</td>
<td>None</td>
</tr>
<tr>
<td>City of Cleveland, Division of Air Quality</td>
<td>100 sample submission forms, 100 6x9 bags, 50 envelopes, 50 petri slides, 30 charcoal cartridges</td>
</tr>
<tr>
<td>ODH Laboratory</td>
<td>200 sample submission forms, 45 charcoal cartridges</td>
</tr>
</tbody>
</table>

The Davis-Besse, Perry, Cleveland, Reynoldsburg, and East Liverpool pumps were calibrated and either maintained or replaced this quarter.

The annual vendor review audits were completed this quarter.

**NUCLEAR POWER PLANT EMERGENCY PLANNING**

ODH attended the virtual state agency nuclear power plant emergency planning meetings on October 13, 2021 and December 1, 2021 using Microsoft TEAMS.

The following integrated plant practice drills were conducted. One was staffed by ODH Dose Assessment personnel as indicated below:

<table>
<thead>
<tr>
<th>Date</th>
<th>Plant</th>
<th>Participation</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>October 5, 2021</td>
<td>Davis Besse Nuclear Power Station</td>
<td>Yes</td>
<td>Virtual for Dose Assessment</td>
</tr>
<tr>
<td>December 14, 2021</td>
<td>Beaver Valley Power Station</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

In addition, ODH conducted several mini intermediate phase drills starting October 5 and concluding on October 14 by holding an Ingestion Zone Reentry and Recover Advisory Group (IZRRAG) drill, sampling team drill, laboratory drill, and a dose assessment drill.

Planning for the 2022 Beaver Valley Power Station Virtual partial participation exercise has begun. The extent of play meeting was held December 3, 2021 at Columbiana County EMA. Following is the current training and exercise schedule:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virtual Dose Assessment Training</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>Virtual Systems Training</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>Beaver Valley Dry Run</td>
<td>May 12, 2022</td>
<td>4 – 10pm</td>
</tr>
</tbody>
</table>
ODH is meeting regularly with Ohio EMA to discuss and incorporate all the necessary changes that came with the 2019 FEMA REP Program Manual. Other state agencies are also being brought in when needed for this overhaul.

**NUCLEAR EMERGENCY PLANNING AND ADVISORY COMMITTEE**

The virtual meeting of the Nuclear Emergency Planning and Advisory Committee (NEPAC) was cancelled this quarter that was scheduled for November 12, 2021. The next meeting will be virtual as well and is currently scheduled for January 20, 2022.

**POTASSIUM IODIDE (KI)**

Although new KI has been distributed to the local health districts within the 10 mile emergency planning zones, not all state and local agencies are able to exchange the expired KI tablets by December 31, 2021 with the new tablets. Upon review of the testing data and the Food and Drug Administration (FDA) guidance, ODH has issued an extension of the KI expiration date to June 30, 2022 to allow for the exchange to occur.

**RADRESPONDER**

The revised RadResponder CONOPS plan was formatted to include signatures and logos from each of the state agencies who are responsible for implementing the response actions within the document.

**DOSE ASSESSMENT**

Virtual RASCAL dose assessment classes were offered in November by NRC through their Radiation Protection Computer Code Analysis and Maintenance Program (RAMP). ODH was able to attend one class due to schedule conflicts.

**FEDERAL RADIOLOGICAL MONITORING and ASSESSMENT CENTER (FRMAC)**

To maintain proficiency with TurboFRMAC software, problem sets are distributed quarterly to individuals who have completed the Assessment Scientist 100 course provided by FRMAC. The fourth quarter assignment started with a webinar on November 16, 2021 covering the administration of Potassium Iodide (KI) and was followed by a problem set that is due December 23, 2021.

**ADDITIONAL ACTIVITIES**

ODH participated in the URSB Statutory Meeting on October 12, 2021.

ODH participated in a Radiological Dispersal Device (RDD) exercise and training event with Toledo Fire and 52nd Civil Support Team (CST) on October 21, 2021.
ODH participated in the Regional Training and Exercise Preparedness Workshop (TEPW) virtually on November 3 and 4, 2021. ODH observed Medical Services (MS-1) exercises for the Davis Besse Nuclear Power Station on November 17 and 18, 2021.

