

FY 2014

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 2014 annual report of major Board activities.

The URSB was established in July of 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 details the actions of the Board toward the accomplishment of these goals.

- This year the Board reviewed the Ohio Revised Code section 4937 and adopted resolution 14-01 approving several proposed changes to the administrative code. These changes will eliminate the Citizens Advisory Council, which was no longer serving its intended purpose, and return the Board to having its own notification of public meetings rule.

There were three classifiable events in SFY14 for nuclear power plants affecting Ohio.

- Beaver Valley Power Station Unit 1 declared an Unusual Event at approximately 6:28 p.m. on Tuesday, November 5, based on Emergency Action Level HU4 (Explosion in the protected area). The notification call was received by the OSP dispatch center which notified the duty officer and Governor's office via the OSP HUB. The duty officer subsequently notified the Radiological Branch Analyst Supervisor, who reported to the assessment room annex to make notifications and monitor the situation. The event was terminated at 7:58 p.m. once the fire brigade verified that the fire had been extinguished by the Turbine Deluge System. Several after action items were identified and resolved.

- Beaver Valley Power Station Unit 1 declared an Unusual Event at 12:13 a.m. on Saturday, March 2, based on Emergency Action Level HU4 (fire not extinguished within 15 minutes of control room notification or verification of a control room fire alarm). There was a smoke alarm in containment which alarmed. A containment entry was performed and it was verified that there was no fire. The alarm was re-set and did not come back on. The event was terminated at 2:05 a.m.
- Perry Nuclear Power Plant declared an Unusual Event at 2:01 p.m. on Wednesday, April 2, based on Emergency Action Level MU1 (release of toxic or flammable gas concentrations detected within the protected area). Ohio EMA Radiological Personnel activated the assessment room and monitored the event overnight. The source of the toxic gas was a trichloroethylene pipe in the basement of the off-gas building which was evacuated, but contains no reactor plant safety related systems. Once the situation was stable and clean-up operations were underway monitoring operations were shared by the OSP HUB and the Ohio EMA Radiological Branch until the event was terminated on Saturday April 5 at 1:00 a.m.

The Beaver Valley Power Station biennial FEMA Evaluated Exercise was held the week of June 17th, 2014 in Columbus and Columbiana County. The exercise was the first of the newly required Hostile Action Based (HAB) exercises to be held at a facility affecting Ohio. This exercise incorporated exercise play in sequence with the nuclear power plant Tuesday evening at both the State EOC in Columbus and the Columbiana County EOC in Lisbon, Ohio. County graded demonstrations were completed on Monday, Tuesday, and Wednesday evenings. All graded criteria were completed successfully by all agencies involved.

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 of 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. 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 SFY14 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. Craig W. Butler, Director
Mr. Kevin Clouse, Designee

Ohio Department of Health
Mr. Richard Hodges, Director
Mr. Michael J. Snee, Designee

Public Utilities Commission of Ohio
Mr. Thomas W. Johnson, Chairman
Mr. Daniel Fisher, Designee

URSB ACTIONS AND ACTIVITIES



SUMMARY OF URSB ACTIONS AND ACTIVITIES:

Statutory Meetings:

During SFY 2014 the URSB held four statutory meetings all at the Ohio SEOC/JIC facility in Columbus. These meetings were: July 8, 2013, October 7, 2013, January 13, 2014 and April 16, 2014. There were members of the public representing the Ohio Sierra Club at the July and October meetings who asked questions regarding the Davis Besse Nuclear Power Station.

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

July 8, 2013 Statutory Meeting Summary:

Ms. Nancy Dragani, Ohio Emergency Management Agency, called to order the July 8, 2013 meeting of the Utility Radiological Safety Board at 1:30 p.m. at the Ohio Emergency Management Agency.

The first order of business from the agenda was the roll call taken by Lori Osborne.

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

I. ROLL CALL

EMERGENCY MANAGEMENT AGENCY	MS. NANCY DRAGANI
DEPARTMENT OF HEALTH	MR. MICHAEL SNEE
DEPARTMENT OF AGRICULTURE	MR. CHUCK KIRCHNER
PUBLIC UTILITIES COMMISSION	MR. DAN FISHER
ENVIRONMENTAL PROTECTION AGENCY	MR. KEVIN CLOUSE
DEPARTMENT OF COMMERCE	MR. DEAN JAGGER
ATTORNEY GENERAL'S OFFICE	MS. HILARY DAMASER

A quorum was declared.

II. READING OF THE APRIL 15, 2013 MINUTES (ADOPTED)

The board dispensed with the reading of the April 15, 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. Michael Snee, Ohio Department of Health, moved to adopt the minutes and Mr. Dan Fisher, Ohio Public Utilities Commission, seconded. The motion carried.

III. OLD BUSINESS

A. 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.

B. 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 took place in Buffalo in May. There is nothing new to report since the last meeting. The next meeting is scheduled for October.

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. URSB and Working Group Initiatives Discussion

Mike Bear asked if there any changes that anyone wanted made to the spreadsheet. He also asked if there were any new initiatives that anyone wished to pursue that were not on the list. There were none.

C. URSB Approval of Comments on U.S. EPA Protective Action Guidelines Manual

No update at this time. This will be updated at the next meeting.

