

**FY 2013**

**URSB of Ohio Annual Report**



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## **REPORT FROM THE CHAIRMAN**





## Utility Radiological Safety Board of Ohio

### REPORT TO THE GOVERNOR AND GENERAL ASSEMBLY

Governor Kasich and Members of the Ohio General Assembly:

The member agencies of the Utility Radiological Safety Board (URSB) of Ohio - the Departments of Agriculture, Health and Commerce, the Emergency Management and Environmental Protection Agencies, and the Public Utilities Commission are pleased to present the 2013 annual report of major Board activities.

The URSB was established in July 1989 (ORC Section 4937) to coordinate the nuclear power plant responsibilities of its member agencies. The Board is also charged with the responsibility of enhancing the quality of the State's response to nuclear power safety issues in the areas surrounding our nuclear power plants. This report delineates the actions of the Board toward the accomplishment of these goals.

This year the URSB completed rotating the quarterly meetings between Columbus and locations in the three nuclear power plant areas in an effort to generate more public participation. While there was increased attendance by employees of First Energy Nuclear Operating Company and local Emergency Management Agencies, members of the public did not participate.

The 2012 Perry Nuclear Power Plant full participation exercise was conducted over the week of October 1, 2012. This exercise consisted of two phases: The emergency phase during which the state demonstrates its ability to respond to a release of radioactive materials from a nuclear power plant, and the ingestion phase which addresses the longer term effects of such a release. The ingestion phase is an activity of great complexity and must be demonstrated every six years. As a result of the exercise FEMA identified only minor planning issues for the state which will be corrected in the After Action Process.

The 2013 Davis-Besse Nuclear Power Station was a full participation exercise for the state with Ottawa and Lucas Counties demonstrating Re-entry, Return and Recovery activities during the week of May 13, 2013. There was one Area Requiring Corrective Action (ARCA) for a state field monitoring team which will be re-demonstrated at the next full participation exercise, one ARCA for Ottawa County which was immediately re-demonstrated, and one planning issue.

There two classifiable events in SFY13 for nuclear power plants affecting Ohio.

Perry Nuclear Power Plant declared an Unusual Event (UE) on November 28, 2012 due to elevated carbon monoxide (CO) levels in the Radiological Waste (RW) control room. The elevated CO readings were detected during routine sampling that was conducted while maintenance activities on the RW ventilation system were being performed. This resulted in the evacuation of personnel from the RW control room and the declaration of the UE. Investigation by plant personnel found a leaking acetylene tank was responsible for the high CO readings. After restoring ventilation and sampling showed CO readings returned to normal, the RW control room was staffed and the plant exited from the UE.

Beaver Valley Power Station Unit 2 declared an Unusual Event at approximately 8:35 am on Friday June 14, 2013 due to the activation of the carbon dioxide fire suppression system in the Unit 2 turbine building. The notification call was received by the dispatch center which notified the duty officer who subsequently notified the Radiological Branch Chief. Members of the radiological branch reported to the assessment room annex to make notifications and monitor the situation. All needed notifications were made and subsequent contact with the U.S. Nuclear Regulatory Commission and plant personnel

allowed the branch to maintain situational awareness until the declaration was terminated at 9:55 am. Minor after action items were identified and will be resolved.

The URSB continues to closely monitor nuclear power issues that could have a direct effect on Ohio's nuclear utilities and the safety of Ohio's citizens.

I encourage your review of the many specific activities of the URSB and its member agencies contained in the enclosed overviews.

Sincerely,



NANCY J. DRAGANI  
Chair

## **DESCRIPTION OF THE URSB**



## DESCRIPTION OF THE URSB

The Utility Radiological Safety Board (URSB) of Ohio was established by the Ohio General Assembly as part of Amended Substitute House Bill 111 in July of 1989 and later revised by Amended Substitute House Bill 215 in June 1997. The Board's purpose is to develop a comprehensive policy for the State regarding nuclear power safety. The Board's objectives are to promote safe, reliable, and economical power; establish a memorandum of understanding with the Nuclear Regulatory Commission (NRC) and the State; and recommend policies and practices that promote safety, performance, emergency preparedness, and public health standards that are designed to meet the State's needs.

The URSB membership consists of six state agencies: the Ohio Departments of Agriculture, Commerce, and Health; the Ohio Emergency Management and Environmental Protection Agencies; and the Public Utilities Commission of Ohio.

The URSB has a Working Group comprised of member agencies' staff to support the Board and a Citizens Advisory Council (CAC), which provides the Board with citizen concerns. Board meetings are held quarterly at the offices of the Ohio Emergency Management Agency at 2855 West Dublin-Granville Road, Columbus, Ohio. The meetings are open to the public.

To find out more information concerning the URSB and its members, please refer to the URSB homepage at <http://www.ursb.ohio.gov/index.stm> or contact the URSB Secretary at (614) 889-7150. The Board members for SFY13 and their respective designees are listed below:

Ohio Department of Agriculture  
Mr. David T. Daniels, Director  
Mr. Charles Kirchner, Designee

Ohio Emergency Management Agency  
Ms. Nancy Dragani, Director  
Ms. Sima Merick, Designee

Ohio Department of Commerce  
Mr. Andre T. Porter, Director  
Mr. Dean Jagger, Designee

Ohio Environmental Protection Agency  
Mr. Scott J. Nally, Director  
Mr. Kevin Clouse, Designee

Ohio Department of Health  
Dr. Theodore E. Wymyslo, M.D., Director  
Mr. Michael J. Snee, Designee

Public Utilities Commission of Ohio  
Mr. Todd A. Snitchler, Chairman  
Mr. Daniel Fisher, Designee

## **URSB ACTIONS AND ACTIVITIES**



SUMMARY OF URSB ACTIONS AND ACTIVITIES:

Statutory Meetings:

During FY 2013 the URSB held four statutory meetings: July 9, 2012, October 9, 2012, January 14, 2013 and April 15, 2013.

Additional Details from these meetings are available by contacting the URSB Secretary at 614-889-7150

**July 9, 2012 Statutory Meeting:**

UTILITY RADIOLOGICAL SAFETY BOARD

MEETING MINUTES

JULY 9, 2012

Mr. Michael Snee, Ohio Department of Health, called to order the July 9, 2012 meeting of the Utility Radiological Safety Board at 10:34 a.m. at the Davis-Besse Nuclear Power Station Administrative Building.

The first order of business from the agenda was the roll call taken by Ms. Tess Ocean.

I. ROLL CALL

EMERGENCY MANAGEMENT AGENCY  
DEPARTMENT OF HEALTH  
DEPARTMENT OF AGRICULTURE  
PUBLIC UTILITIES COMMISSION  
ENVIRONMENTAL PROTECTION AGENCY  
DEPARTMENT OF COMMERCE

MS. SIMA MERICK  
MR. MICHAEL SNEE  
MR. CHUCK KIRCHNER  
MR. DAN FISHER  
MR. KEVIN CLOUSE  
MR. DEAN JAGGER

II. ANNOUNCEMENTS

Logistics of the tour of the plant following the URSB statutory meeting were discussed.

III. READING OF THE APRIL 9, 2012 MINUTES (ADOPTED)

The board dispensed with the reading of the April 9, 2012. Mr. Michael Snee, Ohio Department of Health, asked for additions, corrections or deletions to the minutes. Mr. Snee asked for a motion to approve the minutes. Mr. Chuck Kirchner, Ohio Department of Agriculture moved to adopt the minutes and Mr. Kevin Clouse, Ohio Environmental Protection Agency seconded. The motion carried.

IV. OLD BUSINESS

A. Updated Status of the URSB Initiative

Mr. Michael Bear of the Ohio Emergency Management Agency and Mr. Stephen Helmer of the Ohio Department of Health reviewed the URSB Initiatives. Topics briefed included the Beaver Valley Nuclear Power Station Evaluated Exercise, the Perry Nuclear Power Plant Cross-Cutting

Human Performance Issues, After-Action Plan Activities, IZRRAG Activities, Reactor Oversight Program for Davis-Besse Nuclear Power Station, Beaver Valley Power Station and the Perry Nuclear Power Plant, Technology, State Dose Assessment, KI, REP Guidance and NRC Rulemaking, Procedural Review and the Joint Inspection Observation Program.

B. Midwestern Committee Report

Mr. Snee provided a brief over of the Midwestern Committee. He reported that the Midwestern Committee Council of State Governments looks at transportation issues regarding radioactive material across Midwestern states. Over the years, one of the big concerns has been the coordination of the transportation of transuranic shipments going out to waste isolation sites and projects such as Carlsbad, New Mexico. Routes are currently shut down through Ohio. Three sites in the country have any transuranic waste locations. If you are interested in information, please contact Mr. Snee or visit the Council of State Governments website.

V. NEW BUSINESS

A. URSB WG Quarterly Reports

Each of the participating URSB agencies provided a report of their respective state agency activities. Each agency's report is available upon request from the URSB Secretary.

B. Nuclear Regulatory Commission

Mr. Allan Barker of the Nuclear Regulatory Commission reported on the following topics: the oversight of the First Energy Nuclear Operating Company Plants and the Cross-Cutting Issue process. Mr. Barker's report is attached at the end of the Board-approved minutes.

The NRC reports that temporary instructions have been issued. These are procedures that are used to address more immediate issues across the United States. One instruction deals with seismic issues and the other instruction deals with flooding. Both are available on the NRC website.

