

2020

URSB of Ohio Annual Report

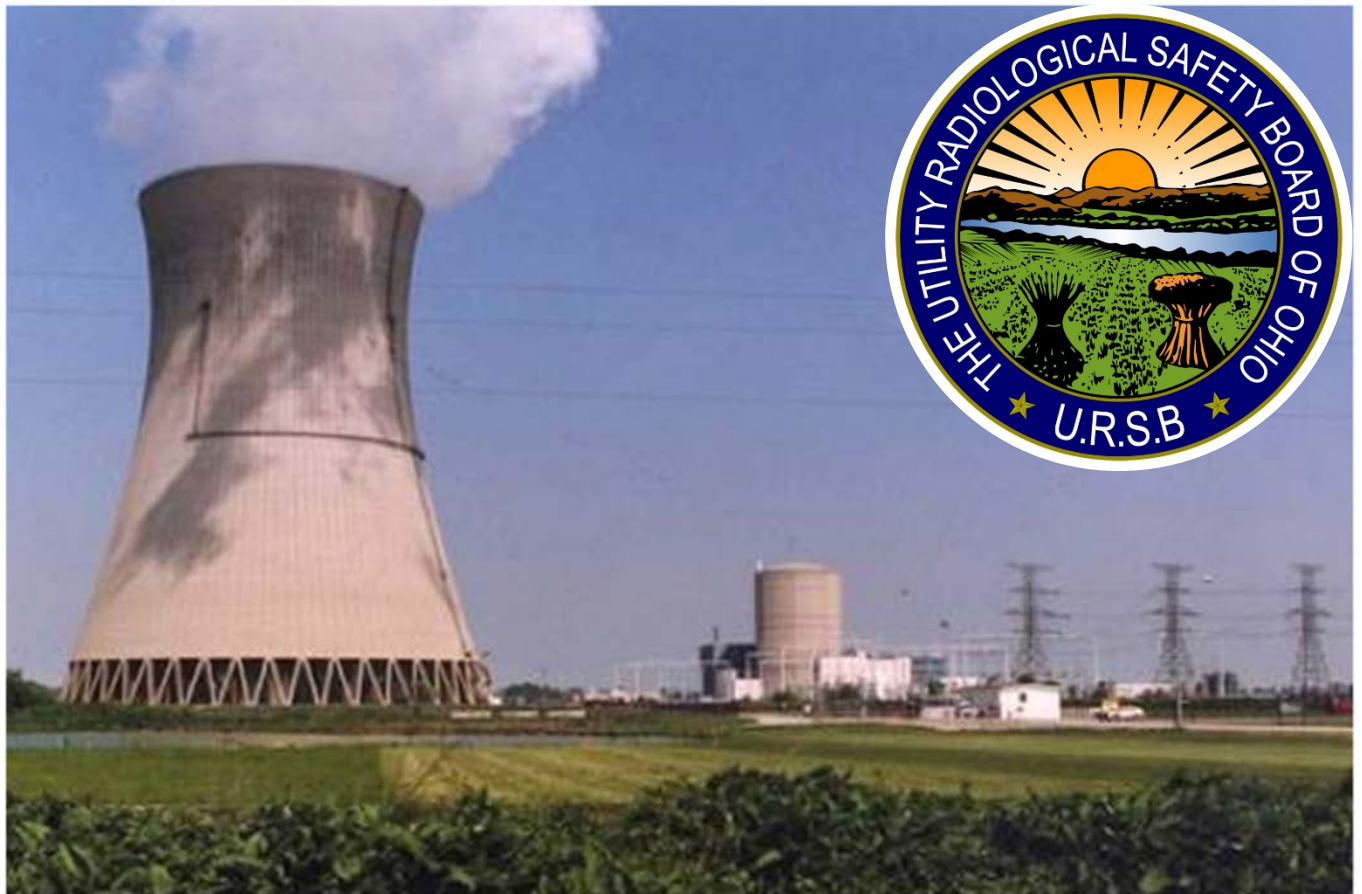


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REPORT FROM THE CHAIRMAN





Utility Radiological Safety Board of Ohio

REPORT TO THE GOVERNOR AND GENERAL ASSEMBLY

Governor Mike DeWine and Members of the Ohio General Assembly:

The member agencies of the Utility Radiological Safety Board (URSB) of Ohio - Departments of Agriculture, Health, Commerce, Emergency Management, Environmental Protection, and the Public Utilities Commission are pleased to present the 2020 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 details the actions of the Board toward the accomplishment of these goals.

