

Final After Action Report/ Improvement Plan

Exercise Date – September 18, 2018

Radiological Emergency Preparedness (REP) Program



Perry Nuclear Power Plant



FEMA

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EXECUTIVE SUMMARY

On September 18, 2018, the Department of Homeland Security, Federal Emergency Management Agency (FEMA) Region V evaluated a Radiological Emergency Preparedness Program, Full-Participation, Plume Exposure Pathway Exercise in the Emergency Planning Zone (EPZ) for the Perry Nuclear Power Plant (PNPP).

The PNPP plant is located 35 miles east of Cleveland, Ohio. The 10-mile Plume Exposure Pathway EPZ of the PNPP encompasses land areas of Lake, Ashtabula, and Geauga Counties and Lake Erie.

The purpose of the exercise was to assess the level of state and local preparedness in responding to an incident at PNPP. This exercise was conducted in accordance with FEMA's policies and guidance concerning the exercise of State and Local radiological emergency response plans and procedures. The previous federally-evaluated exercise at this site was conducted on September 13, 2016. The qualifying emergency preparedness exercise was conducted on November 28, 1984.

Officials and representatives from the State of Ohio and the risk counties of Ashtabula, Geauga, and Lake and the Licensee participated in this exercise. State and Local officials demonstrated knowledge of their emergency response plans and procedures and successfully implemented them. The FEMA evaluation team identified one Level 2 Finding and one Plan Issue for the State of Ohio during the exercise. The Level 2 Finding was successfully redemonstrated during the exercise. The Plan Issue was corrected prior to the issuing of this report. Both issues are closed as a result of the timely corrective actions taken. No Findings or Plan Issues were identified for Lake, Ashtabula, and Geauga Counties as a result of the 2018 PNPP Exercise.

The Federal Emergency Management Agency wishes to acknowledge the efforts of the many individuals who participated in the exercise and made it a success. Approximately 540 individuals participated in the offsite portion of the exercise, of which about one-third were local volunteers. The professionalism and teamwork of the participants was evident throughout all phases of the exercise.

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SECTION 1: Exercise Overview

The DHS/FEMA's responsibilities in radiological emergency planning for fixed nuclear facilities include the following:

- Taking the lead in offsite emergency planning and in the review and evaluation of Radiological Emergency Preparedness Plans (RERPs) and procedures developed by State and local governments;
- Determining whether such plans and procedures can be implemented on the basis of observation and evaluation of exercises of the plans and procedures conducted by State and local governments;
- Responding to requests by the U.S. Nuclear Regulatory Commission (NRC) pursuant to the Memorandum of Understanding between the NRC and FEMA dated December 7, 2015 (Federal Register, Vol. 82, No. 88, May 9, 2017); and
- Coordinating the activities of Federal agencies with responsibilities in the radiological emergency planning process:
 - U.S. Department of Agriculture;
 - U.S. Department of Commerce;
 - U.S. Department of Energy;
 - U.S. Department of Health and Human Services;
 - U.S. Department of the Interior;
 - U.S. Department of Transportation;
 - U.S. Environmental Protection Agency;
 - U.S. Food and Drug Administration; and
 - U.S. Nuclear Regulatory Commission.

Representatives of these agencies serve on the DHS/FEMA Region V Regional Assistance Committee (RAC), which is chaired by DHS/FEMA.

A REP Full-Participation Plume Exposure Pathway Exercise was conducted on September 18, 2018, and evaluated by the DHS/FEMA to assess the capabilities of State and Local offsite emergency preparedness organizations in implementing their RERPs and procedures to protect the public's health and safety during a radiological emergency involving the Perry Nuclear Power Plant. The purpose of this exercise report is to present the exercise results and findings on the performance of the Offsite Response Organizations (ORO) during a simulated radiological emergency.

The findings presented in this report are based on the evaluations of the Federal evaluation team, with final determinations made by the DHS/FEMA Region V RAC Chair, and approved by the DHS/FEMA Headquarters.

The criteria utilized in the FEMA evaluation process are contained in:

- NUREG-0654/FEMA-REP-1, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980; and
- FEMA P-1028 REP Program Manual, dated January 2016.

1.1 EXERCISE DETAILS

EXERCISE NAME

2018 Perry Nuclear Power Plant Radiological Emergency Preparedness (REP), Full-Participation, Plume Exposure Pathway Exercise

TYPE OF EXERCISE

Plume Exposure Pathway

EXERCISE DATE

September 18, 2018

LOCATIONS

See Appendices C and E for a complete list of locations.

SPONSORS

Ohio Emergency Management Agency
2855 West Dublin-Granville Road
Columbus, Ohio 43235

FirstEnergy Nuclear Operating Company – Perry Nuclear Power Plant
10 Center Rd
Perry, Ohio 44081

PROGRAM

Department Of Homeland Security/Federal Emergency Management Agency Radiological
Emergency Preparedness Program

MISSION

Response

SCENARIO TYPE

Radiological Emergency

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1.3 PARTICIPATING ORGANIZATIONS

Agencies and organizations of the following jurisdictions participated in the exercise:

STATE ORGANIZATIONS

- Ohio Department of Aging
- Ohio Department of Agriculture
- Ohio Department of Developmental Disabilities
- Ohio Department of Health
- Ohio Department of Job and Family Services
- Ohio Department of Medicaid
- Ohio Department of Mental Health and Addiction Services
- Ohio Department of Natural Resources
- Ohio Department of Public Safety
- Ohio Department of Transportation
- Ohio Department of Youth Services
- Ohio Emergency Management Agency
- Ohio Environmental Protection Agency
- Ohio National Guard
- Ohio State Highway Patrol
- Ohio State Fire Marshal
- Ohio State University Extension
- Ohio Voluntary Organizations Active in Disaster

RISK COUNTY ORGANIZATIONS

Lake County

- Lake County Board of Commissioners
- Lake County Emergency Management Agency
- Lake County Engineers
- Lake County Field Monitoring Teams
- Lake County General Health District
- Lake County Geographical Information Systems Department
- Lake County Public Information Office
- Lake County School District
- Lake County Sheriff's Central Communications Center
- Lake County Sheriff's Office
- Lake County Utilities Department

Local Organizations

- Painesville City Schools (Evacuation of Schools)
- Riverside Local Schools (Evacuation of Schools)
- Fairport Harbor Police Department (Traffic & Access Control)
- Grand River Police Department (Traffic & Access Control)
- Leroy Township Fire Department (Backup Route Alerting)
- Mentor City Fire Department (Emergency Worker Monitoring/Decontamination)

Ashtabula County

Ashtabula County Board of Commissioners
Ashtabula County Board of Developmental Disabilities
Ashtabula County Department of Jobs and Family Services
Ashtabula County Department of Transportation
Ashtabula County Emergency Medical Services – Northwest District
Ashtabula County Emergency Management Agency
Ashtabula County Health Department
Ashtabula County Job & Family Services
Ashtabula County Sheriff's Dispatch Center
Ashtabula County Sheriff's Office

Local Organizations

Edgewood Senior High School (Congregate Care Center)
Geneva-on-the-Lake Fire Department (Backup Route Alerting)
Geneva-on-the-Lake Police Department (Traffic & Access Control)

Geauga County

Geauga County Board of Commissioners
Geauga County Department of Emergency Services
Geauga County Engineers
Geauga County Health Department
Geauga County Schools
Geauga County Sheriff's Dispatch Center
Geauga County Sheriff's Office

Local Organizations

Thompson Fire Department (Backup Route Alerting)
Montville Fire Department (Backup Route Alerting)

Other Support Jurisdictions

Michigan Department of Environmental Quality
Ottawa County Emergency Management Agency
Erie County Emergency Management Agency
Lucas County Emergency Management Agency

PRIVATE ORGANIZATIONS

American Red Cross – Ashtabula Chapter
American Red Cross – Lake-to-River Chapter (Geauga County)
American Red Cross – Crossroads Division
Civil Air Patrol (CAP)
Ohio AuxComm Team – W8SGT
Lake County Amateur Radio Association
Ashtabula County Amateur Radio Club
Geauga Amateur Radio Association
FirstEnergy Nuclear Operating Company, LLC
Lake County Hospitals
Salvation Army
University Hospitals Health Services – Geauga County

FEDERAL ORGANIZATIONS

- U.S. Army – North – Defense Coordinating Element – Region 5
- U.S. Coast Guard (USCG) – Sector Buffalo
- U.S. Department of Homeland Security/Federal Emergency Management Agency
- U.S. Nuclear Regulatory Commission – Region III

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SECTION 2: Exercise Design Summary

2.1 EXERCISE PURPOSE AND DESIGN

The Federal Emergency Management Agency (FEMA) administers the Radiological Emergency Preparedness (REP) Program pursuant to the regulations found in Title 44 Code of Federal Regulation (CFR) parts 350, 351, and 352. Title 44 CFR Part 350 names sixteen planning standards that form the basis for radiological emergency response planning for state, tribal, and local governments impacted by the EPZs established for each nuclear power plant site in the United States. Title 44 CFR Part 350 sets forth the mechanisms for the formal review and approval of state, tribal, and local government radiological emergency response plans and procedures by FEMA. One of the REP Program requirements established by these regulations is the biennial exercise of offsite response capabilities. During these exercises, FEMA evaluates state, tribal, and local government plans, procedures, and actions to protect the health and safety of the public in the event of a radiological emergency at the nuclear plant.

FEMA provides a statement with the transmission of this Final AAR/IP to the United States NRC that the affected state, tribal, and local plans and preparedness are: (1) adequate to protect the health and safety of the public living in the vicinity of the nuclear power facility by providing reasonable assurance that appropriate protective measures can be taken offsite in the event of a radiological emergency; and (2) capable of being implemented. The report and statement are based on the results of this exercise, review of the radiological emergency response plans and procedures, and verification of the periodic requirements set forth in *"Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980* (NUREG-0654/FEMA-REP-1, Rev. 1) through the annual letter of certification and staff assistance visits,

Formal submission of the radiological emergency response plans for the Perry Nuclear Power Plant to FEMA Region V by the State of Ohio and Ashtabula, Geauga and Lake Counties occurred on May 24, 1989. Formal approval of these RERPs was granted by FEMA on June 17, 1994, under 44 CFR 350.

2.2 FEMA CORE CAPABILITIES AND EXERCISE OBJECTIVES

Core Capabilities-based planning allows for exercise planning teams to develop exercise objectives and observe exercise outcomes through a framework of specific action items. Using the Homeland Security Exercise and Evaluation Program methodology, the exercise objectives meet the Radiological Emergency Preparedness Program requirements and encompass the emergency preparedness evaluation areas. The critical tasks to be demonstrated were negotiated with the State of Ohio and Ashtabula, Geauga and Lake Counties. The Core Capabilities demonstrated during this exercise were:

Operational Coordination: Establish and maintain a unified and coordinated operational structure and process that appropriately integrates all critical stakeholders and supports the execution of Core Capabilities. Mobilize all critical resources and establish command, control, and coordination structures within the affected community, in other coordinating bodies in surrounding communities, and across the Nation, and maintain as needed throughout the duration of an incident. Enhance and maintain command, control, and coordination structures consistent with the National Incident Management System (NIMS) to meet basic human needs, stabilize the incident, and transition to recovery.

Situational Assessment: Provide all decision makers with decision-relevant information regarding the nature and extent of the hazard, any cascading effects, and the status of the response. Deliver information

sufficient to inform decision making regarding immediate lifesaving and life-sustaining activities, and engage governmental, private, and civic sector resources within and outside of the affected area to meet basic human needs and stabilize the incident. Deliver enhanced information to reinforce ongoing lifesaving and life-sustaining activities, and engage governmental, private, and civic sector resources within and outside of the affected area to meet basic human needs, stabilize the incident, and transition to recovery.

Public Information and Warning: Deliver coordinated, prompt, reliable, and actionable information to the whole community through the use of clear, consistent, accessible, and culturally and linguistically appropriate methods to effectively relay information regarding any threat or hazard and, as appropriate, the actions being taken and the assistance being made available. Inform all affected segments of society of critical lifesaving and life-sustaining information by all means necessary, including accessible tools, to expedite the delivery of emergency services and aid the public to take protective actions. Deliver credible and actionable messages to inform ongoing emergency services and the public about protective measures and other life-sustaining actions, and facilitate the transition to recovery.

Environmental Response/Health and Safety: Conduct appropriate measures to ensure the protection of the health and safety of the public and workers, as well as the environment, from all-hazards in support of responder operations and the affected communities. Identify, assess, and mitigate worker health and safety hazards, and disseminate health and safety guidance and resources to response and recovery workers. Minimize public exposure to environmental hazards through assessment of the hazards and implementation of public protective actions. Detect, assess, stabilize, and clean up releases of oil and hazardous materials into the environment, including buildings/structures, and properly manage waste. Identify, evaluate, and implement measures to prevent and minimize impacts to the environment, natural and cultural resources, and historic properties from all-hazard emergencies and response operations.

On-Scene Security, Protection, and Law Enforcement: Ensure a safe and secure environment through law enforcement and related security and protection operations for people and communities located within affected areas and also for response personnel engaged in lifesaving and life-sustaining operations. Establish a safe and secure environment in an affected area. Provide and maintain on-scene security and meet the protection needs of the affected population over a geographically dispersed area while eliminating or mitigating the risk of further damage to persons, property, and the environment.

Critical Transportation: Provide transportation (including infrastructure access and accessible transportation services) for response priority objectives, including the evacuation of people and animals, and the delivery of vital response personnel, equipment, and services into the affected areas. Establish physical access through appropriate transportation corridors and deliver required resources to save lives and to meet the needs of disaster survivors. Ensure basic human needs are met, stabilize the incident, transition into recovery for an affected area, and restore basic services and community functionality. Clear debris from any route type (i.e., road, rail, airfield, port facility, waterway) to facilitate response operations.

Mass Care Services: Provide life-sustaining and human services to the affected population, to include hydration, feeding, sheltering, temporary housing, evacuee support, reunification, and distribution of emergency supplies. Move and deliver resources and capabilities to meet the needs of disaster survivors, including individuals with access and functional needs. Establish, staff, and equip emergency shelters and other temporary housing options (including accessible housing) for the affected population. Move from congregate care to non-congregate care alternatives and provide relocation assistance or interim housing solutions for families unable to return to their pre-disaster homes.

Operational Communications: Ensure the capacity for timely communications in support of security, situational awareness, and operations, by any and all means available, among and between affected communities in the impact area and all response forces. Ensure the capacity to communicate with both the emergency response community and the affected populations and establish interoperable voice and data communications between Federal, tribal, state, and local first responders.

Infrastructure Systems: Stabilize critical infrastructure functions, minimize health and safety threats, and efficiently restore and revitalize systems and services to support a viable, resilient community. Re-establish critical infrastructure within the affected areas to support ongoing emergency response operations, life sustainment, community functionality, and a transition to recovery. Provide for the clearance, removal, and disposal of debris. This core capability includes the capability to address roadway impediments due to landslides and other events that impair/impede safe evacuation of the public.

The Core Capabilities and their associated Evaluation Criteria selected for demonstration by the jurisdictions establish the assessment objectives for the exercise. These Core Capabilities, when successfully demonstrated, meet the exercise objectives.

The objectives for this exercise were as follows:

Objective 1: Demonstrate the ability to provide direction and control and make protective action decisions through the state emergency operations centers, county emergency operations centers, and field activities by exercise play and discussion of plans and procedures.

Objective 2: Demonstrate the ability to make protective action decisions affecting state and county emergency workers and the public through exercise play and discussion of plans and procedures.

Objective 3: Demonstrate the ability to implement protective actions for state and county emergency workers and the public through exercise play and discussion of plans and procedures.

Objective 4: Demonstrate the ability to activate the prompt alert and notification system utilizing the primary notification system and the emergency alert system through exercise play and discussion of plans and procedures.

Objective 5: Demonstrate the effectiveness of plans, policies, and procedures in the joint information centers and the joint information system for public and private sector emergency information communications through exercise play and discussion of plans and procedures.

Objective 6: Demonstrate the ability to monitor, decontaminate, register, and shelter evacuees through exercise play and discussion of plans and procedures.

Objective 7: Demonstrate the ability to provide dose projection and protective action decision making for the plume phase.

Objective 8: Demonstrate the capacity for timely communications in support of security, situational awareness, and operations in accordance with the plan, procedures, and Extent-of-Play Agreement, among and between affected communities in the impact area and all response forces.

Objective 9: Demonstrate the capacity to stabilize critical infrastructure functions, minimize health and safety threats, and efficiently restore and revitalize systems and services to support a viable, resilient community. Demonstrate the capacity to provide transportation (including infrastructure access and accessible transportation services) for response priority objectives, including the evacuation of people and animals, and the delivery of vital response personnel, equipment, and services into the affected areas.

Collectively, these nine Objectives successfully demonstrated the Core Capabilities and Evaluation Criteria selected by the jurisdictions in accordance with NUREG-0654/FEM-REP-1 and the REP Program Manual (FEMA P-1028, dated January 2016).

SECTION 3: Analysis of Capabilities

3.1 SUMMARY RESULTS OF EXERCISE EVALUATION

This section provides a combined assessment of state and local jurisdictions based upon their collective demonstrated performance under the core capabilities associated with the exercise evaluation criteria described in Appendix E Extent-of-Play Agreements. It employs an integration of the Homeland Security Exercise Evaluation Program and REP Program evaluation methodologies – an analytical process used to assess the demonstration of specific capabilities during an exercise. A capability provides a means to perform one or more critical tasks under specified conditions and to specific performance standards. Core capabilities form the foundation of the National Preparedness System. The REP Program evaluation criteria provide the conditions and performance standards for establishing reasonable assurance that State and Local authorities can protect public health and safety in response to a nuclear power plant accident.

An overall summary of demonstrated capabilities is presented in Section 3.2, Tables 3.2.1 through 3.2.8, of this report. Criteria-specific narrative summaries are presented in Section 3.3 of the report. The narratives summarize observations made pursuant to the REP Program Evaluation Criteria used to assess the organizations and locations that were selected by the State of Ohio and Ashtabula, Geauga, and Lake Counties. The organizations, locations, and evaluation criteria selected by the State of Ohio and Ashtabula, Geauga, and Lake Counties are described in Appendix E, Extent-of-Play Agreements, which were approved by DHS/FEMA on August 10, 2018.