D. URSB Annual Report

This will be discussed at the next meeting. A first draft should be ready in early August and available for comment with a final draft ready for the next meeting in October. If you have any suggestions for the cover, please e-mail them to Mr. Mike Bear.

E. Streamlining of Power Plant Notification Process

This is an issue that came up during the last exercise. How quickly can we get this information to the Assessment Room and Executive Room? At the present time, we are approximately a half hour behind. There was a lot of confusion in the Toledo JIC during the exercise. Nancy is interested in the Kaizen process to help with the streamlining, and would like FENOC to be involved in these discussions.

F. Nuclear Regulatory Commission

Mr. Allan Barker of the Nuclear Regulatory Commission reported on the following topics: Oversight of the 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.

G. Utility Reports

Lauren Worth reported on Social Media. First Energy has started incorporating social media as a whole. Twitter accounts have been set up for each of the three nuclear operating companies in the event of an emergency. They have a dedicated staff member in Akron who has the responsibility of tweeting on those accounts and keeping them up-to-date as well as news links being put on the website. Two external media reporting sources are also used.

Mr. Ricky Collings of the First Energy Nuclear Operating Company provided the utility report on the following topics: Beaver Valley Power Station Unusual Event of June 14, 2013, Davis-Besse May 14, 2013 Evaluated Exercise Result, Steam Generator Replacement project - DBNPS vs. San Onofre, Status of MIDAS Implementation, Perry Nuclear Power Plant Refueling Outage of March 18 – May 16, 2013, and Perry Nuclear Power Plant Shutdown of June 2013. Mr. Collings report is attached at the end of the Board-approved minutes.

V. MISCELLANEOUS

A. Questions from the Public

1. Ms. Pat Marida, Ohio Sierra Club: Stated that it was the public understanding that the steam generators at Davis-Besse were supposed to undergo replacement by Southern California Edison. She was given the impression that it did not undergo a full review and this was how things got into trouble at San Onofre. She had questions about why this comparison is being done. Said there was one small change, but in a webinar that was given, several changes were mentioned. She was wondering if it would be prudent for FENOC to undergo a full review with a public hearing as to any

changes that would be made in the steam generator. She was told that the replacement generators are the same as were put in originally.

2. Mr. Lee Blackburn, Ohio Sierra Club – Is there any concern about cutting into the containment building in order to replace the steam generators given that cracks have been found in the containment building? He was told that the cracks have been contained. Cutting is not done in the same place every time. The cracks were architectural and not structural. Post maintenance testing is done. The same criteria must be passed as in the initial testing.

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. Kevin Clouse, Ohio Environmental Agency, seconded the motion. The meeting was adjourned.

Working Group Snapshot for July 8, 2013

Action Item	Last Updated	Target Date:	Lead	Supporting Agencies	Essential Tasks Supported	Status:
IZRRAG Activities	26-Jun-13	1-Sep-13	ODH	OEMA, ODH	Emergency Planning - Exercises	In Progress
State Dose Assessment	26-Jun-13	1-Nov-13	ODH	FENOC, OEMA	Emergency Planning - Technology	In Progress Waiting on FENOC
Potassium Iodide Supply	26-Jun-13	31-Jan-14	ODH	NRC	Public Health and Safety - KI	In Progress
Technology Updates	26-Jun-13	1-Apr-13	OEMA	FENOC	Emergency Planning - Technology	Waiting on FENOC
RadResponder PRO	26-Jun-13	1-Jul-14	OEMA		Emergency Planning - Technology	In Progress
IZRRAG Activities	26-Jun-13	1-Jun-14	OEPA	Ohio EMA, OEPA, ODH	Emergency Planning - Exercises	In Progress

October 7, 2013 Statutory Meeting Summary:

Ms. Nancy Dragani, Ohio Emergency Management Agency, called to order the October 7, 2013 meeting of the Utility Radiological Safety Board at 1:30 p.m. at the Ohio Emergency Management Agency.

The first order of business from the agenda was the roll call taken by Melissa Wulliger.

Guests: Mr. Gregory H. Halnon, Director of Fleet Regulatory Affairs for First Energy Nuclear Operating Company.

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| <p>I. ROLL CALL</p> <p>EMERGENCY MANAGEMENT AGENCY</p> <p>DEPARTMENT OF HEALTH</p> <p>ENVIRONMENTAL PROTECTION AGENCY</p> <p>DEPARTMENT OF AGRICULTURE</p> <p>PUBLIC UTILITIES COMMISSION</p> <p>DEPARTMENT OF COMMERCE</p> | <p>MS. NANCY DRAGANI</p> <p>MR. MICHAEL SNEE</p> <p>MR. KEVIN CLOUSE</p> <p>MR. CHUCK KIRCHNER</p> <p>MR. DAN FISHER</p> <p>MR. DEAN JAGGER</p> |
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A quorum was declared.

- II. READING OF THE JULY 8, 2013 MINUTES (ADOPTED)
- The board dispensed with the reading of the July 8, 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. Michael Snee, Ohio Department of Health, moved to adopt the minutes and Mr. Kevin Clouse, Ohio Environmental Protection Agency, seconded. The motion carried.

III. OLD BUSINESS

- A. 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.
- B. Midwestern Committee Report
Nothing to Report—No further reporting expected.