C. Utility Reports

Mr. Ricky Collings, Supervisor of Fleet Emergency Preparedness provided an update on the Beaver Valley Power Station, the Davis-Besse Nuclear Power Station, Perry Nuclear Power Plant and FENOC. Specific topics of discussion included: the Beaver Valley Power Station Outage and Evaluated Exercise, the Davis-Besse Nuclear Power Station Shield Building Cracking-Results of the Bore Hole Examination during Refueling Outage and the Status of the License Renewal, the Perry Nuclear Power Plant Status of Cross-Cutting Areas of Human Performance and Reasons for Delaying the NRC June 2012 Confirmatory Inspection and Fuel Leakage and the FENOC Status of the MIDAS program, the Status of the new Emergency Operations Facilities and the Response to NRC's March 12, 2012 Letter Regarding Fukushima Recommendations. Mr. Collings report is attached at the end of the Board-approved minutes.

VI. MISCELLANEOUS

A. Location of the next URSB Meeting

The next URSB Statutory meeting will be held on October 9, 2012 in Columbiana County. Mr. Bear will try and coordinate with Mr. Darren Dodson, director of Columbiana County EMA.

B. Questions from the Public

There were no questions from the public.

Mr. Dwaine Warren of FEMA attended the meeting. He stated that representatives from FEMA are planning on attending the URSB meetings on a more regular basis. He stated that he oversees the southern part of the region, including Ohio, Indiana, Michigan and Illinois.

Mr. Warren commented that the ingestion pathway training went very well from feedback received.

Mr. Warren reported that the Radiological Accident and Assessment Course is available to be given in the field. The radiological program planning course will be undergoing changes. There are more classes that are pending.

The REP Program Manual roll-out roadshow went well and there was good attendance at all the sessions.

There are also changes with the hostile action based exercises and ingestion pathway cycle. There is an exercise at Palisades in Illinois in October and if anyone would like to observe at one of the other locations, please contact Mr. Bear. There will be an exercise at Fermi in August and if anyone is interested in observing this exercise, please contact Mr. Bear.

VII. ADJOURNMENT

Mr. Snee, Ohio Department of Health, asked if there was a motion to adjourn the meeting. Mr. Dan Fisher, Public Utilities Commission of Ohio, motioned to adjourn the meeting and Mr. Clouse, Ohio Environmental Protection Agency, seconded. The motion carried. The meeting was adjourned at 12:03 p.m.

**October 9, 2012 Statutory Meeting Summary:**

UTILITY RADIOLOGICAL SAFETY BOARD

MEETING MINUTES

OCTOBER 9, 2012

Mr. Michael Snee, Ohio Department of Health, called to order the October 9, 2012 meeting of the Utility Radiological Safety Board at 10:53 a.m. at the Columbiana County Emergency Management Agency.

The first order of business from the agenda was the roll call taken by Tess Ocean.

I. ROLL CALL

EMERGENCY MANAGEMENT AGENCY  
DEPARTMENT OF HEALTH  
DEPARTMENT OF AGRICULTURE  
PUBLIC UTILITIES COMMISSION  
ENVIRONMENTAL PROTECTION AGENCY  
DEPARTMENT OF COMMERCE

MS. SIMA MERICK  
MR. MICHAEL SNEE  
MR. CHUCK KIRCHNER  
MR. DAN FISHER  
MR. KEVIN CLOUSE  
NO REPRESENTATIVE

II. ANNOUNCEMENTS

There were no announcements for the meeting.

III. READING OF THE JULY 9, 2012 MINUTES (ADOPTED)

The board dispensed with the reading of the July 9, 2012 Minutes. Mr. Michael Snee, Ohio Department of Health, asked for additions, corrections or deletions to the minutes. Mr. Snee asked for a motion to approve the minutes. Mr. Dan Fisher, Public Utilities Commission, moved to adopt the minutes and Mr. Chuck Kirchner seconded. The motion carried.

IV. OLD BUSINESS

A. Updated Status of the URSB Initiatives

Mr. Michael Bear of the Ohio Emergency Management Agency and Mr. Stephen Helmer of the Ohio Department of Health, reviewed the URSB Initiatives. Topics briefed included the Beaver Valley Nuclear Power Station Evaluated Exercise, the Perry Nuclear Power Plant Evaluated Exercise, the Perry Nuclear Power Plant Cross-Cutting Human Performance Issues, After Action Plan Activities, IZRRAG Activities, Reactor Oversight Program, Technology, State Dose Assessment, KI, REP Guidance and the Joint Inspection Observation Program.

B. Midwestern Committee Report

Mr. Michael Snee provided the Midwestern Committee report. There have been no shipments through Ohio. Most of the transuranic waste has been shipped out and there is nothing on the horizon. There might be shipments from Piketon in the future. The fall meeting will be held in Omaha in November.

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V. NEW BUSINESS

A. New Ohio EMA Designee

Ms. Sima Merick was introduced as the new Ohio EMA designee, as Mr. Mel House, is now the Director of Emergency Medical Services. Ms. Merick is the Assistant Director at Ohio EMA.

B. URSB WG Quarterly Reports

Each of the participating URSB agencies provided a report of their respective state agency activities. Each agency's report is available upon request from the URSB Secretary.

C. URSB Annual Report

Mr. Michael Snee, Ohio Department of Health, asked for a motion to approve the URSB Annual Report. Mr. Chuck Kirchner of the Ohio Department of Agriculture motioned to approve the Annual Report and Mr. Kevin Clouse of the Ohio Environmental Protection Agency seconded the motion. The motion carried. A final copy will be sent to all member agencies.

D. Nuclear Regulatory Commission

Mr. Allan Barker of the Nuclear Regulatory Commission reported on the following topics: Oversight of First Energy Nuclear Operating Company Plants, Reintegration of Security into Reactor Oversight Process, NRC Updates on Post-Fukushima Accident Guidance, and Effects of Waste Confidence Rule Court Finding on Licensing. Mr. Barker's report is attached at the end of the Board-approved minutes.

E. Utility Reports

Mr. Ricky Collings, Supervisor of Fleet Emergency Preparedness of the First Energy Nuclear Operating Company provide the utility report on the following topics: the Beaver Valley Power Station Unit 2 Outage Update and the Evacuation Time Estimate, the Davis-Besse Nuclear Power Station Status of License Renewal, the Perry Nuclear Power Plant 2012 Evaluated Exercise and the Status of Cross-Cutting Area of Human Performance, and the FENOC Status of the MIDAS Program and the Status of the new Emergency Operations Facilities. Mr. Collings report is attached at the end of the Board approved minutes.

VI. MISCELLANEOUS

A. Dates of 2013 URSB Meetings

The dates of the next 2013 URSB meetings are January 14, April 8, July 8 and October 7.

B. Location of the next URSB meeting

The first URSB meeting of the year will take place at the EOC/JDF building and the location of future meetings will be discussed at that time.

C. Questions from the Public

There were no questions from the public.

VII. ADJOURNMENT

Mr. Michael Snee of the Ohio Department of Health asked if there was a motion to adjourn the meeting. Mr. Chuck Kirchner of the Ohio Department of Agriculture motioned to adjourn the meeting and Mr. Dan Fisher of the Public Utilities Commission seconded. The motion carried. The meeting was adjourned at 12:08 p.m.

**January 14, 2013 URSB Statutory Meeting Summary:**

UTILITY RADIOLOGICAL SAFETY BOARD

MEETING MINUTES

JANUARY 14, 2013

Ms. Nancy Dragani, Ohio Emergency Management Agency, called to order the January 14, 2013 meeting of the Utility Radiological Safety Board at 1:32 p.m. at the Ohio Emergency Management Agency.

The first order of business from the agenda was the roll call taken by Tess Ocean.

Guests: Mr. Jim Thomas, Director of Security and EP at First Energy Nuclear Operating Company, Mr. Dave Imlay, Director of Performance Improvement for DBNPS, Mr. Jim Vetter, Manager of Emergency Response at DBNPS and Mr. Ricky Collings, Supervisor of Fleet Emergency Preparedness for First Energy Nuclear Operating Company.

I. ROLL CALL

EMERGENCY MANAGEMENT AGENCY  
DEPARTMENT OF HEALTH  
DEPARTMENT OF AGRICULTURE  
PUBLIC UTILITIES COMMISSION  
ENVIRONMENTAL PROTECTION AGENCY  
DEPARTMENT OF COMMERCE

MS. NANCY DRAGANI  
MR. STEPHEN HELMER  
MR. CHUCK KIRCHNER  
MR. DAN FISHER  
MR. KEVIN CLOUSE  
MR. JOHN SHARIER

A quorum was declared.

II. READING OF THE OCTOBER 9, 2012 MINUTES (ADOPTED)

The board dispensed with the reading of the October 9, 2012 Minutes. Ms. Nancy Dragani, Ohio Emergency Management Agency, asked for additions, corrections or deletions to the minutes. Ms. Dragani asked for a motion to approve the minutes. Mr. Dan Fisher, Public Utilities Commission, moved to adopt the minutes and Mr. Chuck Kirchner, Ohio Department of Agriculture, seconded. The motion carried.

III. OLD BUSINESS

A. Updated Status of the URSB Initiatives

Mr. Michael Bear of the Ohio Emergency Management Agency and Mr. Stephen Helmer of the Ohio Department of Health reviewed the URSB Initiatives. Topics briefed included the Perry Nuclear Power Plant Evaluated Exercise, the Perry Nuclear Power Plant Cross-Cutting Human Performance Issues, After-Action Plan Activities, Reactor Oversight Program, Technology, State Dose Assessment, KI, REP Guidance and NRC Rulemaking, Performance and the Joint Inspection Observation Program.