The results of the assessment are summarized below by Core Capability, as demonstrated during the September 18, 2018, PNPP REP Full-Participation Radiological Emergency Preparedness Exercise.

Operational Coordination: Key leadership personnel established and maintained a unified and coordinated operational structure which provided effective and responsive command, direction and control and coordination within and between the affected jurisdictions to meet basic human needs and stabilize the incident.

Critical stakeholders were appropriately integrated within the overall decision-making process, which enabled protective action recommendations to be evaluated in an appropriate and timely manner. This process included input from both relevant critical stakeholders and support personnel and took into account the safety and well-being of emergency workers and the general public and protecting property and infrastructure protective action decisions were made without undue delay.

Situational Assessment: Decision makers were provided with decision-relevant information regarding the nature and extent of the simulated radiological and other hazards, any cascading effects, and the status of the response. The Ohio Emergency Management Agency, Ohio Environmental Protection Agency, and the Ohio Department of Health demonstrated proficiency in the use of dose assessment software to calculate dose projections independent of the Perry Nuclear Power Plant's dose projections. The staff calculated hypothetical dose projections based on plant conditions, possible release scenarios, and Controller-injected field monitoring team data. Leadership was prepared to gather and deliver enhanced information to reinforce lifesaving and life-sustaining activities, if needed, and engage governmental and private sector resources within and outside of the affected area to meet basic human needs and stabilize the incident, as necessary.

Public Information and Warning: The jurisdictions as a whole demonstrated the ability to deliver coordinated, prompt, reliable and actionable information to the whole community through the use of

clear, consistent and accessible means. Accurate initial information and follow-up on instructions were made with the formulation of news releases being reviewed from the Joint Information System and briefings conducted at the PNPP Joint Public Information Center and at the Lake, Ashtabula, and Geauga County EMAs. Alert and notification of the public and media was completed in a timely manner by simulated means of sounding of sirens, Emergency Alert System messaging, warning in state parks, news releases and media briefings. The simulated release of information via the aforementioned public information modes were consistent with protective action decisions and contained applicable and specific instructions relative to those decisions.

Environmental Response/Health and Safety: Appropriate measures were taken to ensure the protection of the health and safety of the public and workers, as well as the environment in support of responder operations and the affected communities. The availability of guidance and resources to address hazardous radiological materials was integrated in support of responder operations and the affected communities. State Liaisons at the PNPP Emergency Operations Facility communicated well with the State Emergency Operations Center to ensure that state protective action recommendations and county protective action decisions and responses were coordinated properly. Leadership identified, assessed, and mitigated worker health and safety hazards and disseminated health and safety guidance and resources to responders in accordance with the scenario, plans and procedures, and the extent-of-play agreements.

On-Scene Security and Protection: State and local law enforcement agencies demonstrated the capability to ensure a safe and secure environment through law enforcement and related security and protection operations for people and communities located within affected areas and also for response personnel who could have been directed to engage in lifesaving and life-sustaining operations. The implementation of traffic and access control was appropriately assessed and coordinated in a timely manner. On-scene security at EOCs, schools, reception centers and other facilities met protection requirements and eliminated or mitigated the risk of damage to persons, property, and the environment.

Critical Transportation: Officials demonstrated the capability to provide infrastructure access and accessible transportation services for response priority objectives, including the evacuation of people and animals and the delivery of vital response personnel, equipment, and services into the affected areas. School officials effectively demonstrated the ability to implement protective actions for affected local schools.

Mass Care Services: Congregate care center staff demonstrated the ability to provide life-sustaining services to affected populations with a focus on family reunification, feeding and sheltering. The American Red Cross, which manages all shelter operations under the REP Program, demonstrated the ability to provide resources, services and accommodations consistent with planning guidelines. They also demonstrated knowledge of the process, and to determine whether evacuees had been monitored for contamination and determined to be acceptable before entering congregate care facilities.

Operational Communications: Evaluation Criterion 1d1, which is the key criterion for this capability, was evaluated for applicable organizations and functional entities. Each applicable organization and location demonstrated the capacity for timely communications in support of security, situational awareness, and operations by primary and backup means, the ability to communicate with both the emergency response community and the affected populations, and to establish interoperable communications between Federal, state, and local all response groups and locations and between affected communities in the impact area.

Infrastructure Systems: Evaluation Criterion 3d2, which is the key criterion for this capability, was assessed pursuant to the capability of Lake, Ashtabula, and Geauga Counties to address impediments to mass evacuation. Lake, Ashtabula, and Geauga Counties demonstrated the capability to address roadway impediments due to landslides and other events that impair/impede safe evacuation of the public.

3.2 EXERCISE EVALUATION AND RESULTS

This section contains the results and findings of the evaluation of all jurisdictions and functional entities that participated in the September 18, 2018 Full-Participation Plume Exposure Pathway Exercise and out-of-sequence interviews and demonstrations.

Each jurisdiction and functional entity was evaluated based on their demonstration of Core Capabilities and their equivalent Radiological Emergency Preparedness Evaluation Criteria, as delineated in the Federal Emergency Management Agency Radiological Emergency Preparedness Program Manual dated January 2016. Exercise criteria are listed by number, and the demonstration status of those criteria are indicated by the use of the following terms:

- M: Met (no unresolved Level 1 or Level 2 Findings were assessed, and there were no unresolved Findings from prior exercises)
- L1: Level 1 Finding was assessed
- L2: Level 2 Finding was assessed or there was an unresolved Level 2 Finding from a prior exercise
- P: Plan Issue was assessed
- ND: Not Demonstrated (the criterion was not demonstrated)
- NS: Not Selected (the criterion was not selected for demonstration)

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Table 3.2.1 – Summary of Exercise Evaluation – State of Ohio

DATE: September 18, 2018 SITE: Perry Nuclear Power Plant M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue ND: Not Demonstrated NS: Not Selected	CRITERION	State Initial Notification Point	SEOC – Dose Assessment Room	SEOC – ESF #10 Operations Room	SEOC – Watch Office – Situation Unit	SEOC – Operations Room	SEOC – Executive Room	SEOC – JIC Room	PNPP – JIC Public Info/Media	PNPP – JIC – Public Inquiry Hotline	PNPP JIC – State PIO	State LNOs @ PNPP EOF	State LNOs @ Lake County EOC
Emergency Operations Management													
Mobilization	1a1	M	M		M	M	M	M		M		M	M
Facilities	1b1												
Direction and Control	1c1		M		M	M	M		M			M	M
Communications Equipment	1d1	M	M		M	M		M	M			M	M
Equipment and Supplies to Support Operations	1e1	M	M	M	M	M		M	M			M	M
Protective Action Decision-Making													
EW Exposure Control Decisions	2a1		M	M									
PARs	2b1		M				M						
PADs	2b2						M						
PADs for Disabled/Functional Needs	2c1		M				M						
Ingestion PADs	2d1												
RRR Decisions	2e1												
Protective Action Implementation													
EW Exposure Control Implementation	3a1												
KI Public/Institutionalized	3b1												
PAD Implementation Disabled/Functional Needs	3c1												
PAD Implementation Schools	3c2												
TACP Establishment	3d1												
Impediments	3d2												
Implement Ingestion PADs	3e1												
Ingestion Pathway Decisions	3e2												
Implementation of RRR Decisions	3f1												
Field Measurement and Analysis													
RESERVED	4a1												
Field Team Management	4a2												
Field Team Operations	4a3												
Field Team Sampling	4b1												
Laboratory Operations	4c1												
Emergency Notification and Public Info													
Initial Alert & Notification	5a1												
RESERVED	5a2												
Backup Alert & Notification	5a3												
Exception Area Alerting	5a4												
Subsequent Information & Instructions	5b1						M	M	M	M	M		
Support Operations and Facilities													
Reception Center Operations	6a1												
EW Monitoring & Decontamination	6b1												
Congregate Care	6c1												
Contaminated Injured Transport & Care	6d1												

**Table 3.2.2 – Summary of Exercise Evaluation – State of Ohio
Out-of-Sequence Activities**

DATE: September 19, 2018 SITE: Perry Nuclear Power Plant M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue ND: Not Demonstrated NS: Not Selected	CRITERION	Field Monitoring Team Coordinator	Communications Van Communicator	Sample Screening Station	Sample Courier	Field Monitoring Team #14	Field Monitoring Team #15	Primary A&N – Lake Erie – ODNR Briefing	Primary A&N – Lake Erie – ODNR Interview
Emergency Operations Management									
Mobilization	1a1	M	M	M	M	M	M		
Facilities	1b1								
Direction and Control	1c1								
Communications Equipment	1d1	M	M	M	M	M	M		M
Equipment and Supplies to Support Operations	1e1	M	M	M	M	M	M	M	M
Protective Action Decision-Making									
EW Exposure Control Decisions	2a1								
PARs	2b1								
PADs	2b2								
PADs for Disabled/Functional Needs	2c1								
Ingestion PADs	2d1								
RRR Decisions	2e1								
Protective Action Implementation									
EW Exposure Control Implementation	3a1	M	M	M	M	M	M	M	M
KI Public/Institutionalized	3b1								
PAD Implementation Disabled/Functional Needs	3c1								
PAD Implementation Schools	3c2								
TACP Establishment	3d1								
Impediments	3d2								
Implement Ingestion PADs	3e1								
Ingestion Pathway Decisions	3e2								
Implementation of RRR Decisions	3f1								
Field Measurement and Analysis									
RESERVED	4a1								
Field Team Management	4a2	M	M						
Field Team Operations	4a3			M		M	M		
Field Team Sampling	4b1								
Laboratory Operations	4c1								
Emergency Notification and Public Info									
Initial Alert & Notification	5a1								M
RESERVED	5a2								
Backup Alert & Notification	5a3								
Exception Area Alerting	5a4								
Subsequent Information & Instructions	5b1								
Support Operations and Facilities									
Reception Center Operations	6a1								
EW Monitoring & Decontamination	6b1								
Congregate Care	6c1								
Contaminated Injured Transport & Care	6d1								

Table 3.2.3 – Summary of Exercise Evaluation – Lake County

DATE: September 18, 2018 SITE: Perry Nuclear Power Plant M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue ND: Not Demonstrated NS: Not Selected	CRITERION	EOC – MARCS Communications Check	Central Communications Center – INP	EOC	EOC – Executive Group	EOC - PIO	Lake County FTC – DC Brief – D/KI Dist.	Lake County Field Team Coordinator	Lake County Communicator	Lake County – Field Monitoring Team #1	Lake County – Field Monitoring Team #2	PNPP JIC – Lake County PIO	School – DC Brief – D/KI Dist. – Riverside SD	School – Interview – Riverside SD
Emergency Operations Management														
Mobilization	1a1		M	M	M	M	M	M	M	M	M			
Facilities	1b1													
Direction and Control	1c1			M	M									
Communications Equipment	1d1	M	M	M		M	M	M	M	M	M		M	M
Equipment and Supplies to Support Operations	1e1	M	M	M		M	M	M	M	M	M		M	M
Protective Action Decision-Making														
EW Exposure Control Decisions	2a1				M									
PARs	2b1				M									
PADs	2b2				M									
PADs for Disabled/Functional Needs	2c1				M									
Ingestion PADs	2d1													
RRR Decisions	2e1													
Protective Action Implementation														
EW Exposure Control Implementation	3a1				M		M	M		M	M		M	M
KI Public/Institutionalized	3b1				M									M
PAD Implementation Disabled/Functional Needs	3c1													
PAD Implementation Schools	3c2													M
TACP Establishment	3d1			M										
Impediments	3d2			M										
Implement Ingestion PADs	3e1													
Ingestion Pathway Decisions	3e2													
Implementation of RRR Decisions	3f1													
Field Measurement and Analysis														
RESERVED	4a1													
Field Team Management	4a2							M	M					
Field Team Operations	4a3									M	M			
Field Team Sampling	4b1													
Laboratory Operations	4c1													
Emergency Notification and Public Info														
Initial Alert & Notification	5a1					M								
RESERVED	5a2													
Backup Alert & Notification	5a3													
Exception Area Alerting	5a4													
Subsequent Information & Instructions	5b1			M		M		M				M		
Support Operations and Facilities														
Reception Center Operations	6a1													
EW Monitoring & Decontamination	6b1													
Congregate Care	6c1													
Contaminated Injured Transport & Care	6d1													

**Table 3.2.4 - Summary of Exercise Evaluation – Lake County
Out-of-Sequence Activities**

DATE: September 17, 2018 SITE: Perry Nuclear Power Plant M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue ND: Not Demonstrated NS: Not Selected	CRITERION	School – DC Brief – D/KI Dist. – Painesville City SD	School – Interview - Painesville City SD	TACP – DC Brief – D/KI Dist. – Grand River PD	TACP – Interview – Grand River PD	TACP – DC Brief – D/KI Dist. – Fairport Harbor PD	TACP – Interview – Fairport Harbor PD	Mon/Decon – DC Brief – D/KI Dist. – Mentor FD	Mon/Decon – EWs – Mentor FD	Mon/Decon – EW Vehicles – Mentor FD	Backup Route Alerting – DC Brief – D/KI Dist. – LeRoy Twp FD	Backup Route Alerting – LeRoy Twp FD
Emergency Operations Management												
Mobilization	1a1											
Facilities	1b1											
Direction and Control	1c1											
Communications Equipment	1d1	M			M		M	M				M
Equipment and Supplies to Support Operations	1e1	M	M	M	M	M	M	M	M	M	M	M
Protective Action Decision-Making												
EW Exposure Control Decisions	2a1											
PARs	2b1											
PADs	2b2											
PADs for Disabled/Functional Needs	2c1											
Ingestion PADs	2d1											
RRR Decisions	2e1											
Protective Action Implementation												
EW Exposure Control Implementation	3a1	M	M	M	M	M	M	M	M	M	M	M
KI Public/Institutionalized	3b1		M									
PAD Implementation Disabled/Functional Needs	3c1											
PAD Implementation Schools	3c2		M									
TACP Establishment	3d1				M		M					
Impediments	3d2											
Implement Ingestion PADs	3e1											
Ingestion Pathway Decisions	3e2											
Implementation of RRR Decisions	3f1											
Field Measurement and Analysis												
RESERVED	4a1											
Field Team Management	4a2											
Field Team Operations	4a3											
Field Team Sampling	4b1											
Laboratory Operations	4c1											
Emergency Notification and Public Info												
Initial Alert & Notification	5a1											
RESERVED	5a2											
Backup Alert & Notification	5a3											M
Exception Area Alerting	5a4											
Subsequent Information & Instructions	5b1											
Support Operations and Facilities												
Reception Center Operations	6a1											
EW Monitoring & Decontamination	6b1								M	M		
Congregate Care	6c1											
Contaminated Injured – Transport & Care	6d1											

Table 3.2.5 – Summary of Exercise Evaluation – Ashtabula County

DATE: September 18, 2018 SITE: Perry Nuclear Power Plant M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue ND: Not Demonstrated NS: Not Selected	CRITERION	EOC – MARCS Communications Check	Sheriff's 911/Dispatch Center – INP	EOC	EOC – Executive Room	EOC - PIO	PNPP JIC – Ashtabula County PIO
Emergency Operations Management							
Mobilization	1a1		M	M	M	M	
Facilities	1b1						
Direction and Control	1c1			M	M		
Communications Equipment	1d1	M	M	M	M	M	
Equipment and Supplies to Support Operations	1e1	M	M	M	M	M	
Protective Action Decision-Making							
EW Exposure Control Decisions	2a1				M		
PARs	2b1						
PADs	2b2				M		
PADs for Disabled/Functional Needs	2c1				M		
Ingestion PADs	2d1						
RRR Decisions	2e1						
Protective Action Implementation							
EW Exposure Control Implementation	3a1			M			
KI Public/Institutionalized	3b1			M			
PAD Implementation Disabled/Functional Needs	3c1			M			
PAD Implementation Schools	3c2			M			
TACP Establishment	3d1			M			
Impediments	3d2			M			
Implement Ingestion PADs	3e1						
Ingestion Pathway Decisions	3e2						
Implementation of RRR Decisions	3f1						
Field Measurement and Analysis							
RESERVED	4a1						
Field Team Management	4a2						
Field Team Operations	4a3						
Field Team Sampling	4b1						
Laboratory Operations	4c1						
Emergency Notification and Public Info							
Initial Alert & Notification	5a1					M	
RESERVED	5a2						
Backup Alert & Notification	5a3						
Exception Area Alerting	5a4						
Subsequent Information & Instructions	5b1			M		M	M
Support Operations and Facilities							
Reception Center Operations	6a1						
EW Monitoring & Decontamination	6b1						
Congregate Care	6c1						
Contaminated Injured Transport & Care	6d1						

**Table 3.2.6 – Summary of Exercise Evaluation – Ashtabula County –
Out-of-Sequence Activities**

DATE: September 19, 2018 SITE: Perry Nuclear Power Plant M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue ND: Not Demonstrated NS: Not Selected	CRITERION	TACP – DC Brief – D/KI Dist. – Geneva-on-the- Lake PD	TACP – Interview – Geneva-on-the-Lake PD	Congregate Care Center – Edgewood High School	Backup Route Alerting – DC Brief – D/KI Dist. – Geneva-on-the-Lake FD	Backup Route Alerting – Geneva-on-the-Lake FD
Emergency Operations Management						
Mobilization	1a1					
Facilities	1b1			M		
Direction and Control	1c1					
Communications Equipment	1d1		M			M
Equipment and Supplies to Support Operations	1e1	M	M		M	M
Protective Action Decision-Making						
EW Exposure Control Decisions	2a1					
PARs	2b1					
PADs	2b2					
PADs for Disabled/Functional Needs	2c1					
Ingestion PADs	2d1					
RRR Decisions	2e1					
Protective Action Implementation						
EW Exposure Control Implementation	3a1	M	M		M	M
KI Public/Institutionalized	3b1					
PAD Implementation Disabled/Functional Needs	3c1					
PAD Implementation Schools	3c2					
TACP Establishment	3d1		M			
Impediments	3d2					
Implement Ingestion PADs	3e1					
Ingestion Pathway Decisions	3e2					
Implementation of RRR Decisions	3f1					
Field Measurement and Analysis						
RESERVED	4a1					
Field Team Management	4a2					
Field Team Operations	4a3					
Field Team Sampling	4b1					
Laboratory Operations	4c1					
Emergency Notification and Public Info						
Initial Alert & Notification	5a1					
RESERVED	5a2					
Backup Alert & Notification	5a3					M
Exception Area Alerting	5a4					
Subsequent Information & Instructions	5b1					
Support Operations and Facilities						
Reception Center Operations	6a1					
EW Monitoring & Decontamination	6b1					
Congregate Care	6c1			M		
Contaminated Injured	6d1					