4. Ohio EMA – Chris Salz

- Annual Federal Emergency Management Agency (FEMA) Region V Radiological Emergency Preparedness (REP) Training and Exercise Planning Workshop (TEPW) also known as the Radiological Emergency Preparedness (REP) scheduling conference, this will be a virtual conference hosted in Chicago, Illinois
- BVPS integrated 12/14/2021
- Planning meeting with PT&E branch for BVPS evaluated exercise.
- BVPS evaluated exercise extent of play meeting in Columbiana, County.
- Mike Reiser Retirement.
- Two interviews scheduled for Columbus Rad Analyst position.
- 2022 REP plan completed
- Continuing to compile 2021 ALC

5. Environmental Protection Agency – Jim Sferra

**OHIO EPA PARTICIPATED IN THE FOLLOWING MEETINGS:**

- Oct 13, 2021 – NPPEP Meeting
- Oct 13, 2021 – Ingestion Sampling Drill
- Oct 15, 2021 – Ohio REP Meeting
- Oct 22, 2021 - Ohio REP Meeting
- Dec 1, 20201 – NPPEP Meeting

**ADDITIONAL ACTIVITIES**

- Ohio EPA has also been updating our Ingestion Zone Recovery and Re-entry Advisory Group radiological field sampling team manual and standard operating procedures.
- Ohio EPA is preparing for calibration of equipment and is coordinating with the Ohio EMA laboratory.
- Ohio EPA conducted training on Nov 15, 2021, for our IZRRAG field sampling team members to meet the annual training requirements.
- Ohio EPA participated in the Rad Tech Work Group.
- Ohio EPA is planning for IZRRAG fields sampling team training for the next calendar year.
6. Department of Commerce – John Sharier
   • Nothing significant to report.

D. Nuclear Regulatory Commission (NRC) - Allan Barker

Mr. Barker’s talking points were provided to each board member prior to the meeting. He reviewed a few of them with the board; the complete list can be obtained from the URSB Secretary at 614-799-3653.

DAVIS-BESSE NUCLEAR POWER PLANT

- On November 9, 2021, the third quarter integrated inspection report for Davis-Besse was issued. Based on the results of the inspection, there was no findings or violations of more than minor significance identified during this inspection.
- On July 22, 2021, the NRC completed its initial assessment of multiple emergency diesel generator failures that took place from July 2019 to June 2021, as well as a reactor trip with multiple complicating equipment issues, which occurred on July 8, 2021, at Davis-Besse. Based on this initial assessment, the NRC sent an inspection team to Davis-Besse on July 26, 2021. On October 7, 2021, the NRC completed its special inspection, and report issuance was on November 19, 2021, through special inspection reactive report number 05000346/2021050. The results of the inspection concluded there were five findings. Of the five, two are pending additional NRC review to assess their safety significance. The other three were self-revealed findings of very low safety significance (Green).

FINDINGS

- On December 15, 2021, the NRC’s preliminary detailed risk evaluation of the safety significance of an inspection finding was issued. The finding involved the failure to select a suitable replacement part for the emergency diesel generator (EDG) speed switch. The speed switch design was not compatible with the station’s 125/250 Volts direct current (Vdc) battery system. The switch design contained a subcomponent that was rated for 170 Vdc but was exposed to a voltage potential of 201 Vdc. The long-term exposure to this voltage potential caused the switch subcomponent to fail and, combined with another unrelated ground on the 125/250 Vdc system, resulted in failure of the switch. The failure of the switch resulted in the failure of the EDG to start during testing on September 4, 2020.
- On December 16, 2021, the NRC’s preliminary determination of the safety significance of an inspection finding was issued. The finding involved the failure to develop a preventative maintenance schedule for the inspection of the EDG field flash selector switch. The switch was not inspected from the time it was installed in the plant in 2006. The failure to inspect the switch contributed to the long-term degradation of the switch electrical contacts and ultimately contributed to an EDG failure during fast start testing on May 27, 2021.
PERRY NUCLEAR POWER PLANT

- On November 12, 2021, the third quarter integrated inspection report for Perry was issued. Based on the results of the inspection, there was no findings or violations of more than minor significance identified during this inspection.
- On December 1, 2021, the triennial fire protection inspection report for Perry was issued. Based on the results of the inspection, there was one finding of very low safety significance (Green) identified during the inspection and is summarized as follows.

  The finding involved the failure to have adequate procedural guidance in their fire response procedure. Specifically, Procedure IOI-0011, “Shutdown from Outside Control Room,” Revision 39, did not prioritize isolation of the Control Room circuits for breaker EH1115 and it did not include instructions for operating the circuit breaker without control power.

BEAVER VALLEY UNITS 1 AND 2

- On November 9, 2021, the third quarter integrated inspection report for Beaver Valley Units 1 and 2 was issued. Based on the results of the inspection, there was no findings or violations of more than minor significance identified during this inspection.

E. Federal Emergency Management Agency (FEMA) – Sean O’Leary

Mr. O’Leary’s full report is available by contacting the URSB secretary at 614-799-3653.

- Discussed the ALC requirements, the plan reviews, the 2019 RPM trainings, the upcoming Beaver Valley REPEX, and the upcoming Perry HAB Meeting.