IV. NEW BUSINESS

C. 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.

D. Role of URSB and Relationship to the Working Group

At past meetings it was noted the Board wanted to be more engaged and less reactive. Director Dragani suggested that the Board needed to discuss its role and ways it could be more engaged with the working group.

E. URSB Annual Report

Director Dragani asked for a motion to approve the final draft URSB Annual Report. The motion was moved and seconded. The motion carried.

F. Streamlining of Power Plant Notification Process

Mr. Michael Bear, Ohio Emergency Management Agency, mentioned that the DPS Process Improvement Team has put the project on hold. Director Born has identified other projects for DPS which take precedence at this time. As there is not a time frame on when they will be able to assist, we will have to begin this process ourselves. We might be able to do this in conjunction with integrating WebEOC into our processes.

G. Nuclear Regulatory Commission

The Nuclear Regulatory Commission representative, Mr. Allan Barker, was not in attendance today because of the government shutdown. The notes Mr. Barker provided were presented by Mr. Michael Bear, Ohio Emergency Management Agency, who quickly summarized the notes to the board. If you would like the source documents Mr. Allan Barker submitted, please see Mr. Michael Bear and he will provide them.

H. Utility Reports

Mr. Rick Collings of the First Energy Nuclear Operating Company provided the utility report on the following topics: Beaver Valley Power Station Unit 1 Outage, Hostile Action Based Exercise, Dry Cask Storage, Davis-Besse Nuclear Power Station MIDAS and E-Data Implementation Delays & Expected Completion, Date MIDAS Available to the State of Ohio, Recent information associated with cracking in the Shield Building, Perry Nuclear Power Plant's new site Vice President, Mr. Ernest (Ernie) J. Harkness, and other Perry Nuclear Power Plant Updates. Mr. Gregory H. Halnon, Director of Fleet Regulatory Affairs for First Energy Nuclear Operating Company presented on FENOC's involvement with Small Modular Reactors.

V. MISCELLANEOUS

A. Location of next meeting

At the January meeting it was decided to not have the meetings in the counties due to lack of public interest. Options were discussed of holding the meetings in the field again in 2014 or having a single meeting in one of EPZs during the course of the year. It was decided to explore holding the July meeting in the field. Mr. Bear and Mr. Collings were asked to work out the details of where the meeting would be held. The next meeting is scheduled for January 13, 2014, at the Ohio Emergency Management Agency.

B. 2014 Meeting Dates –

Proposed dates are Monday, January 13, 2014; Wednesday, April 16, 2014; Monday, July 14, 2014; and Tuesday, October 14, 2014. No objections were raised to the proposed dates.

C. Questions from Public

Ms. Pat Marida, Ohio Sierra Club: Could more cracks in the Shield Building at Davis-Besse be located in more critical areas? Also, is there any concrete strength testing? These questions were best directed to the NRC representative who was unable to attend. Ms. Marida also raised a question reference fracking waste and clay being put into landfills. Director Dragani explained that fracking and its associated wastes fall outside of the purview of the URSB. Mr. Snee of ODH informed Ms. Marida that his organization could answer her questions and provided her with his contact information so he could address her concerns at a later date.

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 the motion was seconded. The meeting was adjourned.

Working Group Snapshot for October 7, 2013

Action Item	Last Updated	Target Date:	Lead	Supporting Agencies	Essential Tasks Supported	Status:
IZRRAG Activities	1-Oct-13	1-Sep-13	ODH	OEMA, ODH	Emergency Planning - Exercises	In Progress
State Dose Assessment	1-Oct-13	1-Nov-13	ODH	FENOC, OEMA	Emergency Planning - Technology	In Progress Waiting on FENOC
Potassium Iodide Supply	1-Oct-13	31-Jan-14	ODH	NRC	Public Health and Safety - KI	In Progress
Technology Updates	20-Sep-13	Completed 9/20/2013	OEMA	FENOC	Emergency Planning - Technology	Complete
RadResponder PRO	1-Oct-13	1-Jul-14	OEMA		Emergency Planning - Technology	In Progress
IZRRAG Activities	1-Oct-13	1-Jun-14	OEPA	Ohio EMA, OEPA, ODH	Emergency Planning - Exercises	In Progress
Reactor Oversight						
Reactor Unit	Action Matrix Column		Current Regulatory Oversight			Last Change
Beaver Valley Unit 1	Licensee Response (1)		Baseline Inspection			<u>3Q2013</u>
Beaver Valley Unit 2	Licensee Response (1)		Baseline Inspection			<u>3Q2013</u>
Davis Besse	Regulatory Response (2)		Baseline Inspection and IP95001			3Q2012
Perry	Licensee Response (1)		Baseline Inspection			<u>3Q2013</u>

January 13, 2014 URSB Statutory Meeting Summary:

Mr. Michael Snee, Ohio Department of Health, called to order the January 13, 2014 meeting of the Utility Radiological Safety Board at 1:30 p.m. at the Ohio Emergency Management Agency.

The first order of business from the agenda was the roll call taken by Melissa Wulliger.