Table 3.2.7 – Summary of Exercise Evaluation – Geauga County

DATE: September 18, 2018 SITE: Perry Nuclear Power Plant M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue ND: Not Demonstrated NS: Not Selected	CRITERION	EOC – MARCS Communications Check	Gauga County Sheriff's Office – 911 / Dispatch Center - INP	EOC	EOC – Executive Room	EOC – PIO	TACP – DC Brief – D/KI Dist. – Gauga County Sheriff's Office	TACP – Interview – Gauga County Sheriff's Office	PNPP JIC – Gauga County PIO
Emergency Operations Management									
Mobilization	1a1		M	M	M				
Facilities	1b1								
Direction and Control	1c1			M	M				
Communications Equipment	1d1	M	M	M	M			M	
Equipment and Supplies to Support Operations	1e1	M	M	M	M		M	M	
Protective Action Decision-Making									
EW Exposure Control Decisions	2a1				M				
PARs	2b1								
PADs	2b2				M				
PADs for Disabled/Functional Needs	2c1				M				
Ingestion PADs	2d1								
RRR Decisions	2e1								
Protective Action Implementation									
EW Exposure Control Implementation	3a1			M			M	M	
KI Public/Institutionalized	3b1			M					
PAD Implementation Disabled/Functional Needs	3c1			M					
PAD Implementation Schools	3c2			M					
TACP Establishment	3d1			M				M	
Impediments	3d2			M					
Implement Ingestion PADs	3e1								
Ingestion Pathway Decisions	3e2								
Implementation of RRR Decisions	3f1								
Field Measurement and Analysis									
RESERVED	4a1								
Field Team Management	4a2								
Field Team Operations	4a3								
Field Team Sampling	4b1								
Laboratory Operations	4c1								
Emergency Notification and Public Info									
Initial Alert & Notification	5a1					M			
RESERVED	5a2								
Backup Alert & Notification	5a3								
Exception Area Alerting	5a4								
Subsequent Information & Instructions	5b1			M		M			M
Support Operations and Facilities									
Reception Center Operations	6a1								
EW Monitoring & Decontamination	6b1								
Congregate Care	6c1								
Contaminated Injured Transport & Care	6d1								

**Table 3.2.8 – Summary of Exercise Evaluation – Geauga County
Out-of-Sequence Activities**

DATE: September 17, 2018 SITE: Perry Nuclear Power Plant M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue ND: Not Demonstrated NS: Not Selected	CRITERION	Backup Route Alerting – DC Brief – D/KI Dist. – Thompson FD	Backup Route Alerting – Thompson FD
Emergency Operations Management			
Mobilization	1a1		
Facilities	1b1		
Direction and Control	1c1		
Communications Equipment	1d1		M
Equipment and Supplies to Support Operations	1e1	M	M
Protective Action Decision-Making			
EW Exposure Control Decisions	2a1		
PARs	2b1		
PADs	2b2		
PADs for Disabled/Functional Needs	2c1		
Ingestion PADs	2d1		
RRR Decisions	2e1		
Protective Action Implementation			
EW Exposure Control Implementation	3a1	M	M
KI Public/Institutionalized	3b1		
PAD Implementation Disabled/Functional Needs	3c1		
PAD Implementation Schools	3c2		
TACP Establishment	3d1		
Impediments	3d2		
Implement Ingestion PADs	3e1		
Ingestion Pathway Decisions	3e2		
Implementation of RRR Decisions	3f1		
Field Measurement and Analysis			
RESERVED	4a1		
Field Team Management	4a2		
Field Team Operations	4a3		
Field Team Sampling	4b1		
Laboratory Operations	4c1		
Emergency Notification and Public Info			
Initial Alert & Notification	5a1		
RESERVED	5a2		
Backup Alert & Notification	5a3		M
Exception Area Alerting	5a4		
Subsequent Information & Instructions	5b1		
Support Operations and Facilities			
Reception Center Operations	6a1		
EW Monitoring & Decontamination	6b1		
Congregate Care	6c1		
Contaminated Injured	6d1		

3.3 JURISDICTIONAL SUMMARY OF EXERCISE EVALUATION RESULTS

The following sections present narrative summaries that describe observations made during the exercise pursuant to the Evaluation Criteria and Core Capabilities demonstrated at each jurisdiction's response locations. Narrative summaries are organized by Jurisdiction, Location, Assessed Core Capability, and the Evaluation Criterion discussed in the Appendix E Extent-of-Play Agreements. The results of the assessments are summarized in Tables 3.2.1, 3.2.2, 3.2.3, 3.2.4, 3.2.5, 3.2.6, 3.2.7, and 3.2.8.

3.3.1 State of Ohio

In summary, the status of DHS/FEMA-evaluated core capabilities and criteria for the State of Ohio is as follows:

- a. MET: All Core Capabilities and Evaluation Criteria identified in the DHS/FEMA-approved extent-of-play agreement. One Plan Issue and one Level 1 Finding were identified prior to and during the exercise, respectively, and both were resolved prior to release of the Draft AAR/IP. See Evaluation Criteria 3.a.1 and 4.a.3 in Section 3.3.1.17 of this report.

3.3.1.1 SEOC – Initial Notification Point

Criterion 1.a.1 – Core Capability: Operational Communications

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

3.3.1.2 SEOC – Dose Assessment Room

Criterion 1.a.1 – Core Capability: Operational Communications

Criterion 1.c.1 – Core Capability: Operational Coordination

Core Capability: Operational Communications

Core Capability: Situational Assessment

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

Criterion 2.a.1 – Core Capability: Operational Coordination

Core Capability: Environmental Response/Health and Safety

Core Capability: Situational Assessment

- Criterion 2.b.1 – Core Capability: Operational Coordination
 - Core Capability: Intelligence and Information Sharing
 - Core Capability: Environmental Response/Health and Safety
 - Core Capability: Operational Communications
 - Core Capability: Situational Assessment
- Criterion 2.b.2 – Core Capability: Operational Coordination
 - Core Capability: Environmental Response/Health and Safety
 - Core Capability: Operational Communications
 - Core Capability: Situational Assessment
- Criterion 2.c.1 – Core Capability: Operational Coordination
 - Core Capability: Operational Communications
 - Core Capability: Situational Assessment

3.3.1.3 SEOC – Operations Room – ESF #10

- Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety
 - Core Capability: Mass Care Services
 - Core Capability: Public & Private Services and Resources
 - Core Capability: Public Health and Medical Services
- Criterion 2.a.1 – Core Capability: Operational Coordination
 - Core Capability: Environmental Response/Health and Safety
 - Core Capability: Situational Assessment

3.3.1.4 SEOC – Assessment Room – Watch Office / Situation Unit

- Criterion 1.c.1 – Core Capability: Operational Coordination
 - Core Capability: Operational Communications
 - Core Capability: Situational Assessment
- Criterion 1.d.1 – Core Capability: Operational Communications
- Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety
 - Core Capability: Mass Care Services
 - Core Capability: Public & Private Services and Resources
 - Core Capability: Public Health and Medical Services

3.3.1.5 SEOC – Operations Room

- Criterion 1.a.1 – Core Capability: Operational Communications
- Criterion 1.c.1 – Core Capability: Operational Coordination
 - Core Capability: Operational Communications
 - Core Capability: Situational Assessment
- Criterion 1.d.1 – Core Capability: Operational Communications

- Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety
- Core Capability: Mass Care Services
- Core Capability: Public & Private Services and Resources
- Core Capability: Public Health and Medical Services

3.3.1.6 SEOC – Executive Room

- Criterion 1.a.1 – Core Capability: Operational Communications
- Criterion 1.c.1 – Core Capability: Operational Coordination
- Core Capability: Operational Communications
- Core Capability: Situational Assessment
- Criterion 2.b.1 – Core Capability: Operational Coordination
- Core Capability: Environmental Response/Health and Safety
- Core Capability: Operational Communications
- Core Capability: Situational Assessment
- Criterion 2.b.2 – Core Capability: Operational Coordination
- Core Capability: Intelligence and Information Sharing
- Core Capability: Environmental Response/Health and Safety
- Core Capability: Operational Communications
- Core Capability: Situational Assessment
- Criterion 2.c.1 – Core Capability: Operational Coordination
- Criterion 5.b.1 – Core Capability: Public Information and Warning
- Core Capability: Operational Coordination
- Core Capability: Operational Communications

3.3.1.7 SEOC – JIC Room

- Criterion 1.a.1 – Core Capability: Operational Communications
- Criterion 1.d.1 – Core Capability: Operational Communications
- Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety
- Core Capability: Mass Care Services
- Core Capability: Public & Private Services and Resources
- Core Capability: Public Health and Medical Services
- Criterion 5.b.1 – Core Capability: Public Information and Warning
- Core Capability: Operational Coordination
- Core Capability: Operational Communications

3.3.1.8 PNPP – Public Information/Media Briefings

- Criterion 1.c.1 – Core Capability: Operational Coordination
- Core Capability: Operational Communications
- Core Capability: Situational Assessment

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

Criterion 5.b.1 – Core Capability: Public Information and Warning

Core Capability: Operational Coordination

Core Capability: Operation Communications

3.3.1.9 PNPP – Public Inquiry Hotline

Criterion 1.a.1 – Core Capability: Operational Communications

Criterion 5.b.1 – Core Capability: Public Information and Warning

Core Capability: Operational Coordination

Core Capability: Operation Communications

3.3.1.10 PNPP JIC – State of Ohio PIO

Criterion 5.b.1 – Core Capability: Public Information and Warning

Core Capability: Operational Coordination

Core Capability: Operation Communications

3.3.1.11 State Liaisons – Emergency Operations Facility (EOF)

Criterion 1.a.1 – Core Capability: Operational Communications

Criterion 1.c.1 – Core Capability: Operational Coordination

Core Capability: Operational Communications

Core Capability: Situational Assessment

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

3.3.1.12 State Liaisons – Lake County Emergency Operations Center

Criterion 1.a.1 – Core Capability: Operational Communications

Criterion 1.c.1 – Core Capability: Operational Coordination

Core Capability: Operational Communications

Core Capability: Situational Assessment

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

3.3.1.13 Field Monitoring Operations – Field Monitoring Team Coordinator

Criterion 4.a.2 – Core Capability: Operational Coordination
Core Capability: Situational Assessment

3.3.1.14 Field Monitoring Operations – Field Monitoring Team Coordinator, Communications Van Communicator, Sample Screening Station, Field Monitoring Teams, and Sample Courier

Criterion 1.a.1 – Core Capability: Operational Communications

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety
Core Capability: Mass Care Services
Core Capability: Public & Private Services and Resources
Core Capability: Public Health and Medical Services

Criterion 3.a.1 – DC Radiological Briefing / Dosimetry Distribution and Emergency Worker Exposure Control
Core Capability: Operational Coordination
Core Capability: Environmental Response/Health and Safety

Criterion 4.a.2 – Core Capability: Operational Coordination
Core Capability: Situational Assessment

3.3.1.15 Sample Screening Station

Criterion 4.a.3 – Core Capability: Environmental Response/Health and Safety

3.3.1.16 Field Monitoring Operations – Sample Courier

Criterion 1.a.1 – Core Capability: Operational Communications

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety
Core Capability: Mass Care Services
Core Capability: Public & Private Services and Resources
Core Capability: Public Health and Medical Services

Criterion 3.a.1 – DC Radiological Briefing / Dosimetry Distribution and Emergency Worker Exposure Control
Core Capability: Operational Coordination
Core Capability: Environmental Response/Health and Safety

3.3.1.17 Field Monitoring Team – FMT-14

Criterion 1.a.1 – Core Capability: Operational Communications

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination

Core Capability: Environmental Response/Health and Safety

Level 2 Finding: 47-18-3.a.1-L2-01 ORO: Ohio Emergency Management Agency Criterion: 3.a.1

CONDITION: Field Monitoring Team 14 (FMT-14) members did not utilize Personal Protective Equipment (PPE).

POSSIBLE CAUSE: The FMT-14 members performed field team operations without utilizing the written procedures and missed the steps for PPE.

According to Section 2.1.f of the Ohio EMA FMT Procedure 658, FMT members were to don Personal Protective Equipment (PPE), including shoe covers, gloves, reflective safety vests and personal dosimeters prior to conducting field activities. Although FMT-14 members utilized personal dosimeters, they did not utilize any other PPE during field activities until they reached a low-background area to survey their radiological samples, at which point they utilized gloves. At 1418 Eastern Daylight Time (EDT), the demonstration was stopped by the FMT-14 Controller at the request of the FMT-14 Evaluator.

REFERENCE: Ohio Emergency Management Agency Field Monitoring Team Procedures NUREG-0654/FEMA-REP-1, K Planning Standard.

EFFECT: The failure of FMT-14 members to utilize PPE could result in contamination of team members.

RECOMMENDATION: While FMT personnel were informed of changes to FMT procedures, the FMT written procedures must be updated to reflect the changes, and they must follow them while performing field team operations.

SCHEDULE OF CORRECTIVE ACTIONS: Immediate retraining and redemonstration. At 1420 EDT, FMT-14 members were retrained on procedures for the use of PPE, and at 1425 EDT, FMT-14 members successfully demonstrated the proper donning and doffing of the above listed PPE.

CORRECTIVE ACTION DESCRIPTION: The Finding was corrected through on-the-spot retraining of the FMT-14 team members on the use of PPE and their successful re-demonstration of the criterion prior to conclusion of the activity on September 19, 2018.

Finding 47-18-3.a.1-L-02-01 is closed.

Criterion 4.a.3 – Core Capability: Environmental Response/Health and Safety

Core Capability: Operational Coordination

Core Capability: Situational Assessment

Plan Issue: 47-18-4.a.3-P-01 ORO: Ohio Emergency Management Agency Criterion: 4.a.3

CONDITION: Upon transferring environmental samples to the FMT Sample Courier, Field Monitoring Team 14 (FMT-14) members did not obtain a copy of the Environmental Sample Submission Form from the FMT Courier in accordance with Section 3.11.a.iii of FMT Procedure 658.

At 1451 EDT, the demonstration was stopped by the FMT-14 Controller at the request of the FMT-14 Evaluator. At 1452 EDT, FMT-14 members were retrained on the procedures for the transfer of sample media to the courier, at which point FMT-14 members stated the procedures had been changed and that they were no longer obtaining the pink copy from the courier. At 1454, FMT-14 members contacted the FMT Coordinator by radio to verify the procedure change, and the Coordinator confirmed that the procedure described in Section 3.11.a.iii of the FMT Procedure 658 had been changed.

POSSIBLE CAUSE: While FMT personnel were informed of changes to FMT procedures, the FMT written procedures were not updated to reflect the changes.

REFERENCE: Ohio Emergency Management Agency Field Monitoring Team Procedures NUREG-0654/FEMA-REP-1, H.12.

EFFECT: The failure of FMT members to obtain a copy of the Environmental Sample Submission Form from the FMT Sample Courier upon transfer of environmental samples could result in the inability to provide proof that proper chain-of-custody was maintained throughout FMT operations.

RECOMMENDATION: Have FMT members obtain a copy of the Environmental Sample Submission Form from the FMT Sample Courier upon transfer of environmental samples to provide proof that proper chain-of-custody was maintained throughout FMT operations.

SCHEDULE OF CORRECTIVE ACTIONS: Ohio Emergency Management Agency Field Monitoring Team Procedure 658 will be revised in accordance with the recommendation within 30 days of the PPNP FPX18 exercise.

CORRECTIVE ACTION DESCRIPTION: On October 4, 2018, the Ohio Emergency Management Agency submitted a draft revision of Field Monitoring Team Procedure 658 to FEMA for review and approval. Pursuant to the Draft Revised procedure issued on September 28, 2018, and proposed change on Page 10, Section 3.11.a.iii, FEMA approved the revision on October 5, 2018. The Ohio EMA issued the revised procedure effective October 5, 2018.

Plan Issue: 47-18-4.a.3-P-01 is closed.

3.3.1.18 Field Monitoring Team – FMT-15

Criterion 1.a.1 – Core Capability: Operational Communications

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination

Core Capability: Environmental Response/Health and Safety

Criterion 4.a.3 – Core Capability: Environmental Response/Health and Safety

3.3.1.19 Primary A&N – Lake Erie – DC Briefing – Dosimetry / KI Distribution – ODNR

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination

Core Capability: Environmental Response/Health and Safety

3.3.1.20 Primary A&N – Lake Erie – Interview – ODNR

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination

Core Capability: Environmental Response/Health and Safety

Criterion 5.a.1 – Core Capability: Operational Communications

b. LEVEL 1 FINDINGS: NONE

c. LEVEL 2 FINDINGS: 3.a.1 – Successfully redemonstrated during the exercise. See Section 3.3.1.17 and Appendix A.

d. PLAN ISSUES: 4.a.3 – Corrected prior to the Draft AAR/IP. See Section 3.3.1.17 and Appendix A.

e. PRIOR ISSUES – RESOLVED: NONE

f. PRIOR ISSUES – UNRESOLVED: NONE

3.3.2 Lake County

In summary, the status of DHS/FEMA-evaluated core capabilities and criteria for the Lake County is as follows:

- a. MET: All Core Capabilities and Evaluation Criteria identified in the DHS/FEMA-approved extent-of-play agreement.