During SFY2020, the URSB held three statutory meetings. The URSB board meetings were held at the Ohio Emergency Management Agency offices in Columbus on: July 8, 2019, October 15, 2019, and January 13, 2020. The April 13, 2020 meeting was cancelled due to the statewide Covid-19 response.

There were no classifiable events in SFY2020 for nuclear power plants affecting Ohio.

There was one Federal Emergency Management Agency (FEMA) evaluated exercise in SFY2020.

On October 23, 2019, FEMA evaluated a Relocation, Reentry and Return (RRR) exercise for the Davis Besse Nuclear Power Station, the exercise was a success with no findings or recommendations for improvement.

The URSB continues to 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,

SIMA S. MERICK
Chair

SSM/pwh

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.

Board meetings are held quarterly at the offices of the Ohio Emergency Management Agency at 2855 West Dublin-Granville Road, Columbus, Ohio, or can be held virtually, with public access via the URSB website. 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 SFY19 and their respective designees are listed below:

Ohio Department of Agriculture
Ms. Dorothy Pelanda, Director
Ms. Terri Gerhardt, Designee

Ohio Emergency Management Agency
Ms. Sima Merick, Director
Ms. Holly Welch, Designee

Ohio Department of Commerce
Ms. Sheryl Maxfield, Director
Mr. John Sharier, Designee

Ohio Environmental Protection Agency
Ms. Laurie A. Stevenson, Director
Mr. James Sferra, Designee

Ohio Department of Health
Mr. Lance Himes, Interim Director
Ms. Rebecca Fugitt, Designee

Public Utilities Commission of Ohio
Mr. Sam Randazzo,
Mr. John Williams, Designee

URSB ACTIONS AND ACTIVITIES



SUMMARY OF URSB ACTIONS AND ACTIVITIES:

Statutory Meetings:

During SFY2020, the URSB held three statutory meetings. The URSB board meetings were held at the Ohio Emergency Management Agency offices in Columbus on: July 8, 2019, October 15, 2019, and January 13, 2020. The scheduled April 13, 2020 meeting was cancelled due to activities surrounding COVID-19.

At each meeting member agencies report on; planning, training, drills, and exercises which have been conducted in support of Radiological Emergency Preparedness for response to incidents at a nuclear power facility that could impact Ohio.

The Nuclear Regulatory Commission state liaison attends, and will make a report on any inspections conducted by their resident inspectors, and by inspection teams through the NRC nuclear power oversight program. The liaison also reports any findings and any additional inspections required because of those findings.

A liaison of the nuclear utility also reports on any activities and incidents that occurred at the power plants affecting Ohio, and any future inspection and maintenance evolutions which the URSB may wish to observe have questions on. During SFY2020, the FirstEnergy Nuclear Operating Company (FENOC) emerged from bankruptcy restructuring as Energy Harbor Nuclear (EHN). EHN operates the former FENOC plants, with no interruption in service or operations taking place during the transition. Additional details from these meetings are available by contacting the URSB Secretary at 614-889-7150, or on the Utility Radiological Safety Board website at <http://www.ursb.ohio.gov/index.stm>

Recommendations Received by the Board:

There were no recommendations received for action by the board in state fiscal year 2019.

Board Resolutions:

There were no resolutions made by the board in state fiscal year 2019.

Board Requested Testimony:

The board did not request any specific testimony by any individual, or the utility in state fiscal year 2020

Questions from the Public:

There were no questions from the public in state fiscal year 2020.

URSB JOINT INSPECTION OBSERVATION PROGRAM



URSB JOINT INSPECTION OBSERVATION PROGRAM

**Ohio Department of Health, Bureau of Environmental Health and
Radiation Protection
July 2020**

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 Nuclear Regulatory Commission (NRC) inspections of Perry Nuclear Power Plant (PNPP) and Davis-Besse Nuclear Power Station (DBNPS). Under “adjacent state observation” status, a second agreement with NRC Region I allow JIOP participants to observe NRC inspections at the Beaver Valley Power Station (BVPS). A guideline 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 State Fiscal Year 2020 the URSB JIOP participants observed six NRC inspections.

URSB JIOP Goals and Objectives

1. 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.

2. 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.