Ms. Dragani asked if we have received any answers from the questions and issues that were brought up during the FEMA REP Guidance meetings that took place in the three power plant counties last year. Mr. Bear stated we have not received any feedback as of yet, but he will have Mr. Pete Hill inquire about this at the REP scheduling conference coming up.

B. Midwestern Committee Report

Mr. Stephen Helmer, Ohio Department of Health, reported that there were no updates from the Midwestern Committee.

IV. NEW BUSINESS

A. Proposed New Working Group Reporting Format

Ms. Pam Hintz, Ohio Department of Health, presented to the Board the proposed new working group reporting format. In an effort to define what an initiative is and to determine what the Board wants to see as their product, the group came up with five main topics from the mission statement-Performance, Reportables, Information Exchange, Public Health and Safety. The current initiatives would fit into all of these categories. The Initiatives will be transferred into Snapshots, which have more detailed information and include who is responsible for the information contained in the snapshot. The reason for the proposed changes is to remove some of the lengthy narratives and to have a better idea of what is being accomplished. These will be sent to the URSB Statutory members on a monthly basis. A tracking spreadsheet will be given out at the Statutory meetings, which is an overview of the snapshots in an easy- to-follow format. Colors are associated with these snapshots: black indicates not started, green indicated completed, red indicates overdue and yellow indicates in process.

Mr. Helmer suggested that action items at NEPAC be added to the snapshots. He stated it is not always clear what the status is on the initiatives, so this might be a good way to better track the system. He believes that there should be more interaction between the Board and the Working Group.

Director Dragani stated that it may be time for the Board itself to have a discussion about what the function and role of the Board is. In recent memory, the Board has not given the Working Group an initiative to work on. Currently, the Board is mostly reactive and is not as functional and productive as we can be. It was suggested to schedule an hour for the Board to discuss the function and role of the URSB and to look at legislation and identify what we bring to these particular areas. The Board is passive and she believes the Board could be more engaged.

The Board agreed to move forward with the URSB Working group's proposal.

B. URSB WG Quarterly Reports

Each of the participating URSB agencies provided a report of their respective state agency activities. The Ohio Emergency Management Agency, the Ohio Environmental Protection

Agency and the Ohio Department of Health all provided quarterly reports of their Each agency's report is available upon request from the URSB Secretary.

### C. Nuclear Regulatory Commission

Mr. Allan Barker of the Nuclear Regulatory Commission reported on the following topics: the oversight of First Energy Nuclear Operating Company Plants and the PNPP Dry Cask Storage of Spent Fuel.

Director Dragani asked what type of security issues are occurring at the plants, as all three plants received a greater-than-green security finding. Mr. Barker replied that while he cannot give details, when the issue is identified the inspector will ensure that corrective measures will take place at that point and the issue will be immediately addressed. She also asked that when security issues are identified, if any notification is sent to Ohio Homeland Security. Mr. Jim Thomas from FENOC replied that it depends on the issue. In these cases, none of the issues indicated a vulnerability that was necessary to notify Ohio Homeland Security (the DBNPS issue was corrected within minutes), however, there is a process in place to elevate these issues if necessary.

Mr. Bear asked that assuming the ongoing radiation protection issue with PNPP does not get corrected will this eventually be escalated within the NRC? Mr. Barker replied that depends on the NRC inspection, but it is an issue that will be focused on. The 95002 is a team inspection and there were attributes in the inspection that could not be completed. These issues will have to be re-examined. Depending on where PNPP is placed in the matrix will drive the next supplemental inspection. The 95002 has not determined the status at this time, with more action required to be taken. From this point forward, the focus will be there. At the last URSB Statutory meeting, the Assessment letter came out that talked about the focus area of radiation protection, which was unique to focus in that assessment letter. From a process standpoint for the NRC, it was within process and following the action matrix was correct with the appropriate level of supplemental inspection. The determination will come from the NRC as it is still in process and that is yet to come, from which he understands, will be soon.

Mr. Helmer asked a question on the timeliness of the reactor oversight process. Is the inspection process taking so long because the events are spread out or is this standard pace? Mr. Barker replied that he has been on many team inspections and as you go higher in the level of supplemental inspections, it takes time to assemble a team this large-this involves people in the region and from headquarters. The 95002 assembly is much more involved than a 95001. The oversight is still there while the inspection team is being assembled. The process drives the level of oversight.

Mr. Bear commented that all three plants have a greater-than-green security finding. Is this a fleet wide problem? Mr. Barker said that he had not heard of a fleet-wide problem, from his standpoint in the agency, but he might not necessarily be privy to that type of the information.

Mr. Helmer stated that he read that BVPS is looking at dry-cask storage. The FENOC representative stated that they are doing a project to develop an independent fuel storage system on-site.

Director Dragani asked for clarification regarding the operators failing the re-qualification exam at BVPS as reported in Mr.' Barker's report to the board. He stated that greater than 10% of reactor operators who failed the bi-annual written requalification examination, subsequently failed the remediation examination. When an operator fails the requalification exam, you are removed from operator duties and then you go into a remediation.

Mr. Barker stated that DBNPS has been selected for NRC participation at the exercise on May 14<sup>th</sup>, so either he or Mr. Herral Logaras will be attending.

#### D. Utility Reports

Mr. Ricky Collings, Supervisor of Fleet Emergency Preparedness of the First Energy Nuclear Operating Company, provided the utility report on the following topics: Beaver Valley Power Station, Davis-Besse Nuclear Power Station Decay Heat Pumps, the Perry Nuclear Power Plant Decay Heat Pumps, the Perry Nuclear Power Plant Dry Cask Storage of Spent Fuel, the Outcome of the 95002 Inspection, the After-the-Fact Emergency Condition (Unusual Event) and the November 28, 2012 Unusual Event and the FENOC Replacement of Director Notification Lines.

Mr. Jim Thomas of FENOC stated that the PNPP and the BVPS security finding were both licensee identified and were both regarding a physical security measure. In 2010, there was a change on how FENOC dealt with physical security and a change in the NEI clarification documents on physical security. FENOC went back in 2011 and challenged themselves of how they were implementing that and the technology that they were using did not meet the change. FENOC reported this to the NRC and they did a special inspection and found a similar issue at BVPS. There was no vulnerability to the public. The DBNPS security issue was entirely different and identified by an NRC inspector during a regular baseline inspection. FENOC engaged both NRC Regions and appropriate utility personnel to address these problems.

### V. MISCELLANEOUS

#### A. Location of the URSB Meeting

In 2012, the URSB meetings were held in the respective nuclear power plant counties. Unfortunately, there was little public participation at these meetings. The Board discussed the issue and decided that possibly one meeting per year could be held in the counties, or holding the meetings in the counties every other year. More of an effort will be made to make the public aware of the meetings when they are held in the counties. The Board will revisit the idea later in the year, but for now, meetings will be held at the State Emergency Operations Center/Joint Dispatch facility and we will look at one away meeting per year. Mr. Collings stated that if we want to tour the plants, FENOC could support that effort in conjunction with a meeting in the field.

#### B. Rescheduling of April Meeting

The April 8<sup>th</sup> meeting of the URSB will be moved to April 15<sup>th</sup>, as the week of April 8<sup>th</sup> is the week of the National REP conference.

#### C. Questions from Public

There were no questions from the public.

#### D. Miscellaneous

Ms. Dragani consulted with Ms. Hilary Damaser, who provides legal support for the Board and if the Board met separately from a regular Board meeting, a notice would have to go out to the public, so instead, time will be built into the next meeting to discuss the role of the URSB and ways that the Board can be more directional and engage with the Working Group.

Ms. Dragani also noted that there will be training on Wednesday, January 17<sup>th</sup> of this week, a representative from FEMA Region V will be providing an IND planning training session. An IND plan was created for Chicago and the planners did a good job of thinking about cascading effects, such as restoration of water supply in terms of decontamination. Some priorities had to be reprioritized as the planners went through the process. That same afternoon, the Great Lakes Hazard Coalition is having a webinar/TTX on an IND event. This TTX will be 100% web-based and both will take place in Room 204 at EMA.

An 8-day exercise will be held in August, Vibrant Response, with the state of Ohio, Army North, NorthCom and Air Force North that is focused on an IND attack in an urban area in Ohio, probably in Columbus. The state of Ohio will have a large footprint in this exercise. FEMA and NorthCom are excited about Ohio fully participating in the exercise. We will take about 20 people from the EOC and involve ESF partners and the IZRRAG. This is a great opportunity to push our federal partners and for us to stretch on our response. Ms. Dragani will provide the one page memo that was sent to EMA employees regarding Vibrant Response to Mr. Bear to distribute. Funding for this trip will be paid out of HS grant money, so we will look for a way to off-set the cost.

FENOC grant negotiations will take place in early-mid February. Please send grant requests to FENOC by the end of January. EMA will coordinate the details of the negotiations.

## VI. ADJOURNMENT

Ms. Nancy Dragani, Ohio Emergency Management Agency, asked if there was a motion to adjourn the meeting. Mr. Chuck Kirchner, Ohio Department of Agriculture, made a motion to adjourn and Mr. Dan Fisher seconded the motion. The meeting was adjourned.

**April 15, 2013 URSB Statutory Meeting Summary:**

UTILITY RADIOLOGICAL SAFETY BOARD

MEETING MINUTES

APRIL 15, 2013

Ms. Nancy Dragani, Ohio Emergency Management Agency, called to order the April 15, 2013 meeting of the Utility Radiological Safety Board at 1:32 p.m. at the Ohio Emergency Management Agency.

The first order of business from the agenda was the roll call taken by Tess Ocean.