3.3.2.1 MARCS Communications Check

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

3.3.2.2 Initial Notification Point – Lake County Sheriff's Office

Criterion 1.a.1 – Core Capability: Operational Communications

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

3.3.2.3 EOC

Criterion 1.a.1 – Core Capability: Operational Communications

Criterion 1.c.1 – Core Capability: Operational Coordination

Core Capability: Operational Communications

Core Capability: Situational Assessment

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination

Core Capability: Environmental Response/Health and Safety

Criterion 3.b.1 – Core Capability: Operational Coordination

Core Capability: Public Information and Warning

Core Capability: Environmental Response/Health and Safety

Core Capability: Public and Private Services and Resources

Criterion 3.c.1 – Core Capability: Public Information and Warning
Core Capability: Operational Coordination
Core Capability: Critical Transportation
Core Capability: Environmental Response/Health and Safety

Criterion 3.c.2 – Core Capability: Operational Coordination
Core Capability: Critical Transportation
Core Capability: Environmental Response/Health and Safety

Criterion 3.d.1 – Core Capability: Operational Coordination
Core Capability: Critical Transportation
Core Capability: On-Scene Security and Protection

Criterion 3.d.2 – Core Capability: Operational Coordination
Core Capability: Critical Transportation
Core Capability: Critical Infrastructure Systems

Criterion 5.b.1 – Core Capability: Public Information and Warning
Core Capability: Operational Coordination
Core Capability: Operation Communications

3.3.2.4 EOC Executive Group

Criterion 1.c.1 – Core Capability: Operational Coordination
Core Capability: Operational Communications
Core Capability: Situational Assessment

Criterion 2.a.1 – Core Capability: Operational Coordination
Core Capability: Environmental Response/Health and Safety
Core Capability: Situational Assessment

Criterion 2.b.2 – Core Capability: Operational Coordination
Core Capability: Environmental Response/Health and Safety
Core Capability: Operational Communications
Core Capability: Situational Assessment

Criterion 2.c.1 – Core Capability: Operational Coordination

3.3.2.5 EOC – Lake County PIO

Criterion 5.a.1 – Core Capability: Core Capability: Public Information and Warning
Core Capability: Operational Coordination
Core Capability: Operation Communications

Criterion 5.b.1 – Core Capability: Public Information and Warning
Core Capability: Operational Coordination
Core Capability: Operation Communications

3.3.2.6 PNPP JIC – Lake County PIO

Criterion 5.b.1 – Core Capability: Public Information and Warning
Core Capability: Operational Coordination
Core Capability: Operation Communications

3.3.2.7 Lake County Field Team Center – Field Team Coordinator – DC Briefing / Dosimetry Distribution

Criterion 3.a.1 – Core Capability: Operational Coordination
Core Capability: Environmental Response/Health and Safety

3.3.2.8 Lake County Field Team Center – Field Team Coordinator

Criterion 1.a.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety
Core Capability: Mass Care Services
Core Capability: Public & Private Services and Resources
Core Capability: Public Health and Medical Services

Criterion 4.a.2 – Core Capability: Operational Coordination
Core Capability: Situational Assessment

3.3.2.9 Lake County Communicator

Criterion 1.d.1 – Core Capability: Operational Communications

3.3.2.10 Lake County – Field Monitoring Team #1

Criterion 1.a.1 – Core Capability: Operational Communications

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety
Core Capability: Mass Care Services
Core Capability: Public & Private Services and Resources
Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination
Core Capability: Environmental Response/Health and Safety

Criterion 4.a.3 – Core Capability: Environmental Response/Health and Safety
Core Capability: Operational Coordination
Core Capability: Situational Assessment

3.3.2.11 Lake County – Field Monitoring Team #2

Criterion 1.a.1 – Core Capability: Operational Communications

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination

Core Capability: Environmental Response/Health and Safety

Criterion 4.a.3 – Core Capability: Environmental Response/Health and Safety

Core Capability: Operational Coordination

Core Capability: Situational Assessment

3.3.2.12 School – DC Briefing – Dosimetry / KI Distribution – Painesville City School District

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination

Core Capability: Environmental Response/Health and Safety

3.3.2.13 School – Interview – Painesville City School District

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination

Core Capability: Environmental Response/Health and Safety

Criterion 3.b.1 – Core Capability: Operational Coordination

Core Capability: Public Information and Warning

Core Capability: Environmental Response/Health and Safety

Core Capability: Public and Private Services and Resources

Criterion 3.c.2 – Core Capability: Operational Coordination

Core Capability: Critical Transportation

Core Capability: Environmental Response/Health and Safety

3.3.2.14 Traffic and Access Control – DC Briefing – Dosimetry / KI Distribution – Grand River Police Department

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination
Core Capability: Environmental Response/Health and Safety

3.3.2.15 Traffic and Access Control – Interview – Grand River Police Department

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety
Core Capability: Mass Care Services
Core Capability: Public & Private Services and Resources
Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination
Core Capability: Environmental Response/Health and Safety

Criterion 3.d.1 – Core Capability: Operational Coordination
Core Capability: Critical Transportation
Core Capability: On-Scene Security and Protection

3.3.2.16 Traffic and Access Control – DC Briefing – Dosimetry / KI Distribution – Fairport Harbor Police Department

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety
Core Capability: Mass Care Services
Core Capability: Public & Private Services and Resources
Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination
Core Capability: Environmental Response/Health and Safety

3.3.2.17 Traffic and Access Control – Interview – Fairport Harbor Police Department

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety
Core Capability: Mass Care Services
Core Capability: Public & Private Services and Resources
Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination
Core Capability: Environmental Response/Health and Safety

Criterion 3.d.1 – Core Capability: Operational Coordination
Core Capability: Critical Transportation
Core Capability: On-Scene Security and Protection

**3.3.2.18 Backup Route Alerting – DC Briefing / Dosimetry Distribution –
LeRoy Township Fire Department**

- Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety
 - Core Capability: Mass Care Services
 - Core Capability: Public & Private Services and Resources
 - Core Capability: Public Health and Medical Services
- Criterion 3.a.1 – Core Capability: Operational Coordination
 - Core Capability: Environmental Response/Health and Safety

3.3.2.19 Backup Route Alerting – Interview – LeRoy Township Fire Department

- Criterion 1.d.1 – Core Capability: Operational Communications
- Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety
 - Core Capability: Mass Care Services
 - Core Capability: Public & Private Services and Resources
 - Core Capability: Public Health and Medical Services
- Criterion 3.a.1 – Core Capability: Operational Coordination
 - Core Capability: Environmental Response/Health and Safety
- Criterion 5.a.3 – Core Capability: Public Information and Warning
 - Core Capability: Operational Communications

**3.3.2.20 Monitoring / Decontamination – Emergency Workers – DC Briefing – Dosimetry /
KI Distribution – Mentor Fire Department**

- Criterion 1.d.1 – Core Capability: Operational Communications
- Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety
 - Core Capability: Mass Care Services
 - Core Capability: Public & Private Services and Resources
 - Core Capability: Public Health and Medical Services
- Criterion 3.a.1 – Core Capability: Operational Coordination
 - Core Capability: Environmental Response/Health and Safety

3.3.2.21 Monitoring / Decontamination – Emergency Workers – Mentor Fire Department

- Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety
 - Core Capability: Mass Care Services
 - Core Capability: Public & Private Services and Resources
 - Core Capability: Public Health and Medical Services
- Criterion 3.a.1 – Core Capability: Operational Coordination
 - Core Capability: Environmental Response/Health and Safety
- Criterion 6.b.1 – Core Capability: Environmental Response/Health and Safety

3.3.2.22 Monitoring / Decontamination – Emergency Worker Vehicles – Mentor Fire Department

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety
Core Capability: Mass Care Services
Core Capability: Public & Private Services and Resources
Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination
Core Capability: Environmental Response/Health and Safety

Criterion 6.b.1 – Core Capability: Environmental Response/Health and Safety

3.3.2.23 School – DC Briefing – Dosimetry / KI Distribution – Riverside School District

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety
Core Capability: Mass Care Services
Core Capability: Public & Private Services and Resources
Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination
Core Capability: Environmental Response/Health and Safety

3.3.2.24 School – Interview – Riverside School District

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety
Core Capability: Mass Care Services
Core Capability: Public & Private Services and Resources
Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination
Core Capability: Environmental Response/Health and Safety

Criterion 3.b.1 – Core Capability: Operational Coordination
Core Capability: Public Information and Warning
Core Capability: Environmental Response/Health and Safety
Core Capability: Public and Private Services and Resources

Criterion 3.c.2 – Core Capability: Operational Coordination
Core Capability: Critical Transportation
Core Capability: Environmental Response/Health and Safety

- b. LEVEL 1 FINDINGS: NONE
- c. LEVEL 2 FINDINGS: NONE
- d. PLAN ISSUES: NONE
- e. PRIOR ISSUES – RESOLVED: NONE
- f. PRIOR ISSUES – UNRESOLVED: NONE

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3.3.3 Ashtabula County

In summary, the status of DHS/FEMA-evaluated core capabilities and criteria for the Ashtabula County is as follows:

- a. MET: All Core Capabilities and Evaluation Criteria identified in the DHS/FEMA-approved extent-of-play agreement.

3.3.3.1 EOC –MARCS Communications Check

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety
Core Capability: Mass Care Services
Core Capability: Public & Private Services and Resources
Core Capability: Public Health and Medical Services

3.3.3.2 Initial Notification Point

Criterion 1.a.1 – Core Capability: Operational Communications

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety
Core Capability: Mass Care Services
Core Capability: Public & Private Services and Resources
Core Capability: Public Health and Medical Services

3.3.2.3 EOC

Criterion 1.a.1 – Core Capability: Operational Communications

Criterion 1.c.1 – Core Capability: Operational Coordination
Core Capability: Operational Communications
Core Capability: Situational Assessment

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety
Core Capability: Mass Care Services
Core Capability: Public & Private Services and Resources
Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination
Core Capability: Environmental Response/Health and Safety
Criterion 3.b.1 – Core Capability: Operational Coordination
Criterion 3.c.1 – Core Capability: Public Information and Warning
Core Capability: Operational Coordination
Core Capability: Critical Transportation
Core Capability: Environmental Response/Health and Safety

Criterion 3.c.2 – Core Capability: Operational Coordination
Core Capability: Critical Transportation
Core Capability: Environmental Response/Health and Safety

Criterion 3.d.1 – Core Capability: Operational Coordination
Core Capability: Critical Transportation
Core Capability: On-Scene Security and Protection

Criterion 3.d.2 – Core Capability: Operational Coordination
Core Capability: Critical Transportation
Core Capability: Critical Infrastructure Systems

Criterion 5.b.1 – Core Capability: Public Information and Warning
Core Capability: Operational Coordination
Core Capability: Operation Communications

3.3.2.4 EOC – Executive Room

Criterion 1.c.1 – Core Capability: Operational Coordination
Core Capability: Operational Communications
Core Capability: Situational Assessment

Criterion 2.a.1 – Core Capability: Operational Coordination
Core Capability: Environmental Response/Health and Safety
Core Capability: Situational Assessment

Criterion 2.b.2 – Core Capability: Operational Coordination
Core Capability: Environmental Response/Health and Safety
Core Capability: Operational Communications
Core Capability: Situational Assessment

Criterion 2.c.1 – Core Capability: Operational Coordination

3.3.2.5 EOC – Ashtabula County – PIO

Criterion 5.a.1 – Core Capability: Core Capability: Public Information and Warning
Core Capability: Operational Coordination
Core Capability: Operation Communications

Criterion 5.b.1 – Core Capability: Public Information and Warning
Core Capability: Operational Coordination
Core Capability: Operation Communications

3.3.2.6 PNPP JIC – Ashtabula County PIO

Criterion 5.b.1 – Core Capability: Public Information and Warning
Core Capability: Operational Coordination
Core Capability: Operation Communications

3.3.2.7 Traffic and Access Control – DC Briefing – Dosimetry / KI Distribution – Lake Police Department

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination

Core Capability: Environmental Response/Health and Safety

3.3.2.8 Traffic and Access Control – Interview – Lake Police Department

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination

Core Capability: Environmental Response/Health and Safety

Criterion 3.d.1 – Core Capability: Operational Coordination

Core Capability: Critical Transportation

Core Capability: On-Scene Security and Protection

3.3.2.9 Congregate Care Center – Edgewood High School

Criterion 1.b.1 – Core Capability: Operational Coordination

Criterion 6.c.1 – Core Capability: Operational Coordination

Core Capability: Mass Care Services

3.3.2.10 Backup Route Alerting – DC Briefing – Dosimetry / KI Distribution – Geneva-on-the-Lake Fire Department

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination

Core Capability: Environmental Response/Health and Safety

3.3.2.11 Backup Route Alerting – Geneva-on-the-Lake Fire Department

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services
Core Capability: Public & Private Services and Resources
Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination
Core Capability: Environmental Response/Health and Safety

Criterion 5.a.3 – Core Capability: Public Information and Warning
Core Capability: Operational Communications

- b. LEVEL 1 FINDINGS: NONE
- c. LEVEL 2 FINDINGS: NONE
- d. PLAN ISSUES: NONE
- e. PRIOR ISSUES – RESOLVED: NONE
- f. PRIOR ISSUES – UNRESOLVED: NONE

3.3.4 Geauga County

In summary, the status of DHS/FEMA-evaluated core capabilities and criteria for the Geauga County is as follows:

- a. MET: All Core Capabilities and Evaluation Criteria identified in the DHS/FEMA-approved extent-of-play agreement.

3.3.4.1 MARCS Communications Check

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

3.3.4.2 Initial Notification Point – Geauga County Sheriff's Office

Criterion 1.a.1 – Core Capability: Operational Communications

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

3.3.3.4 EOC Executive Room

Criterion 1.c.1 – Core Capability: Operational Coordination

Core Capability: Operational Communications

Core Capability: Situational Assessment

Criterion 2.a.1 – Core Capability: Operational Coordination

Core Capability: Environmental Response/Health and Safety

Core Capability: Situational Assessment

Criterion 2.b.2 – Core Capability: Operational Coordination

Core Capability: Environmental Response/Health and Safety

Core Capability: Operational Communications

Core Capability: Situational Assessment

Criterion 2.c.1 – Core Capability: Operational Coordination

3.3.3.5 EOC – Geauga County PIO

Criterion 5.a.1 – Core Capability: Public Information and Warning

Core Capability: Operational Coordination

Core Capability: Operational Communications

Criterion 5.b.1 – Core Capability: Public Information and Warning
Core Capability: Operation Communications

3.3.4.3 EOC

Criterion 1.a.1 – Core Capability: Operational Communications

Criterion 1.c.1 – Core Capability: Operational Coordination
Core Capability: Operational Communications
Core Capability: Situational Assessment

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety
Core Capability: Mass Care Services
Core Capability: Public & Private Services and Resources
Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination
Core Capability: Environmental Response/Health and Safety

Criterion 3.b.1 – Core Capability: Operational Coordination
Core Capability: Public Information and Warning
Core Capability: Environmental Response/Health and Safety
Core Capability: Public and Private Services and Resources

Criterion 3.c.1 – Core Capability: Public Information and Warning
Core Capability: Operational Coordination
Core Capability: Critical Transportation

Criterion 3.c.2 – Core Capability: Operational Coordination
Core Capability: Critical Transportation
Core Capability: Environmental Response/Health and Safety

Criterion 3.d.1 – Core Capability: Operational Coordination
Core Capability: Critical Transportation
Core Capability: On-Scene Security and Protection

Criterion 3.d.2 – Core Capability: Operational Coordination
Core Capability: Critical Transportation
Core Capability: Critical Infrastructure Systems

Criterion 5.b.1 – Core Capability: Public Information and Warning
Core Capability: Operational Coordination
Core Capability: Operation Communications

3.3.3.6 Traffic and Access Control – DC Briefing – Geauga County Sheriff's Department

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety
Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination

Core Capability: Environmental Response/Health and Safety

3.3.4.7 Traffic and Access Control – Interview – Geauga County Sheriff's Department

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination

Core Capability: Environmental Response/Health and Safety

Criterion 3.d.1 – Core Capability: Operational Coordination

Core Capability: Critical Transportation

Core Capability: On-Scene Security and Protection

3.3.4.8 PNPP JIC – Geauga County PIO

Criterion 5.b.1 – Core Capability: Public Information and Warning

Core Capability: Operational Coordination

Core Capability: Operation Communications

3.3.4.9 Backup Route Alerting – DC Briefing – Dosimetry / KI Distribution – Thompson Fire Department

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination

Core Capability: Environmental Response/Health and Safety

3.3.3.10 Backup Route Alerting – Thompson Fire Department

Criterion 1.d.1 – Core Capability: Operational Communications

Criterion 1.e.1 – Core Capability: Environmental Response/Health and Safety

Core Capability: Mass Care Services

Core Capability: Public & Private Services and Resources

Core Capability: Public Health and Medical Services

Criterion 3.a.1 – Core Capability: Operational Coordination

Core Capability: Environmental Response/Health and Safety

Criterion 5.a.3 – Core Capability: Public Information and Warning
Core Capability: Operational Communications

- b. LEVEL 1 FINDINGS: NONE
- c. LEVEL 2 FINDINGS: NONE
- d. PLAN ISSUES: NONE
- e. PRIOR ISSUES – RESOLVED: NONE
- f. PRIOR ISSUES – UNRESOLVED: NONE

SECTION 4: Conclusion

The DHS/FEMA evaluation team identified one Level 2 Finding and one Plan Issue for the State of Ohio during the exercise. The Level 2 Finding was successfully redemonstrated during the exercise. The Plan Issue was corrected prior to the issuing of this report. Both issues are closed as a result of the timely corrective actions taken. No Findings or Plan Issues were identified for Lake, Ashtabula, and Geauga Counties as a result of the 2018 PNPP Exercise. These results are discussed in Appendix A of this After Action Report/Improvement Plan.

Based on the results of this exercise, the planning and preparedness for the State of Ohio and affected local jurisdictions provide reasonable assurance that appropriate measures can be taken to protect public health and safety. Therefore, Title 44 CFR Part 350, approval of the offsite radiological emergency response plans and preparedness for the state of Ohio, remains in effect.