3. To inform the URSB about which inspections were observed during each quarter.

JIOP INSPECTIONS FY2020 (July 1, 2019 to June 30, 2020)

JIOP Number	Date(s)	Inspection	Agency
2020-PNPP-001	July 22-26, 2019	Radioactive Gaseous & Liquid Effluent; and Radiological Environmental Monitoring Program	ODH
2020-DBNPS-001	August 19-22, 2019	Radioactive Gaseous & Liquid Effluent; and Radiological Environmental Monitoring Program	ODH
2020-DBNPS-002	October 21 – 25, 2019	Rad Solid Waste Processing & RAM Handling/Storage/Transportation	ODH
2020-BVPS-001	October 21 – 24, 2019	Radiological Hazard Assessment & Exposure Controls; and Occupational ALARA Planning & Controls	ODH
2020-PNPP-002	October 28 – Nov 1, 2019	Occupational ALARA Planning & Controls	ODH
2020-DBNPS-003	December 9 - 13, 2019	In-Plant Airborne Radioactivity Control & Mitigation; and Occupational Dose Assessment	ODH
2020-DBNPS-004*	March 6, 2020	Radiological Hazard Assessment & Exposure Controls; and Occupational ALARA Planning & Controls	ODH
2020-PNPP-003*	May 8, 2020	In-Plant Airborne Radioactivity Control & Mitigation; and Occupational Dose Assessment	ODH

*No observation at the site. ODH participated in exit meeting via phone.

FINANCIAL REPORT



DESCRIPTION	SFY16	SFY17	SFY18	SFY19	SFY20
<i>Appropriations</i>					
Emergency Management	\$1,415,945	\$1,235,241	\$1,157,386	\$1,188,475	\$1,206,973
Health	\$1,041,179	\$1,127,707	\$1,144,546	\$1,157,262	\$1,270,842
Environmental Protection	\$300,531	\$306,164	\$332,403	\$352,430	\$276,500
Agriculture	\$125,000	\$125,176	\$91,400	\$96,038	\$92,610
Commerce [♦]					
Public Utilities Commission [♦]					
Total Appropriation	\$2,882,655	\$2,794,288	\$2,725,735	\$2,794,205	\$2,846,925
<i>Expenditures</i>					
Emergency Management	\$1,149,214	\$1,045,058	\$990,309	\$1,154,278	\$1,043,074
Health	\$1,033,681	\$1,127,707	\$1,144,546	\$1,157,262	\$1,208,328
Environmental Protection	\$312,561	\$252,056	\$125,229	\$276,984	\$174,774
Agriculture	\$121,756	\$109,731	\$91,310	\$95,124	\$92,610
Commerce [♦]					
Public Utilities Commission [♦]					
Total Expense (Year-end Balance)	\$2,617,212	\$2,534,552	\$2,351,394	\$2,598,036	\$2,518,786

♦ Denotes agency does not receive funding from FENOC/EHN

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. ODA also promotes 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, and processed foods 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 provides emergency response information.

Nuclear Power Plant Emergency Planning

ODA attends monthly Nuclear Power Plan Intermediate Planning (NPPIP) meetings, Nuclear Power Plant Emergency Planning (NPPEP) 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 December of 2019, and was distributed by ODA in January 2020. 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 also participated on applicable committees in support of the URSB.

OHIO DEPARTMENT OF COMMERCE DIVISION OF INDUSTRIAL COMPLIANCE

The Ohio Department of Commerce focuses on assisting businesses in their efforts to comply with Ohio laws and regulations and helping to ensure the safety of Ohioans. The Division of Industrial Compliance is one of eight operating divisions that make up the Ohio Department of Commerce. The Division has a wide variety of programs and responsibilities within its purview, including:

- The Division reviews building plans for the construction & renovation of commercial & public building projects; conducts inspections of plumbing, electrical and structural systems.
- The Division inspects mechanical systems including steam engines and boilers, hydronics, escalators, elevators and the lifts inside structures for wind turbines;
- The Division provides testing and inspection of bedding, upholstered furniture and stuffed toys; annual inspection of ski lifts and roller-skating rinks.
- The Division investigates complaints related to the Ohio minimum wage, prevailing wage and the employment of minors in Ohio.
- The Division regulates the installation of manufactured homes, the licensing and inspection of manufactured home parks, and the certification of manufactured home installers and inspectors.

The Division of Industrial Compliance also works closely with:

- The Board of Building Standards, which sets the building code for the State of Ohio and provides training and certification for local building authorities across Ohio;
- The Board of Building Appeals, which adjudicates variance requests that pertain to the Ohio Building Code;
- The Ohio Construction Industry Licensing Board, which provides testing and licensure of certain trades within the commercial construction industry.