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| <p>I. ROLL CALL (Board Members)</p> <p>EMERGENCY MANAGEMENT AGENCY</p> <p>DEPARTMENT OF HEALTH</p> <p>ENVIRONMENTAL PROTECTION AGENCY</p> <p>DEPARTMENT OF AGRICULTURE</p> <p>PUBLIC UTILITIES COMMISSION</p> <p>DEPARTMENT OF COMMERCE</p> | <p>MS. SIMA MERICK</p> <p>MR. MICHAEL SNEE</p> <p>MR. KEVIN CLOUSE</p> <p>MR. CHUCK KIRCHNER</p> <p>MR. DAN FISHER</p> <p>MR. DEAN JAGGER</p> |
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A quorum was declared.

Other Notable Attendees:

- Ms. Hilary Damaser, Attorney General’s Office
- Mr. Dwaine Warren, FEMA
- Mr. Allan Barker, NRC
- Mr. Rick Collings, First Energy
- Director Darin Benyak, First Energy
- Mr. Pete Hill, Ohio Emergency Management Agency

II. READING OF THE OCTOBER 7, 2013 MINUTES (ADOPTED)

The board dispensed with the reading of the October 7, 2013 meeting minutes. Mr. Snee, Ohio Department of Health, asked for additions, corrections or deletions to the minutes. There were none. Mr. Jagger, Department of Commerce, made the motion to approve the minutes, and Mr. Fisher, Public Utilities Commission, seconded the motion. None opposed and the motion carried.

III. OLD BUSINESS

A. URSB Working Group Report

Mr. Pete Hill, 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.

Mr. Hill also updated the board regarding the RadResponder Pro. This is available at no cost to the State. It provides rapid and accurate data collection during radiological incidents via a centralized location. Each agency has examined the program. Permission to move forward with RadResponder Pro and incorporate use was requested. Mr. Snee solicited questions regarding the RadResponder Pro, and there were none. Permission was granted to move forward. Mr. Hill will track progress and provide updates. There will be a RadResponder Pro presentation at the next board meeting.

IV. NEW BUSINESS

A. URSB WG Quarterly Reports

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, which are available by contacting the URSB Secretary at 614-899-7150.

B. Role of URSB and Relationship to the Working Group

In prior meetings, it was noted the Board wanted to be more engaged and less reactive with the work group. It was suggested that the Board needed to discuss its roles and ways it could be more engaged with the working group.

Mr. Hill made a few comments on the Joint Observation Inspection Program (JIOP): ODH has taken the lead with the Joint Inspection Observation Program and all is going well with NRC. It is noted, that the state cannot report on any fact or finding that may be found during the inspection.

Mr. Barker, NRC, added that JIOP is under regulatory guidelines according to the protocol agreement. There is value in the responsibility of timely and expert reporting. Following the protocol agreement should be collaborative if observer is not receiving any shared benefit. The downside is having disagreeing reporting opinions that would make the benefit ineffective. Mr. Snee adds that Ohio is grateful to have the opportunity to attend inspections. Mr. Barker stated that Ohio actually takes advantage of the inspection process unlike others. This fits why the URSB work group meets and the work group has mentioned before that they would like to share their reports. It was mentioned that it would be beneficial for the board to see a few of the reports.

Hostile Action Planning Continues – Beaver Valley partial participation will occur in 2014, Perry full participation in 2014 and Davis-Besse full participation will be evaluated in 2015.

C. Nuclear Regulatory Commission

The Nuclear Regulatory Commission representative, Mr. Allan Barker, read from a document that he prepared. This document is available by contacting the URSB Secretary at 614-889-7150.

D. Federal Emergency Management Agency

Mr. Warren updated the board by announcing there were ten exercises scheduled. A lot of work has gone into preparing, planning, scheduling and tabletops. He is working with Mr. Mike Bear and Mr. Pete Hill closely on the programs. Davis- Besse is getting ahead on their HAB plan review. Perry has started theirs as well.

E. Utility Reports

Mr. Rick Collings of the First Energy Nuclear Operating Company introduced the new Director of First Energy Nuclear Operating Company, Mr. Darin Benyak, and then proceeded with the utility report, which is available by contacting the URSB Secretary at 614-889-7150.

V. MISCELLANEOUS

A. Questions

- No additional questions were presented to the board from the public
- The next meeting will be 4/16/14

VI. ADJOURNMENT

Mr. Michael Snee, Ohio Department of Health, asked if there was a motion to adjourn the meeting. Mr. Clouse, Environmental Protection Agency, made a motion to adjourn and the motion was seconded by Mr. Kirchner, Department of Agriculture. The meeting was adjourned at 3:22 p.m.