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APPENDIX A: Improvement Plan

This appendix summarizes the results from the of the evaluation of all jurisdictions and functional entities that participated in September 18, 2018, Perry Nuclear Power Plant, Full Participation, Plume Exposure Pathway REP Exercise to test the offsite emergency response capabilities of State and local governments in the 10-mile EPZ surrounding the PNPP, recommended corrective actions, and a schedule of corrective actions for the identified primary responsible agency.

Level 2 Finding: 47-18-3.a.1-L2-01 ORO: Ohio Emergency Management Agency Criterion: 3.a.1

CONDITION: Field Monitoring Team 14 (FMT-14) members did not utilize Personal Protective Equipment (PPE).	
POSSIBLE CAUSE: The FMT-14 members performed field team operations without utilizing the written procedures and missed the steps for PPE. According to Section 2.1.f of the Ohio EMA FMT Procedure 658, FMT members were to don Personal Protective Equipment (PPE), including shoe covers, gloves, reflective safety vests and personal dosimeters prior to conducting field activities. Although FMT-14 members utilized personal dosimeters, they did not utilize any other PPE during field activities until they reached a low-background area to survey their radiological samples, at which point they utilized gloves. At 1418 Eastern Daylight Time (EDT), the demonstration was stopped by the FMT-14 Controller at the request of the FMT-14 Evaluator.	
REFERENCE: Ohio Emergency Management Agency Field Monitoring Team Procedures NUREG-0654/FEMA-REP-1, K Planning Standard.	
EFFECT: The failure of FMT-14 members to utilize PPE could result in contamination of team members.	
RECOMMENDATION: While FMT personnel were informed of changes to FMT procedures, the FMT written procedures must be updated to reflect the changes, and they must follow them while performing field team operations.	
SCHEDULE OF CORRECTIVE ACTIONS: Immediate retraining and redemonstration. At 1420 EDT, FMT-14 members were retrained on procedures for the use of PPE, and at 1425 EDT, FMT-14 members successfully demonstrated the proper donning and doffing of the above listed PPE.	
CORRECTIVE ACTION DESCRIPTION: The Finding was corrected through on-the-spot retraining of the FMT-14 team members on the use of PPE and their successful re-demonstration of the criterion prior to conclusion of the activity on September 19, 2018.	
CAPABILITY: Operational Coordination	PRIMARY RESPONSIBLE AGENCY: Ohio Emergency Management Agency

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Radiological Emergency Preparedness (REP) Program

Final After Action Report/Improvement Plan

Perry Nuclear Power Plant

CORE CAPABILITY ELEMENT: Environmental Response/Health and Safety	DATE COMPLETED: September 19, 2018. Finding 47-18-3.a.1-L-02-01 is closed.
REP ASSESSMENT AREA: Protective Action Implementation	
AGENCY POC: Chris Salz	

Plan Issue: 47-18-4.a.3-P-01

ORO: Ohio Emergency Management Agency

Criterion: 4.a.3

CONDITION: Upon transferring environmental samples to the FMT Sample Courier, Field Monitoring Team 14 (FMT-14) members did not obtain a copy of the Environmental Sample Submission Form from the Sample Courier.	
POSSIBLE CAUSE: While FMT personnel were informed of changes to FMT procedures, the FMT written procedures were not updated to reflect the changes.	
REFERENCE: Ohio Emergency Management Agency Field Monitoring Team Procedures NUREG-0654/FEMA-REP-1, H.12.	
EFFECT: The failure of FMT members to obtain a copy of the Environmental Sample Submission Form from the FMT Sample Courier upon transfer of environmental samples could result in the inability to provide proof that proper chain-of-custody was maintained throughout FMT operations.	
RECOMMENDATION: Have FMT members obtain a copy of the Environmental Sample Submission Form from the FMT Sample Courier upon transfer of environmental samples to provide proof that proper chain-of-custody was maintained throughout FMT operations.	
SCHEDULE OF CORRECTIVE ACTIONS: Ohio Emergency Management Agency Field Monitoring Team Procedure 658 will be revised in accordance with the recommendation within 30 days of the PPNP FPX18 exercise.	
CORRECTIVE ACTION DESCRIPTION: On October 4, 2018, the Ohio Emergency Management Agency submitted a draft revision of Field Monitoring Team Procedure 658 to FEMA for review and approval. Pursuant to the Draft Revised procedure issued on September 28, 2018, and proposed change on Page 10, Section 3.11.a.iii, FEMA approved the revision on October 5, 2018. The Ohio EMA issued the revised procedure effective October 5, 2018.	
CAPABILITY: Operational Coordination	PRIMARY RESPONSIBLE AGENCY: Ohio Emergency Management Agency
CORE CAPABILITY ELEMENT: None specified in 2016 RPM. “Best Fit” is “Environmental Response/Health and Safety” REP ASSESSMENT AREA: Field Measurements and Analyses	DATE COMPLETED: The Ohio EMA issued revised FMT Procedure 658 effective October 5, 2018. Plan Issue: 47-18-4.a.3-P-01 is closed.
AGENCY POC: Chris Salz	

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APPENDIX B: Exercise Timeline

Emergency Classification Level, Event or Action	Time Utility Declared EDT	Time that Notification Was Received or Action Was Taken All Times are EDT										
		EOF	SEOC INP	SEOC DOSE ASSESS Group	SEOC EXEC Group	SEOC OPs Group	SEOC SIT UNIT	SEOC JIC	Lake County	Geauga County	Ashtabula County	PNPP JIC
Unusual Event:	NA	NA	0804	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alert:	0915	0918	NA	NA	NA	NA	0922	NA	0922	0923	0930	1030
Site Area Emergency:	1032	1043	NA	1046	1046	NA	NA	NA	1041	1042	1046	1103
General Emergency:	1157	1203	NA	1210	1212	NA	NA	NA	1209	1210	1210	1210
Release of Rad Material Started:	1025	1043	NA	1053	1053	NA	NA	NA	1041	1042	1046	1103
Release of Rad Material Terminated:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Facility Declared Operational:		1118	NA	0943	0955	0955	0955	0950	1004	0907	0954	1145
Declaration of State/Local Emergency:		-----	NA	NA	1054	1055	1054	1054	1050	1048	1010	1105
Exercise Terminated		1340	NA	1353	1340	1340	1340	1340	1340	1340	1340	1343
Early Precautionary Action Recommendations:		NA	NA	NA	1121	NA	NA	1120	1100	1054	1048	1130
1. Relocate School Children:												
2. Restrict Boating Traffic:		1105	NA	NA	1054	NA	1054	1116	1054	1054	1054	1130
3. Restrict Air and Rail Traffic:		NA	NA	NA	1054	NA	1054	1115	NA	1054	1054	1130
4. Close Parks:		1105	NA	NA	1054	NA	1054	1116	1054	1054	1054	1130
5. Livestock Advisory:		1105	NA	NA	1053	NA	1053	1114	1053	1054	1054	1130
General Information Message Only: "JIC Activation / Precautionary Actions "		NA	1029	1029	1029	1029	1029	1025	NA	NA	NA	NA
1st Siren Activation:		1240	NA	NA	NA	NA	NA	NA	1240	1240	1240	1240
1st EAS/EBS Message: D		1243	NA	NA	NA	NA	NA	NA	1248	1243	1243	1243
1st Protective Action Recommendation: State PAR[s] to County: Excuete Sub-Areas: 1, 2, 3, Lake Erie		NA	NA	1226	1227	1228	1227	1227	1228	1228	1228	NA
1st Protective Action Decision[s] – County PAD[s]: Evacuate Sub-Areas: 1, 2, 3, Lake DRD Correction Values: NONE		1246	NA	1229	1231	1231	1231	1231	1229	1229	1229	1236
2nd Siren Activation:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2nd EAS/EBS Message:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
KI Administration Recommendation:		1246	NA	1226	1226	1228	1227	1231	1228	1229	1229	1236
Emergency Workers:		1246	NA	1226	1226	1228	1227	1231	1229	1229	1229	NA
Institutionalized Persons:		NA	NA	1226	1226	1228	1227	1231	1229	1229	1229	NA
General Public:		1246	NA	1226	1226	1228	1227	1231	1229	1229	1229	NA

LEGEND: N/A – ECL/Event/Action Not Applicable at Location ----- = Time Not Reported

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APPENDIX C: Exercise Evaluation Team

SITE: Perry Nuclear Power Plant

EXERCISE DATE: September 18, 2018

Exercise Management	Name	Agency/ Organization
Chair, Regional Assistance Committee	Sean O’Leary	DHS/FEMA
Exercise Director	Edward Golinski	DHS/FEMA
Assistant Exercise Director	Stephen Tulley	DHS/FEMA
Assistant Exercise Director	Dwaine Warren	DHS/FEMA
Ohio Site Specialist	Brian Reinhart	DHS/FEMA
Assistant Ohio Site Specialist	Carl Bebrich	DHS/FEMA
Team Leader – State of Ohio	Carl Bebrich	DHS/FEMA
Team Leader – Lake County	David Ortman	DHS/FEMA
Team Leader – Ashtabula County	James King	DHS/FEMA
Team Leader – Geauga County	Al Blake	DHS/FEMA
Contractor Evaluator Support – Regional Coordinator	Marcy Campbell	ICFI
Contractor Scenario Technical Reviewer	Jill Leatherman	ICFI
Contractor Administrative Support	Christy Bennett	ICFI

Evaluated Offsite Response Organizations/Locations	Evaluator	Agency/ Organization
State of Ohio		
Ohio – SEOC – Initial Notification Point	P. J. Nied	ICFI
Ohio – SEOC – MARCS Communications Check	Carl Bebrich	DHS/FEMA
Ohio – SEOC – Executive Room	Todd Gemskie	DHS/FEMA
Ohio – SEOC – Dose Assessment Room	Kent Tosch	ICFI
Ohio – SEOC – Dose Assessment Room	Jill Leatherman	ICFI
Ohio – SEOC – Assessment Room/Situation Unit	Carl Bebrich	DHS/FEMA
Ohio – SEOC – JIC Room – Public Information	P. J. Nied	ICFI
Ohio – SEOC – JIC Room – Public Inquiry/Rumor Control	P. J. Nied	ICFI
Ohio – SEOC – Watch Office / Situation Unit	Carl Bebrich	DHS/FEMA
Ohio – SEOC – Operations Room	Carl Bebrich	DHS/FEMA
Ohio – State Liaisons – PNPP Emergency Operations Facility	Marcy Campbell	ICFI
Ohio – State Liaisons – Lake County EOC (RAA & ODH)	David Stuenkel	ICFI
Ohio – PNPP JIC – Public Information/Media Briefings	Meg Swearingen	ICFI
Ohio – PNPP JIC – Public Inquiry Hotline	Frank Cordaro	ICFI

Evaluated Offsite Response Organizations/Locations	Evaluator	Agency/ Organization
State of Ohio – Out-of-Sequence		
Ohio – Field Team Operations – Field Team Center – Rad Briefing / Dosimetry Distribution	Reggie Rodgers	ICFI
Ohio – Field Team Operations – Field Team Center – Coordinator	Reggie Rodgers	ICFI
Ohio – Field Team Operations – Field Team Center – Communicator	Reggie Rodgers	ICFI
Ohio – Field Team Operations – Sample Courier	Reggie Rodgers	ICFI
Ohio – Field Team Operations – Sample Screening Point	Reggie Rodgers	ICFI
Ohio – Field Team Operations – Field Monitoring Team #14	Cheryl Weaver	ICFI
Ohio – Field Team Operations – Field Monitoring Team #15	Carol Shepard	ICFI
Ohio – Primary A&N Lake Erie – DC Briefing / Dosimetry Distribution – ODNR	Kevin Reed	ICFI
Ohio – Primary A&N Lake Erie – Interview – ODNR	Kevin Reed	ICFI

Lake County		
Lake County – MARCS Communications Test	Lynn Steffensen	ICFI
Lake County – Central Communications Center – INP	David Kayen	ICFI
Lake County – EOC	Robert Walker	ICFI
Lake County – EOC	Don Carolton	ICFI
Lake County – EOC – Executive Group	Lynn Steffensen	ICFI
Lake County – EOC – PIO	David Kayen	ICFI
Lake County – PNPP – PIO	Frank Cordaro	ICFI
Lake County – Communicator	David Stuenkel	ICFI
Lake County – Field Team Operations – Field Team Center – DC Briefing / Dosimetry Distribution	David Stuenkel	ICFI
Lake County – Field Team Operations – Field Team Coordinator	David Stuenkel	ICFI
Lake County – Lake County – Field Monitoring Team #1	Cheryl Weaver	ICFI
Lake County – Lake County – Field Monitoring Team #2	Carol Shepard	ICFI

Lake County – Out-of-Sequence		
Lake County – School – DC Briefing / Dosimetry Distribution – Painesville City School District	Tom Reynolds	ICFI
Lake County – School – Interview – Painesville City School District	Meg Swearingen	ICFI
Lake County – TCP/ACP – DC Briefing / Dosimetry Distribution – Grand River Police Department	Doc Burriss	ICFI
Lake County – TCP/ACP – Interview – Grand River Police Department	Doc Burriss	ICFI
Lake County – TCP/ACP – DC Briefing / Dosimetry Distribution – Fairport Harbor Police Department	Danny Loomis	ICFI
Lake County – TCP/ACP – Interview – Fairport Harbor Police Department	Danny Loomis	ICFI

Evaluated Offsite Response Organizations/Locations	Evaluator	Agency/ Organization
Lake County – Out-of-Sequence (Cont'd)		
Lake County – Backup Route Alerting– DC Briefing / Dosimetry Distribution – LeRoy Township Fire Department	Steve Watts	ICFI
Lake County – Backup Route Alerting – LeRoy Township Fire Department	Steve Watts	ICFI
Lake County – EW M/D – DC Briefing / Dosimetry Distribution – Mentor Fire Department	Debora Blunt	ICFI
Lake County – EW M/D – EWs – Mentor Fire Department	Debora Blunt	ICFI
Lake County – EW M/D – EW Vehicles – Mentor Fire Department	Michael Henry	ICFI
Lake County – School – DC Briefing / Dosimetry Distribution – Riverside School District	Roger Winkelmann	ICFI
Lake County – School – Interview – Riverside School District	Roger Winkelmann	ICFI
Lake County – Reception Center – Registration of Evacuees – Beaver Local School Complex – American Red Cross	John Wiecejorek	ICFI
Lake County – Congregate Care Center – United Local School Complex – American Red Cross	Paul Ringheiser	ICFI
Lake County – EW M/D – DC Briefing – Negley Fire Department/EMS	Curtis Williams	DHS/FEMA
Lake County – EW M/D – EWs – Negley Fire Department/EMS	Cheryl Weaver	ICFI
Lake County – EW M/D – EW Vehicles – Negley Fire Department/EMS	Dennis Wilford	ICFI

Ashtabula County		
Ashtabula County – MARCS Communications Test	Rosemary Samsel	ICFI
Ashtabula County – 911 / Dispatch Center – INP	Davis Persaud	DHS/FEMA
Ashtabula County – EOC	Davis Persaud	DHS/FEMA
Ashtabula County – EOC	Brian Clark	ICFI
Ashtabula County – EOC – Executive Group	Rosemary Samsel	ICFI
Ashtabula County – EOC – PIO	Rosemary Samsel	ICFI
Ashtabula County – PNPP – PIO	Frank Cordaro	ICFI

Ashtabula County – Out-of-Sequence		
Ashtabula County – TCP/ACP – DC Briefing / Dosimetry Distribution – Geneva-on-the-Lake Police Department	Michael Henry	ICFI
Ashtabula County – TCP/ACP – Interview – Geneva-on-the-Lake Police Department	John Wiecejorek	ICFI
Ashtabula County – Congregate Care Center – Edgewood High School– American Red Cross	Thomas Reynolds	ICFI
Ashtabula County – Backup Route Alerting– DC Briefing / Dosimetry Distribution – Geneva-on-the-Lake Fire Department	Michael Burris	ICFI
Ashtabula County – Backup Route Alerting – Geneva-on-the-Lake Fire Department	Thomas Gahan	ICFI

Evaluated Offsite Response Organizations/Locations	Evaluator	Agency/ Organization
Geauga County		
Geauga County – MARCS Communications Test	Clark Duffy	ICFI
Geauga County – 911 / Dispatch Center – INP	Todd Lawson	DHS/FEMA
Geauga County – EOC	Paul Ringheiser	ICFI
Geauga County – EOC	Brenda Rembert	ICFI
Geauga County – EOC – Executive Group	Clark Duffy	ICFI
Geauga County – EOC – PIO	Clark Duffy	ICFI
Geauga County – PNPP – PIO	Frank Cordaro	ICFI
Geauga County – TCP/ACP – DC Briefing / Dosimetry Distribution – Geauga County Sheriff's Office	John Wiecejorek	ICFI
Geauga County – TCP/ACP – Interview – Geauga County Sheriff's Office	Todd Lawson	DHS/FEMA

Geauga County – Out-of-Sequence		
Geauga County – Backup Route Alerting– DC Briefing / Dosimetry Distribution – Thompson Fire Department	Don Carolton	ICFI
Geauga County – Backup Route Alerting – Thompson Fire Department	Thomas Gahan	ICFI

APPENDIX D: Acronyms and Abbreviations

ACRONYM	DESCRIPTION
AAA	Area Agency on Aging
AAR	After Action Report
AG	Assessment Group
Ag	Agricultural
ANS	Alert and Notification System
ARC	American Red Cross
ARES	Amateur Radio Emergency Services
AuxComm	Auxiliary Communications
Bk/Up	Backup
CAP	Civil Air Patrol
CCC	Congregate Care Center
CD V	Civil Defense Victoreen
CDE	Committed Dose Equivalent
CE	County Engineer
CEDE	Combined Effective Dose Equivalent
CERT	Community Emergency Response Team
CFR	Code of Federal Regulations
CHJCF	Cuyahoga Hills Juvenile Correctional Facility
cpm	counts per minute
cm	centimeter
Cs	Cesium
DAG	Dose Assessment Group
DAR	Dose Assessment Room (at State and County EOCs)
DC	Dosimetry Coordinator
DES	Department of Emergency Services
DHS	Department of Homeland Security
DOE	Department of Energy
DPM	Department of Public Safety
DPS	Disaster Preparedness Specialist
DRD	Direct Reading Dosimeter
DRF	Dosimetry Report Form
EAL	Emergency Action Level
EAS	Emergency Alert System
ECL	Emergency Classification Level
ED	Executive Director
EDL	Executive Discussion Line
EDT	Eastern Daylight Time
EG	Executive Group
EMA	Emergency Management Agency