Guests: Mr. Ricky Collings, Supervisor of Fleet Emergency Preparedness for First Energy Nuclear Operating Company and Mr. Dan Murray,

I. ROLL CALL

EMERGENCY MANAGEMENT AGENCY  
DEPARTMENT OF HEALTH  
DEPARTMENT OF AGRICULTURE  
PUBLIC UTILITIES COMMISSION  
ENVIRONMENTAL PROTECTION AGENCY  
DEPARTMENT OF COMMERCE

MS. NANCY DRAGANI  
MR. MICHAEL SNEE  
MR. CHUCK KIRCHNER  
MR. DAN FISHER  
MR. KEVIN CLOUSE  
MR. DEAN JAGGER

A quorum was declared.

II. READING OF THE JANUARY 14, 2013 MINUTES (ADOPTED)

The board dispensed with the reading of the January 14, 2013 Minutes. Ms. Nancy Dragani, Ohio Emergency Management Agency, asked for additions, corrections or deletions to the minutes. Ms. Dragani asked for a motion to approve the minutes. Mr. Chuck Kirchner, Ohio Department of Agriculture moved to adopt the minutes and Mr. Kevin Clouse, Ohio Environmental Protection Agency, seconded. The motion carried.

III. OLD BUSINESS

C. URSB Working Group Report

Mr. Michael Bear, Ohio Emergency Management Agency, reviewed the URSB Snapshot spreadsheet, which is a roll-up of the snapshots that are sent out to the URSB Statutory members monthly after the URSB Working group meetings.

D. Midwestern Committee Report

Mr. Michael Snee, Ohio Department of Health, reported that there was not an update from the Midwestern Committee. The National Transportation Safety Forum meeting will take place in Buffalo next month. One topic that will be discussed at the meeting is the plan for spent fuel transport in the future.

IV. NEW BUSINESS

A. URSB WG Quarterly Reports

Each of the participating URSB agencies provided a report of their respective state agency activities. The Ohio Emergency Management Agency, the Ohio Environmental Protection Agency, the Ohio Department of Health and the Ohio Department of Agriculture all provided quarterly reports. Each agency's report is available on request from the URSB Secretary.

B. New Working Group Reporting Format

Ms. Dragani asked for feedback on the new Working Group reporting format.

C. Role of URSB and Relationship to the Working Group

The Board had a discussion regarding the role of the URSB and the relationship to the Working Group. The Working Group will bring up important issues in the Statutory meeting-this will be a standing item on the agenda. The Statutory Board members will then give the Working Group information on how to respond. Mr. Snee stated that if the Working Group identifies an issue that needs to be responded to quickly, do not wait for the next Statutory meeting to bring up the issue.

D. Nuclear Regulatory Commission

Mr. Allan Barker of the Nuclear Regulatory Commission reported on the following topics: Oversight of First Energy Nuclear Operating Company Plants, PNPP Dry Cask Storage of Spent Fuel, and Risk-Informed and Performance-Based Oversight. Mr. Barker's report is attached at the end of the Board-approved minutes.

#### E. Federal Emergency Management Agency

Mr. Dwaine Warren of the Federal Emergency Management Agency reported that the PNPP Final Exercise Report was delayed as 19/22 FEMA Radiological Emergency Preparedness staffs were deployed in response to Hurricane Sandy, therefore the report was not as timely as usual. Reports should now be back on schedule.

The Hostile Action-Based exercise toolkit was just finalized. Mr. Warren will forward to Mr. Bear.

FEMA REP personnel are preparing for many upcoming exercises, including Clinton in March, DBNPS in May and DC Cook in June, which will be the first HAB exercise taking place.

He also reported that the Kewaunee Power Station in Wisconsin is shutting down in June. There will still be spent fuel storage on site. There will be a public meeting regarding decommissioning.

Mr. Warren stated that FEMA will be participating in the DBNPS exercises, with an FCO and representatives from the IMAT team. The day after the exercises, there will be a TTX with the FRMAC, DOE and FEMA representatives to discuss the recovery and mitigation process after a nuclear incident.

FEMA will also have an IMAT team participating in Vibrant Response.

#### F. Utility Reports

Mr. Ricky Collings of the First Energy Nuclear Operating Company provided the utility report on the following topics: Beaver Valley Power Station Hostile Action based Exercise Preparations, New Site Vice president, Davis-Besse Nuclear Power Station April 2, 2013 Dry Run Results, E-Data Status, MIDAS Status, Steam Generator Replacement project; DBNPS vs. San Onofre, and the Perry Nuclear Power Plant January 22, 2013 Reactor Scram and Outage status and the FENOC Media Orientation and Training Program. Mr. Collings report is attached at the end of the Board-approved minutes.

### V. MISCELLANEOUS

#### A. Questions from the Public

There were no questions from the public.

### VI. ADJOURNMENT

Ms. Nancy Dragani, Ohio Emergency Management Agency, asked if there was a motion to adjourn the meeting. Mr. Kevin Clouse, Ohio Environmental Protection Agency, made a motion to adjourn and Mr. Dan Fisher, Public Utilities Commission of Ohio, seconded the motion. The meeting was adjourned.

# URSB JOINT INSPECTION OBSERVATION PROGRAM



## URSB JOINT INSPECTION OBSERVATION PROGRAM

The Joint Inspection Observation Program (JIOP) was implemented by the Board in April 1991 by adopting URSB Resolution 91-002, “Resolution Adopting General Agreement Between the U.S. Nuclear Regulatory Commission and Ohio’s State Liaison Officer for State Observations of NRC Inspections of Nuclear Power Plants”. The agreement allows URSB JIOP members to observe NRC inspections of PNPP and DBNPS. Under “adjacent state observation” status, a second agreement with NRC Region I allows JIOP participants to observe NRC inspections at the BVPS. A “guidelines document” has been developed setting the conditions and procedures for member agencies’ participation in the program. This document includes the goals and objectives of the JIOP. The URSB JIOP Goals and Objectives are delineated below.

In FY13 the URSB JIOP participants observed eight NRC inspections. For each observation a report is generated and forwarded to the NRC for its review and comment. The table at the end of this section lists these reports for the past year. All JIOP reports are available to the public by request to the URSB Secretary. Requests may be made by telephone at (614) 889-7150 or in writing to:

URSB Secretary  
The Utility Radiological Safety Board  
2855 West Dublin Granville Road  
Columbus, Ohio 43235-2206

### *URSB JIOP Goals and Objectives*

To observe NRC inspections at Ohio nuclear power facilities and BVPS.

- To participate with the NRC to observe inspections.
- To communicate to the public, URSB member agencies, and interested parties first-hand information obtained by observing inspections, in accordance with NRC protocol.
- To communicate with the NRC resident, regional, and national inspectors.

To raise issues of health, safety, and economic concerns with the Board.

- To observe NRC inspections and obtain timely, first-hand information which will assist in formulating state positions on public health, safety, performance, and/or cost issues.
- To maintain a historical database to monitor the economical production and safe operation of nuclear energy.

To provide the URSB with reports that identify the number of inspections observed during the quarter, summarize observation results and recommendation, and address comments made by the NRC and the public.

**JIOP INSPECTIONS FY2013 (July 1, 2012 to June 30, 2013)**

<b>JIOP Number</b>	<b>Date(s)</b>	<b>Inspection</b>	<b>Agency</b>
2012-PNPP-04	September 14, 2012	Debrief of 95002 Special Inspection	ODH
2012-PNPP-05	October 22-26, 2012	Performance Indicator Verification	ODH
2012-DBNPS-02	November 26-30, 2012	Occupational ALARA Planning & Controls, and Performance Indicator Verification	ODH
2012-PNPP-06	December 10-14, 2012	Radiological Hazard Assessment and Exposure Control, Performance Indicator Verification, and Industry Groundwater Protection voluntary	ODH
2013-DBNPS-01	Cancelled 1/7/13 @1pm	Radiological Monitoring and Instrumentation Inspection	ODH
2013-BVPS-01	January 28-31, 2013	Radiological Hazard Assessment and Exposure Controls and occupational ALARA Planning and Controls	ODH
2013-DBNPS-02	February 25-March 1, 2013	In-Plant Airborne Radioactivity Control and Mitigation and Occupational Dose Assessment	ODH
2013-PNPP-01	March 18-, 2013	Radiological Hazard Assessment & Exposure Controls	ODH
2013-PNPP-02	April 15-19, 2013	Occupational ALARA and Controls and In-Plant Airborne Radioactivity Control and Mitigation Inspection	ODH

# FINANCIAL REPORT



DESCRIPTION	SFY09	SFY10	SFY11	SFY12	SFY13
<i>Appropriations</i>					
Emergency Management	\$1,374,837	\$1,319,926	\$1,381,558	\$1,329,226	\$1,415,945
Health	\$835,500	\$850,000	\$850,000	\$988,079	\$984,700
Environmental Protection	\$257,938	\$285,982	\$285,982	\$307,031	\$300,571
Agriculture	\$134,389	\$121,022	\$123,048	\$123,570	\$116,988
Commerce♦					
Public Utilities Commission♦					
<i>Total Appropriation</i>	\$2,602,664	\$2,576,930	\$2,640,588	\$2,747,906	\$2,818,204
<i>Expenditures</i>					
Emergency Management	\$1,337,042	\$1,028,826	\$995,249	\$1,237,811	\$1,154,488
Health	\$836,042	\$850,000	\$850,000	\$988,080	\$984,700
Environmental Protection	\$235,179	\$254,143	\$259,888	\$268,363	\$279,826
Agriculture	\$113,352	\$86,105	\$103,696	\$120,674	\$115,069
Commerce♦					
Public Utilities Commission♦					
<b>Total Expense (Year-end Balance)</b>	\$2,521,615	\$2,219,074	\$2,208,833	\$2,614,928	\$2,534,083

♦ Denotes agency does not receive funding from FENOC

## **AGENCY OVERVIEWS**



## OHIO DEPARTMENT OF AGRICULTURE

The Ohio Revised Code directs the Ohio Department of Agriculture (ODA) to protect the food supply as it relates to Food Safety and Animal Health. Additionally, the Code of Federal Regulations directs ODA to promote public safety involving nuclear power plant operations. ODA, in coordination with the United States Department of Agriculture (USDA) and the Ohio State University Cooperative Extension Service, estimates damage to crops and livestock from radiation incidents.