URSB Involvement

The Ohio Department of Commerce is a member of the Ohio Utility Radiological Safety Board (URSB). The Department is committed to helping ensure the safety of the citizens of and visitors to Ohio by monitoring the Davis-Besse and Perry nuclear power plants' quality assurance programs.

Agency-Specific Activities

The Ohio Revised Code requires an owner of a nuclear power plant to maintain the plant and to safely and expeditiously return the plant to service following plant outages. As part of this requirement, owners of nuclear power plants must develop and implement a quality assurance program that includes regular examinations, testing, and inspections.

The program must also:

- (a) Provide access in the design and arrangement of the plant to conduct the examinations and tests;
- (b) Develop plans and schedules for the examinations, tests, and inspections, including detailed examination and testing procedures for filing with the enforcement and regulatory authorities having jurisdiction at the plant site;
- (c) Conduct the examination and tests, including system leakage tests, hydrostatic pressure tests, and in-service tests of pumps and valves;
- (d) Create records of the results of the examinations and tests, including any corrective actions required and any remedial steps taken.

The Ohio Department of Commerce is charged with verifying that nuclear power plant owners are complying with all the requirements of the Ohio Revised Code and Section XI of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code. The Department’s Authorized Nuclear In-service Inspector (ANII) is responsible for doing such verification, and during SFY20, the Authorized Nuclear In-service Inspector:

- Witnessed pressure tests
- Reviewed nondestructive examination procedures and repair programs
- Verified that the visual examinations and tests on pumps and valves had been completed and the results recorded

Future Activities

The Ohio Department of Commerce’s staff will continue to monitor the Davis-Besse and Perry nuclear power plants and provide technical assistance to the URSB when questions arise regarding the requirements for boilers and related mechanical systems under Ohio law or the ASME Boiler and Pressure Vessel Code.

OHIO DEPARTMENT OF HEALTH

The Ohio Department of Health (ODH) is designated the Ohio radiation control agency in accordance with Ohio Revised Code 3748.02. The Ohio Department of Health, Bureau of Environmental Health and Radiation Protection (ODH-BEHRP) provides support to the Utility Radiological Safety Board (URSB) through its statutory functions in matters of radiation protection. ODH-BEHRP serves as the lead state agency on all health physics and agreement state 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 working groups.

Nuclear Power Plant Emergency Response Exercises

ODH-BEHRP staff regularly participates in nuclear power plant exercises, however due to COVID-19 the exercise with the Beaver Valley Power Station scheduled for June 2020 was postponed until state fiscal year (SFY) 2021. Training for the exercise was almost complete when remaining activities were postponed.

Medical Service (MS-1) exercises are routinely observed by ODH-BEHRP staff at designated hospitals inside the 10-mile Emergency Planning Zone. In state fiscal year 2020 (SFY2020), ODH-BEHRP staff observed four MS-1 exercises. Two evaluated MS-1 drills for the Perry Nuclear Power Plant were conducted on October 2, 2019 (West Medical Center and Tri Point Medical Center), one for Beaver Valley Power Station on October 8, 2019 (Salem Regional Medical Center) and one for Davis-Besse Nuclear Power Station on October 22, 2019 (Mercy St. Charles Hospital). All four hospitals were determined to be adequately prepared to treat an injured individual contaminated with radioactive material.

Emergency Preparedness Activities

ODH BEHRP staff attended monthly Nuclear Power Plant Emergency Planning meetings although April, May and June of 2020 meetings were cancelled due to COVID-19. ODH-BEHRP staff attended quarterly Nuclear Emergency Planning Advisory Committee (NEPAC) meetings except April 2020 as it was cancelled. 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-BEHRP regularly joins with other state agencies and Energy Harbor in development and training activities. SFY 2020 included attendance at the Beaver Valley Power Station (BVPS) Offsite Agency Training Session (OATS) in August 2019.

Joint Inspection Observation Program (JIOP)

ODH-BEHRP staff participates with the United States Nuclear Regulatory Commission (NRC) in the Joint Inspection Observation Program (JIOP) inspections. Six JIOPs covering six topic areas were completed by ODH staff in SFY 2020. 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

The utility and state moved from MIDAS dose assessment software to URI-RASCAL dose assessment software and initial training for the state dose assessors was held on September 4, 2019. State procedures for dose assessment required an extensive re-write and were completed. ODH-BEHRP has seen the benefit of participating in the power plant integrated drills. In SFY 2020 ODH-BEHRP participated in a total of 4 integrated drills with the power plants.