ACRONYM	DESCRIPTION
EMD	Emergency Management Director
EMS	Emergency Medical Service
EMT	Emergency Medical Technician
EOC	Emergency Operation Center
EOF	Emergency Operations Facility
EPD	Electronic Personal Dosimeter
EPT	Exercise Planning Team
EPZ	Emergency Planning Zone
ER	Executive Room
ESF	Emergency Support Function
ETE	Evacuation Time Estimate
EW	Emergency Worker
EWDC	Emergency Worker Decontamination Center
FD	Fire Department
FEMA	Federal Emergency Management Agency
FENOC	FirstEnergy Nuclear Operating Company
FMTC	Field Monitoring Team Coordinator
FMT(s)	Field Monitoring Team(s)
g	gram(s)
GE	General Emergency (Emergency Classification Level)
GIS	Geographical Information System
GM	Geiger-Mueller
GOTL	Geneva-on-the-Lake
gpm	gallons per minute
GPS	Global Positioning System
GRPD	(Village of) Grand River Police Department
HEPA	High Efficiency Particulate Air
IC	Incident Commander
INF	Initial Notification Form
INP	Initial Notification Point
IP	Improvement Plan
IWP	Initial Warning Point
JIC	Joint Information Center
JIS	Joint Information System
JIT	Just In Time (training)
KI	Potassium Iodide
KV	KiloVolts
LARA	Lake Amateur Radio Association
LCCCC	Lake County Central Communications Center
LCGHD	Lake County General Health District
LEADS	Law Enforcement Automated Data System
LEC	Law Enforcement Coordinator

ACRONYM	DESCRIPTION
LPM	Liters Per Minute
M/D	Monitoring/Decontamination
MARCS	Multi-Agency Radio Communications System
MIDAS	Meteorological Information Dose Assessment System
μCi/hr	micro (10 ⁻⁶) Curies per hour
μCi/ml	micro (10 ⁻⁶) Curies per milliliter
mg	milligram
MHz	Megahertz
min	minute(s)
MPH/mph	miles per hour
μR	micro (10 ⁻⁶) R/micro Roentgen
mR	milliRoentgen
mR/hr	milliRoentgen/hr
NIMS	National Incident Management System
NOAA	National Oceanic and Atmospheric Administration
NRC	Nuclear Regulatory Commission
NWS	National Weather Service
ODA	Ohio Department of Agriculture
ODAT	Ohio Dose Assessment Team
ODH	Ohio Department of Health
ODJFS	Ohio Department of Jobs and Family Services
ODNR	Ohio Department of Natural Resources
ODOT	Ohio Department of Transportation
ODPS	Ohio Department of Public Safety
OIC	Officer-In-Charge
Ohio EMA	Ohio Emergency Management Agency
OEPA	Ohio Environmental Protection Agency
OPHCS	Ohio Health Care System
OMHAS	Ohio Department of Mental Health and Addition Services
ONG	Ohio National Guard
OOS	Out-of-Sequence
ORO	Offsite Response Organizations
OSFM	Ohio State Fire Marshall
OSHP	Ohio State Highway Patrol
OSLD	Optically Stimulated Luminescence Dosimeter
PAD	Protective Action Decision
PAG	Protective Action Guideline
PAR	Protective Action Recommendation
PDAFNs	Persons with Disabilities and Access/Functional Needs
PD	Police Department
PDP	Personal Dosimetry Packet
PIO	Public Information Officer

ACRONYM	DESCRIPTION
PNPP	Perry Nuclear Power Plant
PPE	Personal Protective Equipment
ppm	parts per million
PRD	Permanent Record Dosimeter
R	Roentgen
RAC	Regional Assistance Committee
RADEF	Radiological Defense
RC	Reception Center
RCM	Reception Center Manager
RCS	Reactor Containment System
RDO	Radiological Defense Officer
rem	radiation exposure man
REP	Radiological Emergency Preparedness
RERP	Radiological Emergency Response Plan
RESA	Regional Education Service Agency
RIMC	Radiological Instrumentation, Maintenance and Calibration
RO	Radiological Officer
RRA	Resident Radiological Analyst
SAE	Site Area Emergency (Emergency Classification Level)
SDC	Sheriff's Dispatch Center
SEOC	State Emergency Operations Center
SIB	Special Information Bulletin
SIP	Shelter-in-Place
SitUnit	Situation Unit (in the Ohio SEOC Assessment Room)
SNB	Special News Bulletin
SO	Sheriff's Office
SOG	Suggested Operating Guideline / Standard Operating Guideline
SOP	Standard Operating Procedure
SSS	Sample Screening Station
TACP	Traffic and Access Control Point
TCP	Traffic Control Point
TEDE	Total Effective Dose Equivalent
TFD/MFD	Thompson Fire Department/Montville Fire Department
THD	Technological Hazards Division
TLD	Thermoluminescent Dosimeter
TS	Transportation Supervisor
UE	Unusual Event (Emergency Classification Level)
UHF	Ultra-High Frequency
USCG	United States Coast Guard
VHF	Very High Frequency
VOAD	Voluntary Organizations Active in Disaster
WENS	Wireless Emergency Notification System

ACRONYM	DESCRIPTION
WiFi	Trade name for “IEEE 802.11x Direct Sequence” wireless network connectivity operating on 2.4GHz or 5GHz radio frequencies.

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APPENDIX E: Extent-of-Play Agreements

**STATE OF OHIO
AND
ASHTABULA, GEAUGA, AND LAKE COUNTIES
PERRY NUCLEAR POWER PLANT
RADIOLOGICAL EMERGENCY PREPAREDNESS
FULL PARTICIPATION
PLUME EXPOSURE PATHWAY EXERCISE
SEPTEMBER 18, 2018**

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**PERRY NUCLEAR POWER PLANT
RADIOLOGICAL EMERGENCY RESPONSE
FULL PARTICIPATION
PLUME EXPOSURE PATHWAY EXERCISE
2018**



**STATE OF OHIO
EXTENT-OF-PLAY AGREEMENT**

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Overview

Introduction

This document constitutes the State of Ohio's Extent-of-Play Agreement (EoPA) for the 2018 Perry Nuclear Power Plant Radiological Emergency Preparedness Plume Pathway Exercise being conducted on September 18, 2018. The exercise will be a Full Participation exercise for the State of Ohio. This Extent-of-Play Agreement was developed by the Exercise Planning Team in consultation with FEMA and the January 2016 edition of the FEMA REP Program Manual.

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Topic	See Page
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Acronyms	PNPP	-	Perry Nuclear Power Plant
	DRD	-	Direct Reading Dosimeter
	ECL	-	Emergency Classification Level
	EMA	-	Emergency Management Agency
	EOF	-	Emergency Operations Facility
	FEMA	-	Federal Emergency Management Agency
	FMT	-	Field Monitoring Team
	JIC	-	Joint Information Center
	KI	-	Potassium Iodide
	MSEL	-	Master Scenario Events List
	NRC	-	Nuclear Regulatory Commission
	ODH	-	Ohio Department of Health
	ODNR	-	Ohio Department of Natural Resources
	ORO	-	Offsite Response Organization
	OSHP	-	Ohio State Highway Patrol
	PAD	-	Protective Action Decision
	PAG	-	Protective Action Guide
	PAR	-	Protective Action Recommendation
	PRD	-	Permanent Reading Dosimeter
	SEOC	-	State Emergency Operations Center
	TACP	-	Traffic & Access Control Point

General Information

- Exercise Scope** The State of Ohio will partially participate in this exercise, sufficient to support demonstrations by Ashtabula, Geauga, and Lake Counties. In-sequence activities will be conducted on Tuesday, September 18, 2018, at the following locations:
- Emergency Operations Facility (EOF)
 - State Initial Warning Point (OSHP Dispatch Center)
 - State Emergency Operations Center (SEOC)
 1. State Executive Room
 2. State Assessment Room
 3. State Operations Room
 4. State JIC
 - Perry Nuclear Power Plant (PNPP) Joint Information Center (JIC).
- Out-of-sequence activities will be conducted on Wednesday, September 19, 2018 for:
- ODNR Parks and Watercraft
 - Field Team Activities

- Exercise Support**
- The State will develop and implement a Master Scenario Events List (MSEL) sufficient to drive actual and simulated State play. Sufficient Controllers will be on hand to provide injects to drive the scenario. All Controller Injects and the MSEL will be provided to FEMA for review at least 30 days prior to the exercise.
 - The State of Ohio will brief FEMA Evaluators regarding conduct of the exercise at the FEMA Pre-Exercise Meeting on Monday, September 17, 2018.

Criteria

Criteria that will be demonstrated during this exercise and can be re-demonstrated immediately for credit, at the decision of the Evaluator, include the following: 3.a.1, 3.b.1, 3.c.1., 3.c.2, 3.d.1, 6.a.1, 6.b.1, 6.c.1 and 6.d.1.

Criteria that may be re-demonstrated, as approved on a case-by-case basis by the Chairman of the Radiological Preparedness Coordinating Committee, include the following: 2.a.1, 2.b.1, 2.b.2, 3.d.2, 5.a.1 and 5.b.1.

- Participating Organizations**
- Organizations participating in this exercise include:
- American Red Cross (ARC)
 - Medicaid
 - Ohio Department of Aging
 - Ohio Department of Agriculture (ODA)
 - Ohio Department of Developmental Disabilities
 - Ohio Department of Health (ODH)
 - Ohio Department of Job and Family Services (ODJFS)
 - Ohio Department of Mental Health and Addiction Services (Ohio MHAS)
 - Ohio Department of Natural Resources (ODNR)
 - Ohio Department of Public Safety (DPS)
 - Ohio Department of Transportation (ODOT)
 - Ohio Department of Youth Services
 - Ohio Emergency Management Agency (Ohio EMA)
 - Ohio Environmental Protection Agency (OEPA)
 - Ohio National Guard (OHNG)
 - Ohio State Highway Patrol (OSHP)
 - Salvation Army
 - State Fire Marshall (SFM)

State Field Participation	State personnel to staff field positions will be pre-positioned in the local area the following locations: <ul style="list-style-type: none">• PNPP Emergency Operations Facility• PNPP Joint Information Center• Lake County EOC
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EVALUATION AREA 1 – EMERGENCY OPERATIONS MANAGEMENT

Criterion 1.a.1	OROs use effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner.
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Extent-of-Play 1.a.1	<p>The State Emergency Operations Center (SEOC) and the Ohio Highway Patrol Dispatch Center will receive initial notification over the PNPP 5-way dedicated line. Once the SEOC Assessment Room is activated, all subsequent notifications by phone/fax communications will be received there. Initial warning point responsibilities will terminate following the initial notification, unless the Assessment Room is unable to receive notifications.</p> <p>The State will mobilize all the participating organizations that have responsibilities in the SEOC. Pre-staging will be allowed in Room 204. ESF partners will stagger arrival in the SEOC after notification. The State representatives assigned to the PNPP EOF, PNPP JIC, and the Lake County EOC will be prepositioned in the area and arrive 10-20 minutes after the exercise begins to simulate travel time.</p> <p>The Dose Assessment, Joint Information Center and Executive Rooms at the SEOC will have equipment set up prior to the exercise. The Assessment Room is operational 24/7, therefore will be set up accordingly.</p> <p>The Assessment Room will notionalize the second e-Notify email and phone call. They will also simulate notification phone calls once the Evaluator is satisfied with the notification process</p>
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Criterion 1.b.1	Facilities are sufficient to support the emergency response.
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Extent-of-Play 1.b.1	Not Selected - State facilities were successfully demonstrated during the June 2018 Beaver Valley Power Station exercise
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Criterion 1.c.1	Key personnel with leadership roles for the ORO provide direction and control to that part of the overall response effort for which they are responsible.
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Extent-of-Play 1.c.1	Direction and control of State activities will be demonstrated at the SEOC. The Executive Director of Ohio EMA will coordinate decisions on behalf of the Governor's Office from the SEOC Executive Room and the overall State response from the Executive Room and of the components of the SEOC. The Ohio Department of Health (ODH) is responsible for the determining the State Protective Action Recommendations (PARs) in the SEOC
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Criterion 1.d.1	At least two communication systems are available, at least one operates properly, and communication links are established with appropriate locations. Communications capabilities are managed in support of emergency operations.
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Extent-of-Play 1.d.1	The primary means of communications between the SEOC, the Ashtabula, Geauga, and Lake County EOCs, PNPP JIC, and EOF is by commercial and/or dedicated telephone. Backup communications will be demonstrated via a MARCS radio check. This may be accomplished either as a result of a real-time communications failure or by Controller inject at a time during or after the exercise that does not interfere with exercise play.
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Criterion 1.e.1	Equipment, maps, displays, monitoring instruments, dosimetry, potassium iodide (KI) and other supplies are sufficient to support emergency operations.
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Extent-of-Play 1.e.1	The State will demonstrate the use of equipment, maps and displays to support emergency operations. The maps traditionally used in the SEOC will be available and used for exercise evaluation purposes
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EVALUATION AREA 2 – PROTECTIVE ACTION DECISION MAKING

Criterion 2.a.1	OROs use a decision-making process, considering relevant factors and appropriate coordination, to ensure that an exposure control system, including the use of KI, is in place for emergency workers including provisions to authorize radiation exposure in excess of administrative limits or protective action guides.
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Extent-of-Play 2.a.1	The SEOC Dose Assessment Group will consider PAGs and Administrative Limits to develop recommendations, including KI, based on their technical evaluation of the available data. Recommendations will be briefed to the SEOC Executive Group and subsequently to the Ashtabula, Geauga, and Lake County EOCs. The State and County will disseminate recommendations to their emergency workers. Field monitoring data, appropriate to the scenario, will be provided to the SEOC Dose Assessment Group via the Field Monitoring Team Coordinator (FMT) Controller
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Criterion 2.b.1	Appropriate protective action recommendations (PARs) are based on available information on plant conditions, field monitoring data, and Licensee and ORO dose projections, as well as knowledge of onsite and offsite environmental conditions.
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Extent-of-Play 2.b.1	The SEOC Dose Assessment Group will evaluate the Licensee information and complete independent dose projections and assessment, as appropriate, based on that information and field monitoring data. Assessment Room staff will evaluate the data and brief PARs to the SEOC Executive Room. Approved PARs will then be forwarded to the Ashtabula, Geauga, and Lake County EOCs via a conference line.
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Criterion 2.b.2	A decision-making process involving consideration of appropriate factors and necessary coordination is used to make protective action decisions (PADs) for the general public (including the recommendation for the use of KI, if ORO policy).
Extent-of-Play 2.b.2	<p>The Governor, or his designee, will demonstrate the ability to make appropriate PARs based on technical information from the SEOC Dose Assessment Group. Recommendations concerning the use of KI for the general public, institutionalized individuals, and emergency workers are the responsibility of the ODH. They are made in the SEOC Dose Assessment Room in accordance with the ODH KI Directive and will accompany the PAR.</p> <p>Coordination will take place in the SEOC Executive Room with Ashtabula, Geauga, and Lake Counties to ensure consideration of local needs. After the PAD is made by Ashtabula, Geauga, and Lake Counties, the Counties will disseminate protective actions to the general public</p>

Criterion 2.c.1	Protective action decisions are made, as appropriate, for groups of persons with disabilities and those with access/functional needs
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Extent-of-Play 2.c.1	The recommendation to take KI is issued by the ODH in the SEOC Assessment Room and accompanies the PAR. Upon being briefed to and approved by the Executive Group, it is then forwarded to Ashtabula, Geauga, and Lake Counties for implementation.
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Criterion 2.d.1	Radiological consequences for the ingestion pathway are assessed and appropriate protective action decisions are made based on the ORO's planning criteria.
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Extent-of-Play 2.d.1	Not Selected - The State successfully demonstrated this criterion during the 2012 Perry Nuclear Power Plant exercise.
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Criterion 2.e.1	Timely post-plume phase relocation, reentry, and return decisions are made and coordinated as appropriate, based on assessments of the radiological conditions and criteria in the ORO's plan and/or procedures.
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Extent-of-Play 2.e.1	Not Selected - The State successfully demonstrated this criterion during the 2012 Perry Nuclear Power Plant exercise.
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EVALUATION AREA 3 – PROTECTIVE ACTION IMPLEMENTATION

Criterion 3.a.1	The OROs issue appropriate dosimetry, KI, and procedures, and manage radiological exposure to emergency workers in accordance with the plans/procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart. OROs maintain appropriate record-keeping of the administration of KI to emergency workers.
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Extent-of-Play 3.a.1	Direct Reading Dosimeters (DRDs), Permanent Record Dosimeters (PRDs) and KI will be issued to State of Ohio workers who have assignments in the 10-mile EPZ.
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	If the scenario does not provide for the demonstration of turn back limits, turn back values will be covered by interview with the Evaluator.
Criterion 3.b.1	KI and appropriate instructions are available if a decision to recommend use of KI is made. Appropriate record-keeping of the administration of KI for institutionalized individuals and the general public is maintained.
Extent-of-Play 3.b.1	The ODH Bureau of Environmental Health and Radiation Protection obtained KI via the U.S. NRC for members of the general public. This KI has been distributed to the County health departments within the 10-mile Emergency Planning Zone. County health departments make this KI available to the general public at reception centers during a nuclear emergency. The County health departments will maintain records of this distribution and make the records available for FEMA inspection. (See County Extent-of-Play documents for additional information.)
Criterion 3.c.1	Protective action decisions are implemented for persons with disabilities and access/functional needs other than schools within areas subject to protective actions.
Extent-of-Play 3.c.1	N/A - This is a County function.
Criterion 3.c.2	OROs/school officials implement protective actions for schools
Extent-of-Play 3.c.2	N/A - This is a County function.
Criterion 3.d.1	Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access control personnel.
Extent-of-Play 3.d.1	The State EOC Dose Assessment Group in coordination with the SEOC Executive Group will procedurally demonstrate restricting air, water and rail traffic within the Emergency Planning Zone, as applicable to the scenario. The OSHP coordinates directly with County law enforcement to provide State TACP support. (See County Extent-of-Play documents for additional information.)
Criterion 3.d.2	Impediments to evacuation are identified and resolved.
Extent-of-Play 3.d.2	N/A - This is a County function.
Criterion 3.e.1	The ORO demonstrates the availability and appropriate use of adequate information regarding water, food supplies, milk and agricultural production within the ingestion

exposure pathway emergency planning zone for implementation of protective actions.