F. Utility Report, Energy Harbor Nuclear (EHN) – Sean Zalesny

Mr. Zalesny of Energy Harbor Nuclear (EHN) reported for the utility. A complete copy of his notes are available by contacting the URSB secretary 614-799-3653.

BEAVER VALLEY POWER STATION

- Following the completion of 2R22, a 34-day and 17-hour planned outage, Beaver Valley Unit 2 ascended to 100% power on November 16. At 1313 on November 17, due to a trip of the ‘B’ main feedwater pump, the reactor was manually tripped. The feedwater pump trip was initiated by a trip of the ‘A’ heater drain pump and the ‘A’ separator drain pump, which caused low suction pressure to the main feed pump.
- The Beaver Valley team responded well and immediately activated the outage control center and formed an Event Response Team to identify the causes of the event and corrective actions required. As the issues were identified, which were related to level control and dump valve issues in the heater drain system, the team developed and implemented repair plans to return the unit to safe operation.
- On November 20 at 0824 Unit 2 was synchronized to the grid. A controlled power ascension proceeded and on Sunday November 21 Unit 2 reached 100% power.
• Emergency Response activities were focused on the completion of the Emergency Management Performance Evaluation, which is a small piece of the larger evaluation conducted by the World Association of Nuclear Operators (WANO) in 2022. The Beaver Valley Emergency Response Organization performed very well during the drill, which was concluded with no performance issues identified.

• The next Beaver Valley integrated drill is scheduled for March 10, 2022.

DAVIS-BESSE NUCLEAR POWER STATION

• Davis-Besse Emergency Response has continued to work on the development of the new Emergency Response Organization procedures, checklists, and training material. Davis-Besse held a table-top drill at the Emergency Operations Facility on December 9, 2021 to validate the new procedures and checklists, and to identify any improvements or enhancements that can be made prior to implementation.

• On December 2, 2021, condensate pump discharge sodium levels began to rise and other monitored secondary systems began to increase shortly after, which is an indication of a leak into the condenser. The Davis-Besse team staffed the Outage Control Center and assembled a team to address the rising sodium levels. Early on December 3, a down-power was initiated to minimize intrusion of sodium into the steam generators. The systems were isolated and diagnostic equipment was utilized to determine the tubes in the condenser that were leaking. The leaking tubes were plugged and the plant was returned to full power on December 7, 2021.

• The Davis-Besse team has been focused on the preparation for 1R22, the twenty second refueling outage, which will begin March 5 and is scheduled to be completed the first week of April.

• The next Davis-Besse integrated drill is scheduled for May 24, 2022.

PERRY NUCLEAR POWER PLANT

• The Perry Nuclear Power Plant has continued to operate safely and reliably throughout the 19th cycle. On Christmas, the Perry team has identified a negative trend on heater level of the 5 ‘A’ feedwater heater. The team made a conservative decision to reduce power to 85% to safely facilitate removal of the 5’A’ feedwater heater from service. A multi-disciplined team was assembled to identify the necessary repairs and establish the safest conditions to perform them. After extensive evaluation, it was determined that the repair of the feedwater heater would require the plant to be shut down and the repair would likely be very extensive. It is of course desirable to return the feedwater heater to service to allow the plant can achieve full power, however due to the nature of the anticipated repairs to the feedwater heater, it was determined that additional time would be necessary to align the proper resources and ensure all personnel were prepared to perform the repair safely. The Operations staff were able to reach a maximum of 96% power with the heater out of service. As preparations continue, a schedule will be developed to enact the repair and return the feedwater heater to service.

• The Perry EP staff has continued to focus their resources on the ERO restructuring effort by leading the development of new emergency plan implementing procedures which will be used fleet wide. New procedures and position specific checklists have been developed which
will provide an increased focus on the most important tasks, while also reducing unnecessary information and distractions from the procedures.

- The Perry Emergency Response Organization conducted the first of a series of validation drills on October 19, 2021, with the last scheduled for Beaver Valley later in January. Valuable insights and improvements were identified as a result and will be incorporated prior to implementation.
- Similar to the Beaver Valley team, Perry is preparing for a Emergency Management Performance Evaluation, as a component of a WANO evaluation which will occur later in 2022. The Perry drill is scheduled for March 8 and will be evaluated by WANO personnel as well as industry peers.
- The next Perry integrated drill is scheduled for March 8, 2022 (WANO).

V. MISCELLANEOUS

A. Questions from the Public
URSB Secretary Patsy Razzano opened the floor for questions from the public. There was a Q&A dialog box opened on the virtual meeting. There were no questions from the public. There were no members from the public present.

VI. ADJOURNMENT

Mr. Salz 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, Mr. Sferra seconded the motion. A vote was called, all were in favor, none opposed and the meeting was adjourned at 2:09 PM.