Potassium Iodide (KI)

Ohio’s emergency worker KI was set to expire in December 2019 and the general public KI was set to expire in April 2020. ODH sent out a sampling of each lot to a certified laboratory to be tested per the FDA shelf-life extension requirements. The assay results showed that the tablets remain potent and usable for its intended purpose as a thyroid blocking agent. Therefore, the expiration dates have been extended to December 31, 2021. The new supply of KI from the NRC arrived partially in March with another shipment scheduled to arrive in July 2020. The plastic bags and extra inserts for separation from the original packaging are on order and distribution to the host counties will be forthcoming.

Radiological Environmental Monitoring Activities

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

Due to COVID-19 and other internal issues, calibration verifications of the dry gas meters used for air sampling were performed for 5 out of the 7 sampling locations. The remaining 2 sampling locations are currently scheduled for calibration verification in SFY 2021. No equipment was replaced for the 5 locations evaluated in this fiscal year. 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. All environmental contractor audits for SFY 2020 were completed.

Other Related Items

A member of the ODH-BEHRP staff attended the FEMA Region V Scheduling Conference in November 2019. The conference featured speakers from FEMA Region V, FEMA Headquarters, NRC, and various states.

Due to COVID-19, the National Radiological Emergency Preparedness (NREP) Conference was cancelled that was schedule for April 2020 in Nashville, TN.

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 Utility Radiological Safety Board (URSB).

The Radiological Branch Chief serves as the State Liaison Officer to the Nuclear Regulatory Commission for the State of Ohio.

The Ohio EMA is organized into five Divisions: Communications, Operations, Preparedness, Administration, and Fiscal, which work together, to accomplish its mission. The Communications Division and Fiscal Division operate independently. The Preparedness Division consists of the Radiological, Logistics, Public Affairs, and Planning Training & Exercise Branches. The Administration Division consists of Grants, Mitigation, and Recovery Branches. The Operations Division consists of the Watch Office and Regional Operations Branches and has responsibility for the State Emergency Operations Center (SEOC). 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, coordinates the transport of spent fuel and high-level radioactive materials across Ohio, and is the coordinating agency for the Ohio Radiological Nuclear Detection program.

Nuclear Power Plant Incidents

Ohio EMA in conjunction with the Ohio State Highway Patrol Dispatch is the initial point of notification for all declared incidents concerning the nuclear power plants that affect Ohio. In SFY 2020, there were no classifiable events.

Events of Potential Public Interest

Ohio EMA is also the point of contact for the nuclear power plants for Events of Potential Public Interest (EPPI), which are events that are not classified under the Emergency Classification Levels, but may still rise to the level of public concern. Ohio EMA disseminates these events to the member agencies, Nuclear Regulatory Commission (NRC), Federal Emergency Management Agency (FEMA), and other concerned parties. There were thirty-eight EPPIs in SFY 2020, the majority of which were for emergency medical service for non-work related conditions.

Nuclear Power Plant Exercises and Drills

Ohio EMA is responsible for the design, coordination, and execution of Radiological Emergency Preparedness (REP) Evaluated Exercises in Ohio. These FEMA evaluated exercises are a required part of the REP program. In addition to the large graded exercises there are numerous drills conducted throughout the year to ensure that the State of Ohio and the counties surrounding our nuclear power plants are prepared at and above FEMA standards.

There was one Federal Emergency Management Agency (FEMA) evaluated exercise in SFY2020.

On October 23, 2019, FEMA evaluated a Relocation, Reentry and Return (RRR) exercise for the Davis Besse Nuclear Power Station, The exercise was a success with no findings or recommendations for improvement.

Drills

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

- Perry Nuclear Power Plant:
 - 11/12/2019
 - 4/15/2020 Integrated Drill CANCELLED Due to COVID-19.
- Beaver Valley Power Station:
 - 9/12/2019
 - 11/21/2019
 - 5/13/2020 Dry Run POSTPONED until 10/15/2020.
 - 6/11/2020 Evaluated exercise POSTPONED until 11/10/2020.
- Davis-Besse Nuclear Power Station
 - 9/17/2019
 - 10/15/2019
 - 5/5/2020 Integrated Drill CANCELLED.
- Field Monitoring Team Drills
 - 5/13/2020 FMT Dry Run POSTPONED until 2021.