Extent-of-Play 3.e.1 Not Selected - The State successfully demonstrated this criterion during the 2012 Perry Nuclear Power Plant exercise.

Criterion 3.e.2 Appropriate measures, strategies and pre-printed instructional material are developed for implementing protective action decisions for contaminated water, food products, milk and agricultural production.

Extent-of-Play 3.e.2 Not Selected - The State successfully demonstrated this criterion during the 2012 Perry Nuclear Power Plant exercise.

Criterion 3.f.1 Decisions regarding controlled re-entry of emergency workers and relocation and return of the public during the post-plume phase are coordinated with appropriate organizations and implemented.

Extent-of-Play 3.f.1 Not Selected - The State successfully demonstrated this criterion during the 2012 Perry Nuclear Power Plant exercise.

EVALUATION AREA 4 – FIELD MEASUREMENT AND ANALYSIS

Criterion 4.a.1 [RESERVED]

Criterion 4.a.2 Field teams (2 or more) are managed to obtain sufficient information to help characterize the release and to control radiation exposure.

Extent-of-Play 4.a.2 During the plume phase activities on September 18, 2018, field team data will be fed to the FMT Communicator from a FMT Coordinator Controller.
During out-of-sequence activities on September 19, 2018, the release will be characterized by three State Field Monitoring Teams (FMTs) composed of Ohio EMA and Ohio Department of Health staff.

Simulated radiation readings will be provided to the FMTs by Controller inject using Teletrix “Virtual Plume” plume simulation software. The teams will receive information about predicted plume location and direction, travel speed, and exposure control procedures via the State FMT Coordinator. If the exercise is driven by a no or minimal release scenario the FMT Coordinator will direct FMTs to sample in locations consistent with exercise meteorological conditions to confirm that radioactive materials in the atmosphere are below EPA Protective Action Guide levels.

The State FMTs will be managed by the State FMT Coordinator from the Lake County EMA. The State FMT Coordinator will arrange for a courier to transport the collected samples to the Sample Screening Point (SSP) for evaluation and preparation for transport to the Ohio Department of Health Laboratory. The Sample Screening Point will be located at the Lake County EMA facilities. State laboratory activities are not being demonstrated, therefore samples will not be transported to the lab.

Chain-of-Custody will be demonstrated by the FMTs, Courier, and Sample Screening personnel as the samples are transferred by the participants and prepared for shipment to the ODH Laboratory.

Criterion 4.a.3	Ambient radiation measurements are made and recorded at appropriate locations, and radioiodine and particulate samples are collected. Teams will move to an appropriate low background location to determine whether any significant (as specified in the plan and/or procedures) amount of radioactivity has been collected on the sampling media.
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Extent-of-Play 4.a.3	State FMTs will perform radiation measurements and collect air samples (using charcoal training cartridges), and then report to a low background area to determine if the samples are adequate to quantify airborne radioactivity. If the exercise is driven by a no or minimal release scenario the FMT Coordinator will direct FMTs to sample in locations consistent with exercise meteorological conditions to confirm that radioactive materials in the atmosphere are below EPA Protective Action Guide levels. Measurements will be made out-of-sequence on September 19, 2018 by State FMTs in accordance with their SOPs. The FMTs will demonstrate ambient radiation monitoring, radioiodine and particulate sampling. The FMTs will be equipped with appropriate dosimetry and KI. The FMT Coordinator will direct each team from the Lake County EMA.
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State FMTs will perform radiation measurements and collect air samples (using charcoal training cartridges), and then report to a low background area to determine if the samples are adequate to quantify airborne radioactivity. If the exercise is driven by a no or minimal release scenario the FMT Coordinator will direct FMTs to sample in locations consistent with exercise meteorological conditions to confirm that radioactive materials in the atmosphere are below EPA Protective Action Guide levels. Measurements will be made out-of-sequence on September 19, 2018 by State FMTs in accordance with their SOPs. The FMTs will demonstrate ambient radiation monitoring, radioiodine and particulate sampling. The FMTs will be equipped with appropriate dosimetry and KI. The FMT Coordinator will direct each team from the Lake County EMA.

Readings will be reported to the State FMT Coordinator who will report these readings to the Radiological Assessment Group in Columbus and arrange for a Courier to simulate transport the samples to the Sample Screening Point at the Lake County EMA. The Sample Screening personnel will evaluate and prepare the samples for transport to the Ohio Department of Health (ODH) Laboratory. The ODH laboratory is not being evaluated; therefore samples will not be transported to the lab.

Criterion 4.b.1	Field teams (2 or more) demonstrate the capability to make appropriate measurements and to collect appropriate samples (e.g., food crops, milk, water, vegetation, and soil) to support adequate assessments and protective action decision-making.
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Extent-of-Play 4.b.1	Not Selected - The State successfully demonstrated this criterion during the 2012 Perry Nuclear Power Plant exercise.
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Criterion 4.c.1	The laboratory is capable of performing required radiological analyses to support protective action decisions.
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Extent-of-Play 4.c.1	Not Selected - The State successfully demonstrated this criterion during the 2012 Perry Nuclear Power Plant exercise.
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EVALUATION AREA 5 – EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

Criterion 5.a.1	Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. The initial instructional message to the public must include as a minimum the elements required by current REP guidance.
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Identification of the State or local government organization and the official with the authority for providing the alert signal and instructional message.

Identification of the commercial nuclear power plant and a statement that an emergency situation exists at the plant.

Reference to REP-specific emergency information (e.g., brochures and information in telephone books) for use by the general public during an emergency.

A closing statement asking the affected and potentially affected population to stay tuned for additional information.

**Extent-of-Play
5.a.1**

Once a protective action decision is reached by Ashtabula, Geauga, and Lake Counties that requires the activation of the alert and notification system, the Counties will simulate the initiation of the sirens. EAS messages will be prepared by County officials and they will simulate providing them to the EAS Station. (See Ashtabula, Geauga, and Lake County Extent-of-Play Agreements for further details.) The State also notifies the public on Lake Erie (within the 10-mile EPZ) through the U.S. Coast Guard, as supported by Ohio Department of Natural Resources (ODNR). An out of sequence interview will be conducted with ODNR at 10:00am on Wednesday, September 19th, 2018, at the Division of Parks and Watercraft offices at 1150 East 49th Street, Cleveland, Ohio.

Criterion 5.a.2

[RESERVED]

Criterion 5.a.3

Backup alert and notification of the public is completed within a reasonable time following the detection by the ORO of a failure of the primary alert and notification system.

**Extent-of-Play
5.a.3**

N/A - This is a County function.

Criterion 5.a.4

Activities associated with FEMA-approved exception areas (where applicable) are completed within 45 minutes of the initial decision by authorized offsite emergency officials to notify the public of an emergency situation.

**Extent-of-Play
5.a.4**

N/A – The State of Ohio has no FEMA-approved Exception Areas at this time.

Criterion 5.b.1

OROs provide accurate subsequent emergency information and instructions to the public and the news media in a timely manner.

**Extent-of-Play
5.b.1**

The State PIO and a representative from ODH will be present at the PNPP JIC to address technical aspects of State PARs being implemented, and the activities taking place at the State and County levels. Public information representatives from Ohio EMA will be present in the SEOC (State JIC) to communicate with the PNPP JIC. A Public Inquiry telephone line will be established and demonstrated in the State JIC via Controller injects. Sufficient injects will be used to allow State JIC personnel to identify and respond to trends.

EVALUATION AREA 6 – SUPPORT OPERATION/FACILITIES

Criterion 6.a.1 The reception center has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees and/or emergency workers.

Extent-of-Play 6.a.1 N/A - This is a County function.

Criterion 6.b.1 The facility/ORO has adequate procedures and resources to accomplish monitoring and decontamination of emergency workers and their equipment and vehicles.

Extent-of-Play 6.b.1 N/A - This is a County function.

Criterion 6.c.1 Managers of congregate care facilities demonstrate that the centers have resources to provide services and accommodations consistent with American Red Cross planning guidelines. Managers demonstrate the procedures to assure that evacuees have been monitored for contamination and have been decontaminated as appropriate prior to entering congregate care facilities.

Extent-of-Play 6.c.1 N/A - This is a County function.

Criterion 6.d.1 The facility/ORO has the appropriate space, adequate resources, and trained personnel to provide transport, monitoring, decontamination, and medical services to contaminated injured individuals.

Extent-of-Play 6.d.1 N/A - This is a County function.

Evaluation Locations

Initial Warning Point / State EOC / Assessment / Dose Assessment / State JIC	Address	2855 West Dublin-Granville Road Columbus, Ohio 43235
	Contact	Chris Salz
	Phone	614-799-3687
	Cell Phone	614-558-2622

PNPP Joint Information Center	Address	Auburn Career Center 8140 Auburn Road Concord Township, Ohio 44077
	Contact	Kelli Blackwell
	Phone	
	Cell Phone	614-715-6647

Field Monitoring Teams	Address	1296 Kinnear Road Columbus, Ohio
	Contact	Rob Stone
	Phone	614-799-6620
	Cell Phone	614-980-9525
Sample Screening Point	Address	Lake County EMA 8505 Garfield Road Mentor, OH 44060
	Contact	Rob Stone
	Phone	614-799-6620
	Cell Phone	614-980-9525

PNPP EOF	Address	Emergency Operations Facility (EOF) 7751 Auburn Road Concord Township, Ohio 44077
	Contact	TBD
	Phone	TBD
	Cell Phone-	TBD

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**PERRY NUCLEAR POWER PLANT
RADIOLOGICAL EMERGENCY RESPONSE
FULL PARTICIPATION
PLUME EXPOSURE PATHWAY EXERCISE
2018**



**LAKE COUNTY, OHIO
EXTENT-OF-PLAY AGREEMENT**

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The EOC portion of the exercise will take place on September 18, 2018.

Criteria that will be demonstrated during this exercise and can be re-demonstrated immediately for credit, at the decision of the Evaluator, include the following: 3.a.1, 3.b.1, 3.c.1., 3.c.2, 3.d.1, 6.a.1, 6.b.1, 6.c.1 and 6.d.1.

Criteria that may be re-demonstrated, as approved on a case-by-case basis by the Chairman of the Radiological Preparedness Coordinating Committee, include the following: 2.a.1, 2.b.1, 2.b.2, 3.d.2, 5.a.1 and 5.b.1.

EVALUATION AREA 1 – EMERGENCY OPERATIONS MANAGEMENT

Criterion 1.a.1: OROs use effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner.

Extent-of-Play

Lake County EOC Staff will mobilize upon notification from the Lake County Sheriff's Central Communications Dispatch Center, which is the 24-hour notification point and receives the call via a dedicated line from the Perry Plant. Full field notification utilizing primary means of communication will be completed one time only from the EOC, at the Site Area Emergency classification.

Field agency demonstrations will be conducted out-of-sequence and participants will be pre-positioned.

Field activity participants

LeRoy Township Fire Department – Backup Route Alerting
Mentor Fire Department – Emergency Worker Monitoring &
Decontamination at Mentor SD's Jerry Osborne
Conditioning Center
Painesville City School District – Risk School
Riverside School District – Risk School
Grand River Police Department – Traffic/Access Control, by interview at the police
department
Fairport Harbor Police Department – Traffic/Access Control, by interview at the police
department

Criterion 1.b.1: Facilities are sufficient to support the emergency response.

Extent-of-Play

N/A – The EOC and JIC were both evaluated during the 2014 Exercise; no changes have been made.

Criterion 1.c.1: Key personnel with leadership roles for the ORO provide direction and control to that part of the overall response effort for which they are responsible.

Extent-of-Play

Direction and control of emergency operations will be demonstrated in accordance with the exercise scenario, the Lake County Radiological Emergency Response Plan, Agency SOG and as appropriate for out-of-sequence field demonstrations.

Criterion 1.d.1: At least two communication systems are available, at least one operates properly, and communication links are established with appropriate locations. Communications capabilities are managed in support of emergency operations.

Extent-of-Play

Primary (dedicated phone lines and commercial telephone) and secondary (radio/pagers/cell phones) means of communications will be demonstrated by interview at the EOC and as appropriate for out-of-sequence field demonstrations. Controllers will drive field play.

Full field notification utilizing primary means of communication will be completed one time only from the EOC, at the Site Area Emergency classification.

Criterion 1.e.1: Equipment, maps, displays, monitoring instruments, dosimetry, potassium iodide (KI) and other supplies are sufficient to support emergency operations.

Extent-of-Play

The EOC will demonstrate the use of equipment, maps and displays to support emergency operations

In addition to the KI that the local health department made available to the general public to pick up, there is a quantity stockpiled at the EOC that would be transported to the care centers and distributed by the local health department, as requested.

Emergency Worker KI has an expiration date of 12/31/2019; the public KI has an expiration date of 4/30/2020.

EVALUATION AREA 2 – PROTECTIVE ACTION DECISION MAKING

Criterion 2.a.1: OROs use a decision-making process, considering relevant factors and appropriate coordination, to ensure that an exposure control system, including the use of KI, is in place for emergency workers, including provisions to authorize radiation exposure in excess of administrative limits or protective action guides.

Extent-of-Play

Lake County relies on the Ohio Department of Health (ODH) for the recommendation to take KI. For out-of-sequence field agency demonstrations, this will be demonstrated by interview with exercise participants or by Controller inject, if necessary.

Criterion 2.b.1: Appropriate protective action recommendations (PARS) are based on available information on plant conditions, field monitoring data, and licensee and ORO dose projections, as well as knowledge of on-site and offsite environmental conditions.

Extent-of-Play

N/A – Lake County relies on the State of Ohio.

Criterion 2.b.2: A decision-making process involving consideration of appropriate factors and necessary coordination is used to make precautionary and/or protective action decisions (PADs) for the general public (including the recommendation for the use of KI, if ORO policy).

Extent-of-Play

The Lake County EOC Executive Group will demonstrate this criterion in coordination with Geauga and Ashtabula counties' Executive Groups and the State of Ohio.

The Director, or designee, of the Ohio Department of Health (ODH) makes the decision for the general public and emergency workers to take KI. The ODH through the local health department makes KI available to the general public, by pre-distribution and by supplies available for distribution at the time of the emergency at care centers.

Criterion 2.c.1: Precautionary and/or protective action decisions are made, as appropriate, for groups or persons with disabilities and access/functional needs.

Extent-of-Play

The Lake County EOC Executive Group will demonstrate this criterion in coordination with Geauga and Ashtabula counties' Executive Groups. Typically, schools relocate at Site Area Emergency per procedures. If not relocated prior to General Emergency, schools follow the protective action decisions for the general public; they are not considered a special population group.

Criterion 2.d.1: Radiological consequences for the ingestion pathway are assessed and appropriate protective action decisions are made based on the ORO's planning criteria.

Extent-of-Play

N/A – Lake County relies on the State of Ohio.

Criterion 2.e.1: Timely post-plume phase relocation, reentry, and return decisions are made and coordinated as appropriate, based on assessments of the radiological conditions and criteria in the ORO's plan and/or procedures.

Extent-of-Play

N/S - This Criterion will not be demonstrated.

EVALUATION AREA 3 – PROTECTIVE ACTION IMPLEMENTATION

Criterion 3.a.1: The OROs issue appropriate dosimetry, KI, and procedures, and manage radiological exposure to emergency workers in accordance with the plans/procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart. OROs maintain appropriate record-keeping of the administration of KI to emergency workers.

Extent-of-Play

The Lake County EOC Radiological Officer will demonstrate radiation exposure control capabilities. Dosimetry and exposure control procedures will be demonstrated by field agencies during out-of-sequence exercise activities.

Field activity participants:

Dosimetry briefing:

LeRoy Fire Department – Backup Route Alerting.

Mentor Fire Department – Emergency Worker Monitoring/Decontamination at the
Mentor SD's Jerry Osborne Conditioning Center.

Grand River Police Department – Traffic/Access Control by interview at the police
department.

Fairport Harbor Police Department – Traffic/Access Control by interview at the police
department.

Painesville City School District – Interview of Transportation Supervisor & bus operator
only.

Riverside School District – Interview of Transportation Supervisor & bus operator only.

Criterion 3.b.1: KI and appropriate instructions are available if a decision to recommend use of KI is made. Appropriate record-keeping of the administration of KI for institutionalized individuals is maintained.

Extent-of-Play

The Ohio Department of Health (ODH) will make recommendations regarding the use of KI. Lake County's preparedness measures for KI include pre-distribution to emergency response agencies and to the general public, if they chose to pick it up at designated centers. At the time of the emergency, the agencies distribute the dosimetry and KI to the emergency workers. Demonstration of this criterion may be facilitated by discussion with the Lake County General Health District Coordinator at the EOC. For field agency demonstrations, KI procedures will be demonstrated by interview with exercise participants or by Controller inject, if necessary.

Dosimetry and KI have been pre-distributed to Offsite Response Organizations (OROs); the monitoring kits and dosimetry are exchanged annually by the State of Ohio. Supporting documentation is included in the Annual Letter of Certification.

Extent-of-Play

Interview the EOC Lake County General Health District (LCGHD) representative during the exercise regarding the distribution of KI for the public at the care center.

Criterion 3.c.1: Precautionary and/or protective action decisions are implemented for persons with disabilities and access/ functional needs other than schools within areas subject to protective actions.