ODA maintains emergency response plans and monitoring programs in order to respond to and mitigate the effects of nuclear incidents. ODA coordinates procedures for the protection and recovery of livestock, poultry, crops, forage and browse plants from radiation effects. ODA reviews and maintains embargo and quarantine procedures for all affected food, agricultural commodities, and livestock within an affected area and for possible outlets for contaminated products.

If an incident occurs, ODA assesses and deals with problems impacting agriculture and its related industries. ODA, in coordination with the Ingestion Zone Recovery and Re-entry Advisory Group (IZRRAG) and the counties involved, determines affected target groups including farmers, food producers, distributors and processors in the ingestion exposure pathway and gives them emergency response information.

### **Nuclear Power Plant Emergency Planning**

ODA attends monthly Utility Radiological Safety Board (URSB) Working Group meetings, Nuclear Emergency Planning Advisory Committee (NEPAC) meetings and After Action Group meetings.

ODA continues to participate in the scheduled IZRRAG meetings to review and revise the Ohio Plan for “Response to Radiation Emergencies at Commercial Nuclear Power Plants” procedures and advisories in preparation for nuclear power plant training, exercises or related emergencies.

### **Other Related Items**

The Ohio Agriculture Brochure was reviewed and updated in September 2012, and was distributed by ODA. The brochure is distributed to Ohio food producers, processors and distributors located within a ten mile radius of a nuclear power plant, and the brochure is made available to counties within a fifty mile radius of those plants. The brochure is also available electronically on the Ohio Department of Agriculture website and via links on URSB member agency sites.

ODA participated in the After Hour Graded State Exercise held in conjunction with the Beaver Valley Nuclear Power Plant Dry Run Exercise held on May 22, 2012. ODA participated in the FEMA Ingestion Zone Training and Tabletop Exercise held at OEMA on June 28, 2012. And ODA participated in the IZRRAG Graded Exercise held on October 2-3, 2012 for the Perry Nuclear Power Plant.

## OHIO DEPARTMENT OF COMMERCE DIVISION OF INDUSTRIAL COMPLIANCE

The overall mission of the Ohio Department of Commerce (ODC), Division of Industrial Compliance is to serve Ohio by promoting the safety and soundness of our customer industries through an innovative and effective team of highly motivated employees. The Ohio Department of Commerce is one of the state's chief regulatory agencies. Commerce is different from most state agencies, since it must operate like a private business enterprise as opposed to being funded primarily by Ohio's General Revenue Fund dollars. The agency exists on the fees and assessments from the industries that it regulates.

### *URSB Involvement*

ODC is a member of the Ohio Utility Radiological Safety Board (URSB). ODC is committed to help ensure nuclear safety for the citizens of Ohio by monitoring the Davis-Besse and Perry Nuclear Power Plants quality assurance programs.

### **Agency Specific Activities**

During SFY13, ODC continually monitored the Davis-Besse and Perry Nuclear Power Plants In-service Inspection Program of Nuclear Power Plant Components. Chapter 4101:4-5 of the Ohio Administrative Code mandates this monitoring. In this chapter it refers to Section XI, Rules for In-service Inspection of Nuclear Power Plant Components, of the ASME Boiler and Pressure Vessel Code. This Section provides rules for the examination, testing, and inspection of components and systems in a nuclear power plant.

The rules of this Section constitute requirements to maintain the nuclear power plant and to return the plant to service, following plant outages, in a safe and expeditious manner. The rules require a mandatory program of examinations, testing, and inspections to evidence adequate safety. The rules also stipulate duties of the Authorized Nuclear In-service Inspector to verify that the mandatory program has been completed, permitting the plant to return to service in an expeditious manner.

The Owner of the nuclear power plant is assigned the responsibilities to develop a program, which will demonstrate conformance to the requirements of this Section. These responsibilities include: (a) Provision of access in the design and arrangement of the plant to conduct the examination and tests; (b) development of plans and schedules, including detailed examination and testing procedures for filing with the enforcement and regulatory authorities having jurisdiction at the plant site; (c) conduct of the program of examination and tests, system leakage and hydrostatic pressure tests, as well as in-service tests of pumps and valves; (d) recording of the results of the examinations and tests, including corrective actions required and the actions taken.

Duties of the Authorized Nuclear In-service Inspector are assigned by Section XI to verify that the responsibilities of the Owner and the mandatory requirements of this Section are met. Duties performed this past fiscal year by the Authorized Nuclear In-service Inspectors included: (a) witnessing of pressure tests; (b) reviewed nondestructive examination procedures and repair programs; (c) verified that the visual examinations and tests on pumps and valves had been completed and the results recorded.

**Future Activities**

The Department Staff will continue to monitor the In-service Inspection Programs of Davis-Besse and Perry Nuclear Power Plants, and will provide technical assistance to the URSB when questions arise regarding the requirements of ASME Section XI.

## OHIO DEPARTMENT OF HEALTH

The Ohio Department of Health Bureau of Radiation Protection (ODH-BRP) provides support to the URSB through its statutory functions in matters of radiation protection. ODH-BRP is designated the Ohio radiation control agency in accordance with Ohio Revised Code 3748.02. ODH-BRP serves as the lead state agency on all health physics issues within Ohio, monitors the radiological performance of the nuclear power plants, provides emergency response personnel and dose assessment team leadership in the event of a radiological emergency, observes the evaluation of hospitals abilities to treat contaminated injured people, ensures radiological environmental monitoring outside of commercial nuclear power plant boundaries, and provides input for URSB Working Group initiatives.

### **Nuclear Power Plant Emergency Response Exercises**

ODH-BRP staff regularly participates in nuclear power plant exercises. ODH-BRP participated in the October 2012 Perry Nuclear Power Plant (PNPP) evaluated exercises and the May 2013 Davis-Besse Nuclear Power Station (DBNPS) evaluated exercises. ODH-BRP provided key personnel to the Executive Room and Dose Assessment Room, as well as liaison positions with the county, the utility, and the Joint Information Center. In preparation, ODH-BRP staff attended several training sessions, including: an in-house nuclear power response overview, plant-specific systems training, tabletop exercise, and Field Monitoring Team training. This year we continued to rotate ODH-BRP staff members to different positions in an effort to broaden our base of available resources.

MS-1 medical drills are routinely observed by ODH-BRP staff at designated hospitals inside the 10-mile Emergency Planning Zone. In this fiscal year, ODH-BRP staff observed two MS-1 exercises, one at Lake West Medical Center in October 2012, and one at Fremont Memorial Hospital in May 2013. The hospitals were adequately prepared to treat an injured individual contaminated with radioactive material.

### **Utility Radiological Safety Board (URSB) Working Group Activities**

ODH staff attended each of the monthly URSB Working Group meetings, the quarterly Nuclear Emergency Planning Advisory Committee (NEPAC) meetings, and maintained a role in addressing URSB After-Action items. These meetings provide an opportunity to collaborate with URSB member agencies, as well as utility and local government representatives for planning purposes, resolution of common issues, and identification and tracking of corrective actions documented during exercise activities. A new report format was presented and accepted during the fiscal year.

ODH-BRP regularly joins with URSB member agencies and First Energy Nuclear Operating Company (FENOC) in development and training activities. This fiscal year included the development of computer based training for annual training requirements, and attendance at the quarterly BVPS Tri-State meetings.

**Joint Inspection Observation Program (JIOP)**

ODH-BRP staff participates with the United States Nuclear Regulatory Commission (NRC) in the Joint Inspection Observation Program (JIOP) inspections. Eight JIOPs covering fourteen topic areas were completed by ODH staff in the last 12 months. The details of the topics can be found in the URSB Joint Inspection Observation Program Section of this annual report. Findings from these inspections may be found on the NRC website. ODH observations during the inspections did not differ from those of NRC.

**Dose Assessment Activities**

MIDAS was selected to be the new State Dose Assessment Software. This software will be available for use starting in Fiscal Year 2014 for the State. New procedures will need to be developed.

**Radiological Environmental Monitoring Activities**

ODH staff oversees offsite radiological environmental monitoring activities at the Davis-Besse Nuclear Power Station, Perry Nuclear Power Plant, and Beaver Valley Power Station. Ground water, surface water, potable water, bottom sediment, milk, fish, fruit, vegetable and air samples are collected by local health departments (under contract with ODH) and analyzed by the ODH Laboratory. All sample results indicated that radioactivity levels are at or near the Lower Limit of Detection (LLD) and well below the NRC release criteria.

During the past four quarters calibration verifications of each dry gas meter used for air sampling was performed. Equipment replacement included one vacuum pump and three elapsed timers. Routine maintenance continued to be performed on the rotary pump in service at the East Liverpool location and a second rotary pump was placed into service at the Davis-Besse Marsh location. The inventory needs of each contractor continued to be met throughout the year as supplies necessary for the continued collection of samples were provided to the contractors. Environmental contractor audits for fiscal year 2013 were completed.