Radiological Instrumentation Maintenance and Calibration

The Radiological Maintenance and Calibration Laboratory (RIMC) is moving from Ohio State University and construction has begun a new lab space at Ohio EMA.

National Radiological Emergency Preparedness Conference (NREP)

The NREP 2020 conference was cancelled due to COVID-19.

Emergency Planning

The 2020 State REP Plan revision was submitted to FEMA for review in January 2020. In addition to the state plan, the plans for counties were submitted along with their supporting Standard Operating Procedures. This plan has been approved by FEMA.

Common Dose Assessment

Peter Hill and Cheryl Chubb continued their training as Federal Radiological Monitoring and Assessment Center (FRMAC) Assessment Scientists with continuing education quarterly with the Department of Energy's Emergency Operations Training Academy. Maintaining TurboFRMAC certification will enable the State of Ohio to integrate with the FRMAC scientists in the event of an incident.

Regulatory Review

Members of the Radiological Branch of Ohio EMA review hundreds of documents from the NRC, FEMA, FirstEnergy Nuclear Operation Group (FENOC), and other State, County and Federal agencies every year.

OHIO ENVIRONMENTAL PROTECTION AGENCY

The Ohio Environmental Protection Agency (Ohio EPA) 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, Ohio EPA 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 (NPDES), 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, the nuclear plants sample ground water on and around the facilities to ensure there is no contaminant migration off the plant site into 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 and drills with other state agencies.

From July 2019 to June 2020 Ohio EPA participated in the following events:

Beaver Valley Nuclear Power Station (BVNPS)

- On September 12 and November 21, 2019 Ohio EPA participated in BVNPS Integrated Drills.
- On January 30, 2020, Ohio EPA participated in BVNPS Systems Training and Dose Assessment Training at Ohio EMA.

Other Trainings:

- On July 24, 2019, Ohio EPA attended a RadResponder Workshop for RAT at Ohio Department of Agriculture's campus. An introductory training on the REP was given, along with an introduction to radiation basics and health effects. The training concluded with a grid survey exercise utilizing RadResponder.

- On August 6 and 7, 2019, Ohio EPA participated in the Vigilant Guard Exercise at the National Center for Medical Readiness at Calamityville in Fairborn, OH.
- On September 3 and 25, 2019, Ohio EPA participated in the URI RASCAL training.
- On February 26, 2020, Ohio EPA participated in a RadResponder Training Workshop held at Ohio EMA which was hosted by ODH and Ohio EMA.
- On February 27, 2020, Ohio EPA participated in an Executive Room Roles Training hosted by Ohio EMA.

Ohio EPA RAT Members have completed a variety of online trainings associated with radiological preparedness and emergency response throughout this reporting year.

Ohio EPA has participated in all of the Nuclear Power Plant Emergency Planning (NPPEP) Meetings, Nuclear Emergency Planning Advisory Committee (NEPAC) Meetings, Utility Radiological Safety Board (URSB) Meetings, and Radiological Technology Working Group Meetings that were held throughout this reporting year.

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 PUCO has been designated 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 transportation of hazardous materials, including radioactive materials. Transportation Department staff are 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, signals 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 and 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.

FY 2020 Accomplishments:

- Attended Quarterly URSB meetings
- Maintained a “Rad” coordinator to manage the PUCO’s collective involvement and multiagency efforts dealing with Radiological safety and training.
- Active participant with Ohio EMA Nuclear Power Plan Emergency Planning (NPPEP) working group to include representing the PUCO during FEMA evaluated exercises as well as the Agency’s integration into WebEOC.
- Participated in a RadResponder Nationwide Drill at OEMA as well as continual participation in Quarterly Radiological Technology WG conference calls with the Ohio Department of Health.
- Updated smart phones issued to Hazardous Materials Investigators with “apps” specifically designed to provide quick access to radiological safety information as well as allowing readings to be viewed, recorded, and transmitted in “real-time” ensuring a safer more robust response to radiation related events or incidents.
- Transitioned from older style “whole body” film badges (TLD) to the Instadose Bluetooth enabled whole body badge. The aim of this transition is to provide a more efficient method for proper monitoring of radiation exposure of the Hazardous Materials Investigators to ensure minimal accumulated dose levels are maintained.
- Participated in Spent Nuclear Fuel Rail/Routing Ad Hoc Working Group as part of an ongoing cooperative effort between CSG Midwest/DOE/NRC