Working Group Snapshot for January 13, 2014

Action Item	Last Updated	Target Date:	Lead	Supporting Agencies	Essential Tasks Supported	Status:
IZRRAG Activities	8-Jan-14	1-Sep-13	ODH	OEMA, ODH	Emergency Planning - Exercises	In Progress
State Dose Assessment	8-Jan-14	1-Nov-13	ODH	FENOC, OEMA	Emergency Planning - Technology	In Progress Waiting on FENOC
Potassium Iodide Supply	8-Jan-14	31-Jan-14	ODH	NRC	Public Health and Safety - KI	In Progress
IZRRAG Activities	8-Jan-14	1-Jun-14	OEPA	Ohio EMA, OEPA, ODH	Emergency Planning - Exercises	In Progress
RadResponder PRO	8-Jan-14	1-Jul-14	Ohio EMA		Emergency Planning - Technology	In Progress
REP Plan Review	8-Jan-14	31-Jan-15	Ohio EMA	ODA, ODH, ODNR,	Emergency Planning	
ALC	8-Jan-14	31-Jan-15	Ohio EMA	EPZ Counties, FENOC	Emergency Planning	
Agriculture Brochure	8-Jan-14	31-Oct-14	ODA		Emergency Planning	
Reactor Oversight						
Reactor Unit	Action Matrix Column		Current Regulatory Oversight		Last Change	
Beaver Valley Unit 1	Licensee Response (1)		Baseline Inspection		3Q2013	
Beaver Valley Unit 2	Licensee Response (1)		Baseline Inspection		3Q2013	
Davis Besse	Regulatory Response (2)		Baseline Inspection and IP95001		3Q2012	
Perry	Licensee Response (1)		Baseline Inspection		3Q2013	

April 16, 2014 URSB Statutory Meeting Summary:

Mr. Michael Snee, Ohio Department of Health, called to order the April 16, 2014 meeting of the Utility Radiological Safety Board at 1:30 p.m. at the Ohio Emergency Management Agency.

The first order of business from the agenda was the roll call taken by Melissa Wulliger.

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| I. ROLL CALL (Board Members) | |
| EMERGENCY MANAGEMENT AGENCY | MS. NANCY DRAGANI |
| DEPARTMENT OF HEALTH | MR. MICHAEL SNEE |
| ENVIRONMENTAL PROTECTION AGENCY | MR. KEVIN CLOUSE |
| DEPARTMENT OF AGRICULTURE | MR. CHUCK KIRCHNER |
| PUBLIC UTILITIES COMMISSION | MR. DAN FISHER |
| DEPARTMENT OF COMMERCE | MR. DEAN JAGGER |

A quorum was declared.

Other Notable Attendees:

- Ms. Hiliary Damaser, Attorney General’s Office
- Mr. Allan Barker, NRC
- Mr. Rick Collings, First Energy
- Mr. Terry Brown, Perry Nuclear Power Plant’s PI Director
- Mr. Eric Denison, Ohio Dept. of Health
- Mr. Tim Clark, Emergency Management Agency

II. READING OF THE JANUARY 13, 2014 MINUTES (ADOPTED)

The board dispensed with the reading of the January, 2014 meeting minutes. Mr. Snee, Ohio Department of Health, asked for additions, corrections or deletions to the minutes. There were none. Mr. Jagger, Department of Commerce, made the motion to approve the minutes, and Mr. Fisher, Public Utilities Commission, seconded the motion. None opposed and the motion carried.

III. OLD BUSINESS

A. URSB Working Group Report

The URSB rules are coming up on the required five-year rule review. It will be requested that Rule 4937-1-02, which governs the Citizen’s Advisory Council, be rescinded. Ms. Damaser and Ms. Welch will oversee this process.

It was requested that the Mr. Zack Clayton update the Board regarding the URSB work group activities. The AG brochure has been completed for 2014. IZRRAG Activities have been completed. The field teams are in the process of testing RadResponder Pro. Mr. Clayton briefly explained how RadResponder Pro works. During the upcoming dry run, we will determine if we want to evaluate it or not. Emergency Worker KI project date has passed.

Some of the KI has been extended for emergency workers until the end of April. Supply was delivered to ODH warehouse. The packets will be converted to a five-day supply versus the seven day due to integrity of packaging. The general public KI is due to expire in October. Delivery is expected August, 2014.

IV. NEW BUSINESS

A. URSB WG Quarterly Reports

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, which are available by contacting the URSB Secretary at 614-899-7150.

B. URSB Rule Review

It is time for the five-year rule review. Ms. Damaser will look at these rules for us and all will be filed according to the ORC. The rule for the Citizen's Advisory Council will be rescinded. A packet of the new rules and rescinded ones will be presented at the next statutory board meeting.

C. Proposed Changes to U.S. EPA Environmental Radiation Protection Standards for Nuclear Operation Mr. Zack Clayton, Ohio EPA and Mr. Eric Denison, Ohio Department of Health gave presentations on the proposed rulemaking for "Environmental Radiation Protection Standards for Nuclear Power Operations (40CFRpart190).

D. RadResponder Presentation – Mr. Tim Clark, Ohio EMA

- What is RadResponder? It is a software application internet web page applications Android Apple iOS RadResponder Pro. What does RadResponder do?
Provides rapid and accurate data collection during radiological incidents via a centralized location; more data; better data (improve accuracy); receive data faster. RadResponder Design Principles; Free with no startup costs; Always available & controlled by end users; Works with whatever equipment users already have; Easy to deploy, learn, and maintain.
- Incorporate training and support from the beginning; Stay focused on data sharing and partnerships; Provide open device and integration options; Employ Standard formats and terminology; Tightly integrate with existing federal capabilities.

E. Nuclear Regulatory Commission

The Nuclear Regulatory Commission representative, Mr. Allan Barker, read from prepared notes. NRC completed its end-of-cycle performance review of all three sites on February 12, 2014. Mr. Barker gave a summary of the inspections for each plant and the selected upcoming inspections from the 2014/2015 inspection schedule were identified. The complete report is available upon request from the URSB Secretary at 614-899-7150.