The draft ODH Annual Environmental Monitoring Report for 2012 is currently under review.

**Other Related Items**

A member of the ODH-BRP staff was able to participate in the FEMA Region V Scheduling Conference in February 2013. The conference featured speakers from FEMA Region V, FEMA Headquarters, NRC, and various agreement states.

A member of the ODH-BRP staff was able to participate in the National Radiological Emergency Preparedness (NREP) Conference held in Austin, TX in April 2013. The conference featured speakers from FEMA, NRC, CRCPD, FDA, DOD/DOE and various states.

A member of the ODH-BRP staff was able to participate in the FEMA Region V Spring Conference in Chicago, IL in June 2013.

## OHIO EMERGENCY MANAGEMENT AGENCY

The Ohio Emergency Management Agency (Ohio EMA) was established under Ohio Revised Code Chapter 5502.22 as a division of the Department of Public Safety. The mission of the Ohio EMA is to coordinate activities to mitigate, prepare for, respond to and recover from disasters. Phases of mitigation, preparedness, response and recovery are designed to minimize effects upon the population caused by all hazards. The agency maintains the State Emergency Operation Center, the data links to nuclear power plants, and multiple communications links to Federal, State, and County organizations. The Ohio EMA implements federal and state policies and programs, and supports county emergency management agencies.

The Executive Director of Ohio EMA supervises the day-to-day operations of the agency's professional and technical support personnel and serves as the chair of the URSB.

The Ohio EMA is organized into many branches which work together to accomplish its mission: Radiological, Readiness and Response, Plans, Field Operations, Training & Exercise, Mitigation, Recovery, Grants, Communication, Data Management, Facilities, and Logistics. The Ohio EMA is responsible for Nuclear Power Plant incident response, accident assessment, instrument maintenance, training, planning, exercises and drills, utility, federal, and public interfacing and facilitation of the URSB. In addition, Ohio EMA continues to monitor activities relating to high level radioactive waste, and coordinates the transport of spent fuel and high level radioactive materials across Ohio.

### **Nuclear Power Plant Incidents**

There two classifiable events in SFY13 for FENOC plants.

Perry Nuclear Power Plant (PNPP) declared an Unusual Event (UE) on November 28, 2012 due to elevated carbon monoxide (CO) levels in the Radiological Waste (RW) Control Room. The elevated CO readings were detected during routine sampling that was conducted while Maintenance activities on the RW Ventilation System were being performed. This resulted in the evacuation of personnel from the RW Control Room and the declaration of the UE. Investigation by plant personnel found that a leaking acetylene tank was responsible for the high CO readings. After restoring ventilation and sampling showed CO readings returned to normal, the RW Control Room was manned and the plant exited from the UE.

Beaver Valley Power Station (BVPS) Unit 2 declared an Unusual Event at approximately 8:35 am on Friday June 14, 2013 due to the activation of the carbon dioxide fire suppression system in the Unit 2 turbine building. The notification call was received by the dispatch center which notified the duty officer who subsequently notified the Radiological Branch Chief. Members of the radiological branch reported to the assessment room annex to make notifications and monitor the situation. All needed notifications were made and subsequent contact with the U.S. Nuclear Regulatory Commission and plant personnel allowed the branch to maintain situational awareness until the declaration was terminated at 9:55 am. Minor after action items were identified and will be resolved.

## **Nuclear Power Plant Exercises and Drills**

Ohio EMA is responsible for the coordination of State Agency participation in nuclear power plant exercises. These exercises can take the form of small communications tests involving only State and County EMAs to major federally evaluated exercises.

In SFY2013 there were two federally evaluated exercises:

### **Perry Nuclear Power Plant Full Participation Evaluated Exercise**

The Perry Nuclear Power Plant (PNPP) evaluated exercise was October 2-3, 2012. The activities on October 2<sup>nd</sup> consisted of the biennial plume phase exercise. The activities on October 3<sup>rd</sup> encompassed the state's Ingestion Pathway Exercise (IPX), which is demonstrated once every six years. Both portions of the exercise were full participation exercises for the state.

There were no Deficiencies, or Areas Requiring Corrective Actions (ARCA) identified for the State, Lake, Geauga, and Ashtabula counties. There were several planning issues for the state which will be corrected in the After Action process.

- The procedures used by the IZRRAG focus on soil sample sites that define the perimeter of the Restricted Zone, but did not include soil samples from the center line of the plume deposition area. This could lead to an incorrect characterization of the deposited materials. The evaluator recommended the procedure for determining sample sites be revised to include center line soil samples.
- The Dose Assessment procedures and spreadsheets in use did not identify the source of the calculations being used. This hindered the ability of the dose assessment personnel and evaluators to resolve a discrepancy that was noted. The evaluator recommended this information be included in the procedures and the spreadsheets be reviewed prior to use.

In addition to the planning issues identified by the evaluators, the state assumed responsibility for a planning issue assigned to Lake County. There was an inconsistency between the state and county Emergency Planning Zone maps. Subsequent investigation revealed the state map was incorrect.

A schedule of corrective actions letter was submitted to FEMA Region V in mid-December after consultation with the URSB working group. The state committed to resolving the issues related to soil sample site selection and dose assessment by March of 2014. The state committed to having a corrected map by January 31, 2013. The map correction was completed January 8, 2013.

**Davis Besse Nuclear Power Station Full Participation Evaluated Exercise**

The Davis Besse Nuclear Power Station evaluated exercise was May 14, 2013. The activities included full participation by the State Emergency Operations Center and Recovery, Re-entry and Return (RRR) demonstrations for Ottawa and Lucas County.

There was one Area Requiring Corrective Action (ARCA) for the state with a field monitoring team which will be re-demonstrated during the next exercise.

There was one ARCA for Ottawa County which was re-demonstrated, and one planning issue.

**Drills**

Ohio EMA participated with applicable counties in the following integrated drills:

- Perry Nuclear Power Plant:
  - August 22, 2012 – Dry Run 1
  - September 12, 2012 – Dry Run 2 (JIC)
- Beaver Valley Power Station:
  - August 2, 2012
  - September 6, 2012
  - November 15, 2012
  - April 18, 2013
  - May 9, 2013
  - June 27, 2013
- Davis-Besse Nuclear Power Station
  - August 14, 2012
  - September 13, 2012
  - November 1, 2012
  - March 5, 2013
  - March 31, 2013 - TTX
  - April 2, 2013 – Dry Run
- Field Monitoring Team Drills
  - August 16, 2012
  - March 19, 2013- training and practical
  - April 1, 2013

**Ingestion Zone Reentry and Recovery Advisory Group (IZRRAG) Activities:**

- IZRRAG training was conducted on October 17- 20, 2011.
- IZRRAG drill including Field Team Center/Sample Screening Point activities and Sampling Practices was conducted on March 18 and 19, 2013.
- IZRRAG small scale Tabletop drill was conducted in conjunction with the Counties RRR dry run March 21, 2013.

### **Regulatory Updates**

Michael Bear submitted comments to FEMA, Department of Homeland Security on future revisions to NUREG-0654/FEMA-REP1, REV.1 on January 23, 2013 in response to a Federal Register announcement soliciting comments published October 30, 2012.

The new EPA Protective Action Guides and Planning Guidance for Radiological Incidents were released for interim use and comments in April of 2013. Michael Bear submitted comments on behalf of Ohio Emergency Management to the United States Environmental Protection Agency on June 23, 2013.

### **FEMA Region V Scheduling Conference**

Peter Hill attended the Conference held in Chicago Illinois on February 5 to 7, 2013. The primary agenda topic was discussion of Hostile Action Based drills, the new requirements, schedule and interpretation of what state participation was. The dates of upcoming exercises were confirmed or rescheduled in light of the new requirements captured in the new planning manual.

### **National Radiological Emergency Preparedness Conference (NREP)**

Michael Bear and Peter Hill attended the national REP conference April 8 – 11, 2013 in Austin Texas. They also attended a pre-conference training session for prospective FRMAC liaisons in order to gain insight on how the State would interact with Federal Agencies in the event of a radiological incident. They participated in a post-conference exercise designed to utilize a new information sharing tool designed by the DOE and USEPA called RadResponder. The state is evaluating the tool for inclusion in the future of Radiological Planning and response.

### **DC Cook Hostile Action Based Exercise**

Michael Bear participated in the D.C. Cook Hostile Action Based (HAB) exercise from June 3 – 5, 2013 as a controller for the Incident Command Post staging area. This provided an opportunity to observe how the challenges of hostile action were being met and provided insights on issues that Ohio should address in extent of play agreements with FEMA.

### **FEMA Region V Stakeholder's Meeting**

Michael Bear attended the FEMA Region V stakeholder's meeting June 12 and 13, 2013. Open issues from the initial rollout meeting on the new REP manual that were not handled as FAQ by FEMA HQ were discussed.

### **Emergency Planning**

The 2013 draft of the State REP Plan was submitted to FEMA for review and approval in February 2013. In addition to the state plan, the plans for counties have also been submitted for FEMA review. In addition to reviewing plans FEMA is now requiring Standard Operating Procedures/Standard Operating Guidelines to be submitted for review as well. This is an old requirement that was not stringently enforced in the past that has gained new life with the release of the new REP Planning Manual. The State and counties are in the process of assembling this information.

## OHIO ENVIRONMENTAL PROTECTION AGENCY

The Ohio Environmental Protection Agency (OEPA) regulates emissions to the environment to ensure clean air, clean water, and the proper disposal of solid and hazardous waste, and enforces management standards in order to protect Ohio citizens and the environment. With regard to the URSB and nuclear power operations, Ohio EPA is charged with applying these standards to the nuclear power plants in Ohio. As the plants are large industrial complexes, OEPA routinely monitors the permitted discharges of the nuclear power plants to ensure compliance with all regulated pollution standards.

The nuclear plants are permitted under the National Pollutant Discharge Elimination System, hazardous waste rules, Air permitting, and chemical storage. Ohio EPA divisions receive regular reports from the nuclear plants on these activities and track their performance as with other industries. In addition, OEPA also receives monitoring reports from the plants and from offsite drinking water intakes around the plant to ensure there is no contaminant migration off the plant site in the ground water.

During nuclear power plant exercises, or in the event of an actual incident involving the release of radioactive material, Ohio EPA has a Radiological Assessment Team that has trained to collect environmental samples in affected areas, and who will also take samples in non-affected areas to ensure that the full extent of any contamination is fully understood. These environmental samples, in conjunction with samples collected by other agencies will be analyzed and evaluated. Ohio EPA maintains staff at the State Emergency Operations Center who can provide technical expertise to evaluate these samples and advise local officials and state policy makers regarding the appropriate actions to be taken to protect the public health and well-being.

Ohio EPA participates in power plant evaluated exercises with other state agencies. In SFY 2013 there were two evaluated exercises in which the State participated. The Perry full scale exercise on October 2 and 3 evaluated both the plume phase and the ingestion phase, which involves the Radiological Assessment Team. The second exercise was a full scale plume exercise with Davis-Besse. The Ingestion plan was not exercised and the Ohio EPA field teams did not deploy for the Davis-Besse exercise.

Ohio EPA provides training for the Radiological Assessment Team (RAT) several times a year. This group provides environmental sampling for the Ingestion Zone Reentry and Recovery Advisory Group (IZRRAG).

Ohio EPA participated in the following training events:

Perry Dry Run August 22-23, 2012

Radiological Assessment Team and Ingestion Training September 18-19, 2012

FEMA Radiological Response training with RAT January 16-17, 2013

Ingestion phase drill with sampling teams March 18-19, 2013

Davis-Besse Dry Run April 2, 2013

RAT training was conducted at OSU Stone Laboratory June 5-7, 2013.

## **PUBLIC UTILITIES COMMISSION OF OHIO**

### **The Public Utilities Commission of Ohio**

The Public Utilities Commission of Ohio (PUCO) works to assure all residential and business consumers access to adequate, safe and reliable utility services at fair prices, while facilitating an environment that provides competitive choices. The PUCO regulates transportation, electric, natural gas, telecommunications and water/wastewater companies operating in the State of Ohio. The PUCO Transportation Department is responsible for enforcing state and federal motor carrier and rail safety requirements within the state of Ohio.

### **Transport of Radioactive Materials – PUCO Regulatory Responsibilities & Capabilities**

The Governor has designated the PUCO as the state's routing agency for radioactive materials and spent nuclear fuel. The PUCO Transportation Department is responsible for the enforcement of federal and state regulations governing the highway and railroad transport of hazardous materials, including radioactive materials. The Transportation Department staff includes twelve Hazardous Materials Specialists and one supervisor trained to standards prescribed by the United States Department of Transportation (US DOT), the Federal Motor Carrier Safety Administration (FMCSA) and the Commercial Vehicle Safety Alliance (CVSA).

These personnel are certified to conduct inspections of Highway Route Controlled Quantities of radioactive materials shipments using the CVSA Level VI, North American Standard (NAS) Inspection for Radioactive Shipments. The Level VI inspection procedure is limited to radiological shipments and includes inspection procedures of the US DOT/CVSA NAS Level I inspection. The Level VI inspection procedures include US DOT radiological requirements and stringent "out-of-service criteria" for trucks transporting the materials. CVSA Level VI inspections include close examination of the driver, the vehicle, and the radioactive materials packaging and cargo.

Radioactive materials shipments that are not examined under the Level VI process are inspected using the North American Standard Level I procedures. The Federal Motor Carrier Safety Administration requires all Highway Route Controlled Quantities of Class 7 materials, pass a CVSA Level VI inspection as specified in 49 CFR 385.415(b)(1).

Several PUCO Transportation Department personnel are certified by the US DOT Federal Railroad Administration (FRA) to inspect rail shipments of radioactive materials. Along with checking for compliance with the US DOT Hazardous Materials Regulations, these PUCO personnel are also FRA certified to inspect rail equipment, track, and operating practices.

PUCO personnel often work closely with Ohio EMA and ODH personnel to coordinate and conduct inspections of high level and special interest radioactive materials shipments. This includes radioactive industrial sources, shipments of radioactive waste. PUCO personnel inspect and escort all US DOT

regulated Highway Route Controlled Quantities (HRCQ) and as applicable Quantities of Concern (QC) shipments that enter or travel through Ohio.

## **NUCLEAR POWER PLANT ACTIVITIES**



## ***BEAVER VALLEY NUCLEAR POWER STATION***



The Beaver Valley Power Station (BVPS) is located in Shippingport, Pennsylvania on the Ohio River approximately 5 miles from the Ohio border. The plant is a two-reactor site, with Unit 1 commencing operation in October 1976 and Unit 2 in November 1987. Beaver Valley Unit 1 and Unit 2 are owned and operated by First Energy Nuclear Operating Company (FENOC).

The plant operated safely and reliably during the year.

1) The following is a summary from the twenty-first refueling outage at Beaver Valley Unit 1:

- Dose: Dose for the outage is projected to 46,922 mrem which is less than the stretch goal of 48,000 mrem.
- Personal Contamination Event (PCE): The stretch goal was 13 PCE's or less. This goal was exceeded by five for a total of 18 PCE's.
- Safety: There was one OSHA Recordable and four First Aids. This performance was not in line with expectations. The post outage critique is being used to identify issues and improve performance going forward.
- Schedule: Overall Duration was 32 days, 5 hours, 28 minutes did not meet the Business Plan of 25 Days. Grappler issues resulted in an hour for hour slip in the schedule.
- Work Orders: The initial scope of work that was established at the scope control milestone freeze date was 1805 orders for a business plan duration of 25 days. During 1R21 there were a total of 342 orders (approximately 18.9%) added, 119 orders (approximately 6.5%) dropped and 129 orders (approximately 7.1%) changed work bringing the total number of orders completed during the outage to 1959.
- Engineering Change Packages: There were a total of 72 ECP's performed during 1R21 which included 21 emergent ECP packages.

A challenge to the outage was when the refueling grappler tool became wedged onto a fuel assembly at core location F07. The refueling mast and fuel assembly were not aligned properly. Past industry practices have been to slightly raise the mast and then re-index it over the fuel

assembly. This practice resulted in the grappler becoming wedged on to the top of the fuel assembly.

The root cause stated “The root cause was determined to be the accepted industry practice of re-indexing when misalignment occurs. This, combined with the lack of structured verification practices within the refueling procedures and the vendor’s specification, allowed the refueling team to develop a mindset that there was not a potential for the Manipulator Crane gripper to become lodged in a fuel assembly top nozzle”. The cause analysis also stated “The current process (prior to the 1R21 event), and industry common practice for engaging and latching a fuel assembly is to ensure that the crane mast is “on index” by viewing the marks provided on and adjacent to the crane bridge. If a slack cable indication is received and the Z-Z axis tape is reading high, the practice is to operate the hoist in an upward direction, and adjust the crane in the proper position to engage the respective fuel assembly”.

Corrective actions to address the direct cause include:

- The Identification and implementation of a mechanism to preclude unintended mast rotation for normal fuel orientations for both the Unit 1 and Unit 2 Manipulator Cranes.
- Obtain acceptance criteria and revise and perform preventive maintenance on the Manipulator Crane Mast rollers, guides, keys and keyways (both units) to assure equipment is within acceptance criteria.
- Revision of refueling procedures to provide more specific instruction for proper gripper to fuel assembly alignment. Some of the information which shall be included is:
- Refueling personnel roles and responsibilities.
- (Senior Reactor Operator (SRO) must verify water clarity is adequate to view top nozzle S-holes prior to core offload and Core Plate pins prior to core reload.
- When lowering the gripper assembly to latch fuel, downward motion shall be halted just prior to contact until a focused effort is made to ensure proper gripper to top nozzle alignment.
- A requirement to document precursor events such as the need to realign the gripper over the fuel assembly.
- If needed underwater video equipment shall be used to obtain visual verification as described in the Westinghouse Specification.

The 2012 Evaluated Exercise was completed on June 22, 2012 with exits by FEMA in both Region 3 and 5. The report identified the following:

- State of Ohio - No Issues
- Columbiana County - No Issues
- Commonwealth of Pennsylvania - No Issues
- Beaver County - 2 ARCAs – both re-demonstrated & closed and 1 Planning Issue – closed
- Four PA support counties - No Issues
- State of West Virginia - 1 ARCA – re-demonstrated & closed, 1 previous ARCA – closed, 1 previous planning issue – closed
- Hancock County - 1 ARCA – re-demonstrated & closed, 1 Planning Issue with a goal to have it closed before the Draft Reports is issued

The NRC debrief for Beaver Valley stated that there were no findings identified. One issue noted was that current station procedures require the Emergency Recovery Manager in the EOF to authorize dose assessment to run “what if” dose projections. One occasion was noted when that authorization was not given. No adverse result was noted for this lack of procedure compliance. BV Emergency Response revised the procedure to eliminate this unnecessary restriction. The NRC also noted that the new EOF was a major improvement and is one of the best in Region 1.