F. Utility Reports

First Energy, Mr. Rick Collings, introduces the new Performance Improvement director at Perry Nuclear Power Plant. His name is Mr. Terry Brown. Mr. Collings reported on activities at all three sites including details of scheduled outage activities at both Beaver Valley and Davis Besse. The complete report is available upon request from the URSB Secretary at 614-899-7150.

V. **MISCELLANEOUS**

- Financial Disclosure deadline is May 15, 2014
- No questions were presented to the board from the public

VI. **ADJOURNMENT**

Dan Fisher, PUCO, asked for a motion to adjourn the meeting and Mr. Clouse, EPA, seconded the motion. The motion passed and the meeting was adjourned at 4:05 p.m.

Working Group Snapshot for April 16, 2014

Action Item	Last Updated	Target Date:	Lead	Supporting Agencies	Essential Tasks Supported	Status:
IZRRAG Activities	2-Apr-14	1-Sep-13	ODH	OEMA, ODH	Emergency Planning - Exercises	Complete 3/5/2014
State Dose Assessment	2-Apr-14	1-Nov-13	ODH	FENOC, OEMA	Emergency Planning - Technology	Complete 1/24/2014
Potassium Iodide Supply	2-Apr-14	31-Jan-14	ODH	NRC	Public Health and Safety - KI	In Progress
RadResponder Implementation Lab	2-Apr-14	1-Sep-14	ODH		Emergency Planning - Technology	In Progress
IZRRAG Activities	2-Apr-14	1-Jun-14	OEPA	Ohio EMA, OEPA, ODH	Emergency Planning - Exercises	In Progress
RadResponder PRO evaluation	2-Apr-14	Completed	Ohio EMA		Emergency Planning - Technology	Complete 1/8/2014
RadResponder Implementation-FMT	2-Apr-14	1-Sep-14	Ohio EMA		Emergency Planning - Technology	In Progress
REP Plan Review 2014	2-Apr-14	31-Jan-14	Ohio EMA	ODA, ODH, ODNr,	Emergency Planning	Complete 3/7/2014
REP Plan Review 2015	8-Jan-14	31-Jan-15	Ohio EMA	ODA, ODH, ODNr,	Emergency Planning	
ALC	2-Apr-14	31-Jan-15	Ohio EMA	EPZ Counties, FENOC	Emergency Planning	
Agriculture Brochure	2-Apr-14	31-Oct-14	ODA		Emergency Planning	
Reactor Oversight						
Reactor Unit	Action Matrix Column		Current Regulatory Oversight		Last Change	
Beaver Valley Unit 1	Licensee Response (1)		Baseline Inspection		3Q2013	
Beaver Valley Unit 2	Licensee Response (1)		Baseline Inspection		3Q2013	
Davis Besse	Regulatory Response (2)		Baseline Inspection and IP95001		3Q2012	
Perry	Licensee Response (1)		Baseline Inspection		3Q2013	

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 FY14 the URSB JIOP participants observed eight NRC inspections.

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 brief the URSB with inspections observed during the quarter.

JIOP INSPECTIONS FY2014 (July 1, 2013 to June 30, 2014)

JIOP Number	Date(s)	Inspection	Agency
2014-PNPP-01	September 23-27, 2013	Radiological Environmental Monitoring Program.	ODH
2014-DBNPS-01	November 4-8, 2013	Radiological Hazard Assessment & Exposure Controls. Radioactive Gaseous and liquid Effluent Treatment. Performance Indicator Verification for: Occupational Radiation Safety, Public Radiation Safety, Reactor Coolant Activity.	ODH
2014-BVPS-01	November 18-22, 2013	Occupational ALARA Planning & Controls	ODH
2014-DBNPS-02	February 10-14, March 3, 2014	Radiological Hazard Assessment & Exposure Controls	ODH
2014-BVPS-02	March 3-7, 2014	Radiological Hazard Assessment & Exposure Controls	ODH
2014-PNPP-02	March 31 – April 4, 2014	Rad solid waste processing & RAM handling storage transportation	ODH
2014-PNPP-03	April 21-24, 2014	Radiological Hazard Assessment & Exposure Controls	ODH
2014-PNPP-04	May 5-9, 2014	Radiation Monitoring and Instrumentation	ODH

FINANCIAL REPORT



DESCRIPTION	SFY10	SFY11	SFY12	SFY13	SFY14
<i>Appropriations</i>					
Emergency Management	\$1,319,926	\$1,381,558	\$1,329,226	\$1,415,945	\$1,415,945
Health	\$850,000	\$850,000	\$988,079	\$984,700	\$1,012,671
Environmental Protection	\$285,982	\$285,982	\$307,031	\$300,571	\$298,820
Agriculture	\$121,022	\$123,048	\$123,570	\$116,988	\$117,826
Commerce♦					
Public Utilities Commission♦					
<i>Total Appropriation</i>	\$2,576,930	\$2,640,588	\$2,747,906	\$2,818,204	\$2,845,262
<i>Expenditures</i>					
Emergency Management	\$1,028,826	\$995,249	\$1,237,811	\$1,154,488	\$1,066,648
Health	\$850,000	\$850,000	\$988,080	\$984,700	\$959,761
Environmental Protection	\$254,143	\$259,888	\$268,363	\$279,826	\$270,598
Agriculture	\$86,105	\$103,696	\$120,674	\$115,069	\$117,790
Commerce♦					
Public Utilities Commission♦					
Total Expense (Year-end Balance)	\$2,219,074	\$2,208,833	\$2,614,928	\$2,534,083	\$2,414,797

♦ 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 2013, 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 Shared Point system training held at OEMA on September 27, 2013. ODA also participated in the WEB/EOC training at OEMA on October 23, 2013 and January 8, 2014 for field sampling team members and for ODA senior management.