2) June 14, 2013 Unusual Event

On June 14, 2013 Beaver Valley Unit 2 declared an Unusual Event under Emergency Action Level (EAL) HU5.1. “Release of toxic, corrosive, asphyxiant or flammable gases in amounts that have or could adversely affect NORMAL PLANT OPERATIONS” due to a carbon dioxide (CO<sub>2</sub>) discharge from a fire suppression system into the turbine building. This condition required evacuation of the turbine building which “could” have adversely affected NORMAL PLANT OPERATIONS therefore an emergency classification was appropriate. The site fire brigade responded, verified no fire existed, no personnel were in the area, verified that there were no injuries, and ensured that the area was clear of CO<sub>2</sub>. Normal access to the turbine building was restored at 0851. No adverse operating conditions actually resulted from the CO<sub>2</sub> discharge. All appropriate notifications were made to offsite response organizations. The Unusual Event was terminated at 0955 hours.

A rigorous investigation was conducted and it was determined that electrical terminations for a Heat Activated Device (HAD) were not properly insulated, resulting in a ground which actuated the CO<sub>2</sub> fire protection system. The HAD was recently disassembled and reassembled during the Unit 2 Main Unit Generator work that occurred during the recent forced outage. Corrective actions for several on-site organizations were implemented to prevent any similar issue from reoccurring.

## ***DAVIS-BESSE NUCLEAR POWER STATION***



FirstEnergy Nuclear Operating Company's Davis-Besse Nuclear Power Station, is near Oak Harbor, Ohio in Ottawa County. The plant is owned by FirstEnergy and operated by the FirstEnergy Nuclear Operating Company (FENOC).

The station operated safely and reliably during the year.

### 1) Shield Building Cracking - Results of Core Bore Hole Examination during Refueling Outage

The root cause was completed in February 2012 and determined that design features of the Shield Building in conjunction with the blizzard of 1978 resulted in stresses that caused the cracking. The results of the root cause were presented at a public meeting on August 9, 2012. Following the issuance of the root cause report additional actions involving further inspection and testing have been taken as follows:

- During the refueling outage in May 2012 nine core bores were inspected to confirm there were no changes in the condition of the shield building. These inspections included both cracked and uncracked core bores. No changes to the extent of cracking conditions were noted.
- During the summer of 2013, nine core bores were inspected to confirm there were no changes in the condition of the shield building. These inspections included both cracked and uncracked core bores. No changes to the extent of cracking conditions were noted. Three more core bores are scheduled to be inspected later this year.
- Impulse Response (IR) examination of the remaining accessible portions of the Shield Building exterior wall was completed in 2012. The results of this inspection are consistent with the conclusions of the root cause report.
- A procedure for long term monitoring of the Shield Building has been issued and the first inspection was completed on September 1, 2012.
- Independent testing was conducted at two nationally recognized university laboratories to establish the capacity of the rebar in a zone of cracked concrete. These tests confirmed that substantial margin exists in the zones of cracked concrete.

- Since the root cause report identified moisture intrusion in uncoated concrete as the root cause, the exterior portions of the Shield Building was sealed to prevent moisture from penetrating into the concrete. This action was completed in October 2012.

## 2) May 14, 2013 Evaluated Exercise Results

The Davis-Besse biennial Evaluated Exercise involved hundreds of Players from Davis-Besse; Ottawa, Lucas and Sandusky counties; the state of Ohio; and the Nuclear Regulatory Commission. Evaluators from various state and local agencies, the utility, NRC and FEMA concluded that the May 14th Evaluated Exercise was successfully conducted.

- Davis-Besse selected 52 objectives for demonstration, 49 were successfully demonstrated.
- There were 8 Drill/Exercise NRC Performance Indicator opportunities, 6 were successful performed.
- Credit was given for 2 additional drill objectives that were demonstrated.
- The NRC Inspectors did not identify any findings or violations.
- During the NRC exit the exercise scenario was characterized as challenging and the associated critiques as detailed, thorough, to the point and self critical.
- The new Lindsey Emergency Operations Facility, EOF was considered a strength.

## *Perry Nuclear Power Plant*



The Perry Nuclear Power Plant (PNPP) located on the shores of Lake Erie in Lake County, approximately 35 miles northeast of Cleveland, began commercial operation in November 1987. The plant is owned and operated by First Energy Nuclear Operating Company (FENOC).

PNPP is a single unit General Electric boiling water reactor (BWR). A BWR is designed to use the steam that is produced inside the reactor to drive the turbine generators. Under ideal conditions, PNPP is capable of producing enough electricity to power 1,220,360 homes in an average month.

The plant operated safely and reliably during the year.

### 1) 2012 Evaluated Exercise

The results were debriefed on October 5, 2012. The NRC identified no Findings or open items. The critique process was determined to be critical and in depth. The NRC agreed with the critique findings and issues entered into the Corrective Action program. They also reviewed the NRC Performance Indicators and had no issues. They provided insights from their team that will be used by the station for further improvement. They stated the station continued to demonstrate the ability to protect the health and safety of the public. FEMA debriefed the performance of the State of Ohio, Lake, Ashtabula and Geauga counties. The results were very good with all objectives that were selected being satisfactorily demonstrated.

### 2) PNPP Dry Cask Storage of Spent Fuel

- The initial Dry Cask Storage campaign completed in December.
- Campaign Duration: September 9, 2012 – December 22, 2012
- Number of Fuel Assemblies Moved from Spent Fuel Pool to Dry Casks: 408
- Number of Canisters: 6
- Number of Fuel Assemblies in Each Canister: 68
- Pad Capacity: 80 Casks
- Next scheduled cask transfer campaign: 2015

### 3) After- the-Fact Emergency Condition (Unusual Event)

At 1930 on November 28, 2012, it was determined that a Notification of Unusual Event (NOUE) was not declared for an event that occurred on June 3, 2012, when an equipment failure resulted in a deposit of ion exchange resin onto the floor of the Radioactive Waste building. Subsequent radiological surveys indicated that conditions met the requirements for a NOUE in accordance with the Perry Nuclear Power Plant Emergency Plan. As discussed in NUREG 1022, Revision 2, an actual declaration of an Unusual Event is not necessary. The Initiating Conditions for the emergency classification no longer existed at the time of recognition.

### 4) November 28, 2012 Unusual Event

An Unusual Event was declared under Emergency Action Level MU1, toxic gas, when carbon monoxide (CO), was detected in the Radwaste Control Room. CO levels rose to 34 ppm and the Radwaste Control Room was evacuated prior to reaching the First Energy exposure limit of 35 ppm. The source of the CO was determined to be from a leaking acetylene bottle. Acetylene is detected as carbon monoxide by the toxic gas monitoring devices. There was no radiation release from this event. There were no personnel injuries and offsite assistance was not requested. There was no effect on plant operations. At 1452, the Unusual Event was terminated following removal of the acetylene bottle and carbon monoxide readings returning to normal.

### 5) Outage Summary Refueling Outage 14 (March 18, 2013 to May 16, 2013)

The Refueling Outage consisted of: 13,478 Work Activities / 2,028 Work Orders / 826 Preventive Maintenance Orders / 714 Surveillances / 187 In-Service Inspection Exams of Reactor Pressure Vessel system components .

Major Work Scope contributing to the outage equation and designed to improve plant reliability for the upcoming operating cycles were:

- Replaced Main Turbine Low Pressure Turbine Rotors
- Replaced 15 Control Rod Blades
- Replaced 20 Control Rod Drive Mechanisms
- Rebuilt 45 Control Rod Hydraulic Control Units
- Replaced 2 Drywell Cooling Fans
- Replaced 4 Pistons and Cylinder Liners in Division 1 Emergency Diesel Generator
- Replaced Recirculation Pump B Seal and Seal Cooler
- Completed Alternate Decay Heat Removal Functional Testing
- Completed Circulating Water Fiberglass Pipe Inspection
- Installed Low Power Hydrogen Water Coolant Injection
- Completed Division 3 Emergency Diesel Generator Head replacements
- Replaced 7 Safety Relief Valves
- Identified and Removed 1 Leaking Fuel Bundle

*FirstEnergy Fleet Emergency Preparedness*

*West Akron Campus*



1) New Emergency Operating Facilities/Alternate Technical Support Facilities

Three new facilities were put into operation in 2012. Each site received a fleet standard 12,000 square foot facility that includes the latest technology and capabilities. The roll out of the facilities started at Beaver Valley, Perry and finally Davis-Besse in the fall of 2012. The facilities have been used for an Evaluated Exercise at each facility including having a full NRC Response Team play during the 2013 Davis-Besse Exercise. Positive comments were received from the regulators as well as the state and counties on the facilities.

2) Central JIC

FENOC is pursuing the establishment of a Central Joint Information Center that will support the three FENOC nuclear power plants in the event of a nuclear emergency. The facility will be located in Akron, Ohio and will be staffed by Akron FENOC employees and FirstEnergy Corporate Communications staff. The Central JIC will accommodate members of the media and will have enhanced technology that will allow for video streaming and virtual media briefings. In addition to the Central JIC location we will also have satellite JIC locations close to the risk counties and state EOC; enabling our off-site partners to virtually participate in media briefings while remaining close to their EOC's. The Central JIC is currently scheduled for construction in early 2014 and training and validation in later half of 2014

3) MIDAS

The fleet standard dose assessment program is MIDAS. It has been implemented at Beaver Valley and Perry. Training of the Davis-Besse staff is on going with a transition date of late August 2013 for that site. The MIDAS vendor has provided the software to the State of Ohio to replace their existing dose assessment program.