On February 26, 2014, ODA with the support and assistance of OEMA conducted a state drill utilizing the WEB/EOC.

At the request of OEMA, ODA provided a list of current locations for farmers, dairies, granaries, meat processors, food processing facilities and food distributors within a 50 mile radius of the Perry Nuclear Power Plant. This was done for a special sampling project. This information will be available for use in future Ingestion Pathway exercises.

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 SFY14, 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 participated in the June 2014 Beaver Valley Nuclear Power Station (BVPS) 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 as well as a web based annual training, including: plant-specific systems training, tabletop exercise, dose assessment training, and Field Monitoring Team training. ODH-BRP rotates staff members through different positions to broaden staff skills and allow flexibility in assigning response personnel.

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 one MS-1 exercise, at Salem Community Hospital in October 2013. The hospital was determined to be 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.

ODH-BRP regularly joins with URSB member agencies and First Energy Nuclear Operating Company (FENOC) in development and training activities. This fiscal year included support for the development of training videos, and attendance at the BVPS Offsite Agency Training Session (OATS).

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 nine 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.

Dose Assessment Activities

MIDAS was selected to be the new State Dose Assessment Software. BVPS exercise in June 2014 was our first opportunity to make use of the new software.

To advance our skills in dose assessment, one staff member attended the Turbo FRMAC training in Albuquerque, NM in April 2014. Information presented covered public protection, worker protection and ingestion pathway dose assessment.

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 ODH Annual Environmental Monitoring Report for 2013 has been completed.

Other Related Items

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

A member of the ODH-BRP staff attended the National Radiological Emergency Preparedness (NREP) Conference held in Salt Lake City, UT in April 2014. The conference featured speakers from FEMA, NRC, CRCPD, FDA, DOD/DOE and various states.

A member of the ODH-BRP staff observed the FERMI nuclear power plants Hostile Action Based Exercise for Dose Assessment at the Field Team Center, April 28-29, 2014.

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 (State EOC), 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 two Divisions, Operations and Administration, which work together to accomplish its mission. The Operations Division consists of the Radiological, Internal Operations, and Regional Operations Branches. The Administration Division consists of the Fiscal and Grants Management Branch, Mitigation and Recovery Branch, and Facilities, Communications and Information Technology Branch. 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 were three classifiable events in SFY14 for nuclear power plants affecting Ohio.

- 1.) Beaver Valley Power Station Unit 1 declared an Unusual Event at approximately 6:28 p.m. on Tuesday November 5, based on Emergency Action Level HU4, *Explosion in the Protected Area*. The notification call was received by the dispatch center which notified the duty officer and Governor's office via the OSP HUB. The duty officer subsequently notified the Radiological Branch Analyst Supervisor, who reported to the assessment room annex to make notifications and monitor the situation. The event was terminated at 7:58 p.m. once the fire brigade verified that the fire had been extinguished by the Turbine Deluge System. Several after action items were identified and resolved.
- 2.) Beaver Valley Power Station Unit 1 declared an Unusual Event at 12:13 a.m. on Saturday March 2 based on Emergency Action Level HU4, *Fire Not Extinguished Within 15 Minutes of Control Room Notification or Verification of a Control Room Fire Alarm*. There was a smoke alarm in containment which alarmed. A

containment entry was performed and it was verified that there was no fire, but that atmospheric conditions existed due to a relief valve has lifted which could be read as smoke. The alarm was re-set and did not activate again. The event was terminated at 2:05 a.m.

- 3.) Perry Nuclear Power Plant declared an Unusual Event at 2:01 p.m. on Wednesday April 2 based on Emergency Action Level MU1, *Release of Toxic or Flammable Gas Concentrations Detected within the Protected Area*. Ohio EMA Radiological Personnel activated the assessment room and monitored the event overnight. The source of the leak was a trichloroethylene pipe in the basement of the Off-Gas Building, which was evacuated, but contains no safety related systems. Once the situation was stable, and clean-up operations were underway, monitoring operations were shared by the OSP HUB and the Ohio EMA Radiological Branch until the event was terminated on Saturday, April 5, at 1 a.m.

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 SFY2014 there was one federally evaluated exercise:

Beaver Valley Power Station Hostile Action Based (HAB) FEMA Evaluated Exercise

The Beaver Valley Power Station biennial FEMA Evaluated Exercise was held the week of June 17th, 2014 in Columbus and Columbiana County. The exercise was the first of the newly required Hostile Action Based (HAB) exercises to be held at a facility affecting Ohio. This exercise incorporated exercise play in sequence with the nuclear power plant Tuesday evening at both the State EOC in Columbus and the Columbiana County EOC in Lisbon, Ohio. County out of sequence graded demonstrations were completed on Monday, Tuesday, and Wednesday evenings. All graded criteria were completed successfully by all agencies involved.

Drills

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

- Perry Nuclear Power Plant:
 - July 10, 2013
 - November 13, 2013
 - January 29, 2014
 - June 25, 2014 – HAB Table Top Exercise
- Beaver Valley Power Station:
 - July 18, 2013
 - February 6, 2014 HAB Table Top Exercise
 - April 1, 2014 HAB Dry Run #1
 - May 29, 2014 HAB Dry Run #2
 - June 17, 2014 HAB Evaluated Exercise
- Davis-Besse Nuclear Power Station
 - September 10, 2013
 - October 1, 2013
- Field Monitoring Team Drills
 - March 20, 2014 – training and practical exercise

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

- Mr. John Wills working with ODA and for Ohio EMA developed an automated sample selection process for the PNPP area. By importing a plume shape file into a modified MARPLOT base map the program can help select all of the registered food producers and facilities that need to be sampled, and produce labels for those samples that can be assigned to teams through the Field Team Center.
- Mr. Wills also developed improved intermediate phase sample data sheets which will calculate Derived Response Level (DRL) and Derived Intervention Level (DIL) and compare them to EPA and FDA Protective Action Guidelines (PAG) using current Federal Radiological Monitoring and Assessment Center (FRMAC) methodology.

Regulatory Updates

Radiological Branch staff attended a three day webinar review of NUREG 0654/FEMA REP-1 REV-2 and submitted written comments to FEMA and the NRC.

FEMA Region V Scheduling Conference

Mr. Peter Hill attended the Conference held in Chicago, Illinois on November 12-15, 2013. The primary agenda topic was lessons learned from the first round of HAB Exercises. Other topics included; updates and answers to frequently asked questions concerning the newest revision of the Radiological Emergency Preparedness Program manual, availability of GIS layers from FEMA for the subareas around a nuclear power plant that have infrastructure, population, etc., and the importance of social media during an event. 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)

Mr. Peter Hill attended the National REP Conference April 5-10, 2014 in Salt Lake City, Utah. He also attended a pre-conference training session on the TurboFRMAC dose assessment software suite. Mr. Hill participated in an exercise utilizing the RadResponder software, which the State of Ohio has adopted to record field monitoring team radiation measurements and sample results.

Fermi Hostile Action Based Exercise

Ms. Cheryl Chubb and Mr. John Flegal observed Incident Command Post and Emergency Worker Monitoring and Decontamination portions of the Fermi Hostile Action Based (HAB) exercise April 29, 2014 in Monroe County, Michigan.

Emergency Planning

The 2014 draft of the State REP Plan was submitted to FEMA for review and approval in January 2014. In addition to the state plan, the plans for counties were submitted along with their supporting Standard Operating Procedures. Columbiana County performed an extensive plan review with FEMA, which cross referenced every evaluated criteria and qualifying factor to the county plan. The state and other REP counties are completing similar reviews as they approach their HAB exercises. The conduct of the HAB exercise will initiate the new REP eight year exercise cycle. Columbiana, Lake, Geauga, and Ashtabula counties have or will conduct their HAB exercises in calendar year 2014. The State of Ohio, Ottawa County, and Lucas County will conduct their HAB exercise in calendar year 2015.

Common Dose Assessment Goal

FENOC and the State of Ohio adopted the MIDAS software to perform dose projections in the event of a release from a nuclear power facility. The adoption results in a common dose assessment program for the FENOC Fleet and the state. MIDAS includes mapping of impacted

areas, better meteorological dispersion and deposition footprints, and the ability to project the dose from multiple accidents occurring simultaneously.

Mr. Peter Hill attended a MIDAS Users Group Meeting April 29 and 30, 2014. He met with MIDAS software users from throughout the industry to share ideas, issues, and potential improvements with each other and the software developers from ABS Consulting.

Mr. Peter Hill and Ms. Cheryl Chubb traveled to New Mexico with Ms. Pam Hintz from the Ohio Department of Health to attend Assessment Scientist 100 training on the TurboFRMAC software package which can be utilized for dose assessment in the intermediate and recovery phases of a radiological incident. By obtaining and maintaining TurboFRMAC certification the State of Ohio will be able to integrate with the FRMAC scientists in the event of an incident, meaning Ohio has a common dose assessment program with our federal partners.

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 (RAT) 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 2014 there were two evaluated exercises in which Ohio EPA participated or observed. Ohio participated in the drill and evaluation for the Beaver Valley Hostile Action Based exercise. Ohio EPA also observed the Michigan Fermi II HAB exercise. The Ingestion plan was not exercised in 2014, and the Ohio EPA field teams did not deploy for any exercise. Normal training activities did occur.

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:

Vibrant Response August 9-16, 2013

Radiological Assessment Team and Ingestion Training October 3, 2013

Beaver Valley HAB dry run April 1, 2014

Fermi II Hostile Action Exercise Observed, April 29, 2014

RAT training was conducted at OSU Stone Laboratory June 4-6, 2014.

Beaver Valley HAB exercise June 17, 2014

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 several Hazardous Materials Specialists and three supervisors 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.