Extent-of-Play

Notification to individuals with special needs within the Lake County portion of the EPZ will be simulated. A list of special needs residents within the Lake County portion of the EPZ is maintained by the Lake County Department of Job and Family Services and the Lake County EMA. The Department of Job and Family Services Coordinator at the EOC will coordinate special needs notification activities and, upon request, will present the confidential list for review by the FEMA Evaluator. At least 4 transportation providers, which in Lake County include school districts, will be contacted to ensure availability of buses and drivers.

Criterion 3.c.2: OROs/School officials implement precautionary and/or protective actions for schools.

Extent-of-Play

The school districts will demonstrate this criterion out-of-sequence, by interview with the superintendent, high school principal, transportation supervisor and a bus operator. School officials follow the protective action decisions made by the elected officials for the general public, if the school districts' superintendents have not made the decision to relocate prior to a General Emergency.

The use of dosimetry and KI will be discussed with transportation personnel only. If the school district has elected to have KI available for students, it is an internal policy and will be discussed during the interview.

During the exercise, all schools in the EPZ will be notified as identified in Criterion 1.a.1, Extent-of-Play. The EOC County School Services Representative will follow their Suggested Operating Guideline (SOG) during the Exercise.

There will be no movement of buses or students.

Field agency participants

Painesville City School District
Riverside School District

Criterion 3.d.1: Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access control personnel.

Extent-of-Play

A representative of the police departments listed will demonstrate Traffic and Access Control out-of-sequence, by interview at their respective stations.

Notification of rail, water and air traffic is a State function.

Field activity participants:

Grand River Police Department
Fairport Harbor Police Department

Criterion 3.d.2: Impediments to evacuation are identified and resolved.

Extent-of-Play

Lake County EOC will demonstrate the capability to identify and take the appropriate actions in dealing with impediments to evacuation. Actual resources will not be utilized. If an impediment cannot be removed in a timely manner, the decision to reroute traffic will be discussed and implemented by the appropriate EOC Staff.

Criterion 3.e.1: The ORO demonstrates the availability and appropriate use of adequate information regarding water, food supplies, milk and agricultural production within the ingestion exposure pathway emergency planning zone for implementation of protective actions.

Extent-of-Play

N/A – Lake County relies on the State of Ohio.

Criterion 3.e.2: Appropriate measures, strategies and pre-printed instructional material are developed for implementing protective action decisions for contaminated water, food products, milk and agricultural production.

Extent-of-Play

N/A – Lake County relies on the State of Ohio.

Criterion 3.f.1: Decisions regarding controlled reentry, relocation, and return of individuals during the post-plume phase are coordinated with appropriate organizations and implemented.

Extent-of-Play

N/S - This Criterion will not be demonstrated.

EVALUATION AREA 4 – FIELD MEASUREMENT AND ANALYSIS

Criterion 4.a.1: (RESERVED)

Criterion 4.a.2: Field teams (2 or more) are managed to obtain sufficient information to help characterize the release and to control radiation exposure.

Extent-of-Play

Lake County Health District will demonstrate the use of two Field Monitoring Teams (FMTs), in sequence with the EOC portion of the exercise.

Lake County FMT data is utilized for validation purposes and is not used to generate PARs.

Criterion 4.a.3: Ambient radiation measurements are made and recorded at appropriate locations, and radioiodine and particulate samples are collected. Teams will move to an appropriate low background location to determine whether any significant (as specified in the plan and/or procedures) amount of radioactivity has been collected on the sampling media.

Extent-of-Play

For the exercise, expired silver zeolite cartridges will be used; new cartridges will be available for the FEMA Evaluator's observation.

Criterion 4.b.1: The field teams (2 or more) demonstrate the capability to make appropriate measurements and to collect appropriate samples (e.g., food crops, milk, water, vegetation, and soil) to support adequate assessments and protective action decision making.

Extent-of-Play

N/A - Lake County relies on the State of Ohio.

Criterion 4.c.1: The laboratory is capable of performing required radiological analyses to support protective action decisions.

Extent-of-Play

N/A - Lake County relies on the State of Ohio.

EVALUATION AREA 5 – EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

Criterion 5.a.1: Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. The initial instructional message to the public must include as a minimum the elements required by current REP guidance.

Extent-of-Play

Upon a protective action decision (PAD) by the combined Executive Groups of Ashtabula, Geauga and Lake Counties, the Lake County EOC Staff will prepare the appropriate Emergency Alert System (EAS) message and simulate sounding the sirens and sending the message over the EAS system. A silent siren test will be demonstrated by the Lake County EOC in lieu of an actual siren sounding. **[FEMA NOTE: Per joint FEMA/State/County agreement reached on September 12, a silent siren test will NOT be performed – activation will be simulated during interview with the Evaluator].**

Simulation of sending the EAS message(s) will be conducted as follows:

The procedure for the EAS encoder will be followed to deliver the message to WTAM, the Local Primary Station, with the exception that the telephone number to the station will not be dialed. By not connecting to WTAM, there is no possibility of accidentally broadcasting the message over one or more of the participating EAS stations. The "send" button on the Lake County EAS encoder will be depressed and this action will activate the outgoing alert light and playback of the

recorded message. Also, a data sheet will automatically be printed by the encoder and the time recorded on the data sheet. Ashtabula and Geauga counties have EAS equipment (encoder) and could perform this function, if necessary.

Lake County will fax or email a copy of the EAS message(s) to the Joint Information Center (JIC) where Public Information Officers (PIOs) may distribute hard copies to the news media representatives and may, if time and circumstances permit, make an announcement regarding the message. Otherwise, the EAS message can be announced at the next scheduled press briefing or in response to news media inquiries about the PAD message. In delivering information about the EAS message just released, the counties' PIOs may indicate that a corresponding Special News Bulletin (SNB) will be issued soon. Lake County will also fax or email a copy of the EAS message to Ashtabula and Geauga counties' EOCs.

Criterion 5.a.2: (RESERVED)

Criterion 5.a.3: Backup alert and notification of the public is completed within a reasonable time following the detection by the ORO of a failure of the primary alert and notification system.

Extent-of-Play

The LeRoy Township Fire Department will demonstrate back-up route alerting as an out-of-sequence, prepositioned field activity. One predetermined siren located in the fire department's jurisdiction will be out of service (simulated) and back-up route alerting will be conducted in the siren coverage area. Use of the mobile PA system will be simulated during the demonstration; an audible PA test will be conducted prior to departure. The demonstration will be initiated by the exercise Controller.

Field Activity Participants

LeRoy Fire Department

Criterion 5.a.4: Activities associated with FEMA-approved exception areas (where applicable) are completed within 45 minutes following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation.

Extent-of-Play

N/A – There are no exception areas in the PNPP siren coverage area.

Criterion 5.b.1: OROs provide accurate subsequent emergency information and instructions to the public and the news media in a timely manner.

Extent-of-Play

Based upon the combined PAD(s) of the Executive Groups of Ashtabula, Geauga and Lake counties, the Lake County EOC Staff will prepare and issue the appropriate EAS message(s) and the corresponding Special News Bulletin(s) (SNB). SNB's give the same message as their corresponding EAS message except SNB's provide greater detail. Lake County will FAX or email the SNB(s) to the Joint Information Center (JIC) where one of the counties' PIOs will represent the three counties by directly proceeding to the briefing room and reading the contents of the message to the assembly of news media representatives and answering any questions

pertaining to the message. This briefing should begin in a timely manner after transmission of the EAS message from the Lake County EOC to the Local Primary EAS Station. Hard copies of the SNB(s) will be distributed to the news media representatives.

Ashtabula, Lake and Geauga counties will also coordinate release of other informational and instructional messages as necessary. Such messages may include Special Information Bulletins (SIB), which are a third category of prepared messages contained in the counties' "SOG for EAS Messages, Special News Bulletins, and Special Information Bulletins pertaining to the Perry Nuclear Power Plant." These SIB's are considered routine, meaning that they are to be delivered by one of the counties' PIOs at the next scheduled press briefing.

Public Inquiry Workers at the EOC will answer calls from the public. At least two trends will be demonstrated.

EVALUATION AREA 6 – SUPPORT OPERATION/FACILITIES

Criterion 6.a.1: The reception center facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees of emergency workers.

Extent-of-Play

N/S - This Criterion will not be demonstrated.

Criterion 6.b.1: The facility/ORO has adequate procedures and resources to accomplish monitoring and decontamination of emergency workers and their equipment and vehicles.

Extent-of-Play

Mentor Fire Department will demonstrate the emergency worker facility out-of-sequence at Mentor School District's Jerome Osborne Conditioning Center, Mentor. Two monitoring demonstrations will be conducted using a portal monitor. One individual with simulated contamination will be walked through the monitoring and decontamination process, which includes whole body monitoring using a survey meter; contamination levels will be provided by a Controller. Decontamination will be simulated.

One vehicle will be monitored and decontamination will be procedurally explained; no actual decontamination will take place.

Field Activity Participants

Mentor Fire Department

Criterion 6.c.1: Managers of congregate care facilities demonstrate that the centers have resources to provide services and accommodations consistent with American Red Cross planning guidelines. Managers demonstrate the procedures to assure that evacuees have been monitored for contamination and have been decontaminated as appropriate prior to entering congregate care facilities.

Extent-of-Play

N/S - This Criterion will not be demonstrated.

Criterion 6.d.1: The facility/ORO has the appropriate space, adequate resources, and trained personnel to provide transport, monitoring, decontamination, and medical services to contaminated injured individuals.

Extent-of-Play

Lake County will not demonstrate this criterion during the exercise. The MS-1 portion of the Evaluated Exercise was conducted on September 26, 2017.

**PERRY NUCLEAR POWER PLANT
RADIOLOGICAL EMERGENCY RESPONSE
FULL PARTICIPATION
PLUME EXPOSURE PATHWAY EXERCISE
2018**



**ASHTABULA COUNTY, OHIO
EXTENT-OF-PLAY AGREEMENT**

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The EOC portion of the exercise will take place on September 18, 2018.

Criteria that can be re-demonstrated immediately for credit, by a decision of the Evaluator, include the following: 3.a.1, 3.b.1, 3.c.1., 3.c.2, 3.d.1, 6.a.1, 6.b.1, 6.c.1 and 6.d.1.

Criteria that may be re-demonstrated, as approved on a case-by-case basis by the DHS/FEMA Region V Regional Assistance Committee Chairman, include the following: 2.a.1, 2.b.1, 2.b.2, 3.d.2, 5.a.1 and 5.b.1.

EVALUATION AREA 1 – EMERGENCY OPERATIONS MANAGEMENT

Criterion 1.a.1: OROs use effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner.

Extent-of-Play

Ashtabula County EOC Staff will mobilize upon notification from the Ashtabula County Sheriff's Dispatch Center, which is the 24-hour notification point and receives the call via a dedicated line from the Perry Plant. Full field notification utilizing primary means of communication will be completed one time only from the EOC, at the Site Area Emergency classification.

Field agency demonstrations will be conducted out-of-sequence and participants will be pre-positioned.

Field activity participants

Geneva-on-the-Lake Fire Department – Backup Route Alerting

Geneva-on-the-Lake Police Department - Traffic & Access Control, by interview at the police department

American Red Cross at Edgewood High School Care Center

Criterion 1.b.1: Facilities are sufficient to support the emergency response.

Extent-of-Play

The Edgewood High School Care Center will be evaluated.

The EOC and JIC were both evaluated during the 2014 Exercise; no changes have been made.

Criterion 1.c.1: Key personnel with leadership roles for the ORO provide direction and control to that part of the overall response effort for which they are responsible.

Extent-of-Play

Direction and control of emergency operations will be demonstrated in accordance with the exercise scenario, the Ashtabula County Radiological Emergency Response Plan, Agency SOG and as appropriate for out-of- sequence field demonstrations.

Criterion 1.d.1: At least two communication systems are available, at least one operates properly, and communication links are established with appropriate locations. Communications capabilities are managed in support of emergency operations.

Extent-of-Play

Primary (dedicated phone lines and commercial telephone) and secondary (radio/pagers/cell phones) means of communications will be demonstrated by interview at the EOC and as appropriate for out-of-sequence field demonstrations. Controllers will drive field play.

Full field notification utilizing primary means of communication will be completed one time only from the EOC, at the Site Area Emergency classification.

Criterion 1.e.1: Equipment, maps, displays, monitoring instruments, dosimetry, potassium iodide (KI) and other supplies are sufficient to support emergency operations.

Extent-of-Play

The EOC will demonstrate the use of equipment, maps and displays to support emergency operations.

In addition to the KI that the local health department made available to the general public to pick up, there is a quantity stockpiled at both the EOC and the Health District that would be transported to the reception centers and distributed by the local health department, as requested.

Emergency Worker KI has an expiration date of 12/31/2019; the public KI has an expiration date of 4/30/2020.

EVALUATION AREA 2 – PROTECTIVE ACTION DECISION MAKING

Criterion 2.a.1: OROs use a decision-making process, considering relevant factors and appropriate coordination, to ensure that an exposure control system, including the use of KI, is in place for emergency workers, including provisions to authorize radiation exposure in excess of administrative limits or protective action guides.

Extent-of-Play

Ashtabula County relies on the Ohio Department of Health (ODH) for the recommendation to take KI. For out-of-sequence field agency demonstrations, this will be demonstrated by interview with exercise participants or by Controller inject, if necessary.

Criterion 2.b.1: Appropriate protective action recommendations (PARS) are based on available information on plant conditions, field monitoring data, and licensee and ORO dose projections, as well as knowledge of on-site and offsite environmental conditions.

Extent-of-Play

N/A – Ashtabula County relies on the State of Ohio.

Criterion 2.b.2: A decision-making process involving consideration of appropriate factors and necessary coordination is used to make precautionary and/or protective action decisions (PADs) for the general public (including the recommendation for the use of KI, if ORO policy).

Extent-of-Play

The Ashtabula County EOC Executive Group will demonstrate this criterion in coordination with Lake and Geauga counties' Executive Groups and the State of Ohio.

The Director, or designee, of the Ohio Department of Health (ODH) makes the decision for the general public and emergency workers to take KI. The ODH through the local health department makes KI available to the general public, by pre-distribution and by supplies available for distribution at the time of the emergency at reception centers/care centers.

Criterion 2.c.1: Precautionary and/or protective action decisions are made, as appropriate, for groups or persons with disabilities and access/functional needs.

Extent-of-Play

The Ashtabula County EOC Executive Group will demonstrate this criterion in coordination with Lake and Geauga counties' Executive Groups. Typically, schools relocate at Site Area Emergency per procedures. If not relocated prior to General Emergency, schools follow the protective action decisions for the general public; they are not considered a special population group.

Criterion 2.d.1: Radiological consequences for the ingestion pathway are assessed and appropriate protective action decisions are made based on the ORO's planning criteria.

Extent-of-Play

N/A – Ashtabula County relies on the State of Ohio.

Criterion 2.e.1: Timely post-plume phase relocation, reentry, and return decisions are made and coordinated as appropriate, based on assessments of the radiological conditions and criteria in the ORO's plan and/or procedures.

Extent-of-Play

N/S - This Criterion will not be demonstrated.

EVALUATION AREA 3 – PROTECTIVE ACTION IMPLEMENTATION

Criterion 3.a.1: The OROs issue appropriate dosimetry, KI, and procedures, and manage radiological exposure to emergency workers in accordance with the plans/procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart. OROs maintain appropriate record-keeping of the administration of KI to emergency workers.

Extent-of-Play

The Ashtabula County EOC Radiological Officer will demonstrate radiation exposure control capabilities. Dosimetry and exposure control procedures will be demonstrated by field agencies during out-of-sequence exercise activities.

Field activity participants:

Dosimetry briefing:

Geneva-on-the-Lake Fire Department – Backup Route Alerting

Interview & Dosimetry Briefing

Geneva-on-the-Lake Police Department – Traffic/Access Control

Criterion 3.b.1: KI and appropriate instructions are available if a decision to recommend use of KI is made. Appropriate record-keeping of the administration of KI for institutionalized individuals is maintained.

Extent-of-Play

The Ohio Department of Health (ODH) will make recommendations regarding the use of KI. Ashtabula County's preparedness measures for KI include pre-distribution to emergency response agencies and the general public, if they chose to pick it up. At the time of the emergency, the agencies distribute the dosimetry and KI to the emergency workers.

If the ODH recommendation for use of KI excludes the portion of the EPZ that is in Ashtabula County, demonstration of this criterion will be facilitated by discussion with the Ashtabula County Radiological Officer at the EOC. For field agency demonstrations, KI procedures will be demonstrated by interview with exercise participants or by Controller inject, if necessary.

Dosimetry and KI have been pre-distributed to Offsite Response Organizations (OROs); the monitoring kits and dosimetry are exchanged annually by the State of Ohio. Supporting documentation is included in the Annual Letter of Certification.

Extent-of-Play

Interview the EOC Ashtabula County Health Department representative at the EOC during the exercise regarding the distribution of KI for the public at the reception center.

Criterion 3.c.1: Precautionary and/or protective action decisions are implemented for persons with disabilities and access/ functional needs other than schools within areas subject to protective actions.

Extent-of-Play

Notification to individuals with special needs within the Ashtabula County portion of the EPZ will be simulated. The Ashtabula County EMA maintains a list of special needs organizations within the Ashtabula County portion of the EPZ. The EOC Job and Family Services representative will coordinate special needs notification activities and, upon request, will present the list for review by the FEMA Evaluator.

At least 2 transportation providers, which in Ashtabula County are school districts, will be contacted to ensure availability of buses and drivers.

Criterion 3.c.2: OROs/School officials implement precautionary and/or protective actions for schools.

Extent-of-Play

N/S - This Criterion will not be demonstrated. Geneva School District, the only school district in the portion of the EPZ that is in Ashtabula County, successfully demonstrated this Criterion during the 2014 Exercise.

Criterion 3.d.1: Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access control personnel.

Extent-of-Play

A representative of the police department will demonstrate Traffic and Access Control out-of-sequence, by interview at the police station.

Notification of rail, water and air traffic is a State function.

Field activity participants:

Geneva-on-the-Lake Police Department

Criterion 3.d.2: Impediments to evacuation are identified and resolved.

Extent-of-Play

Ashtabula County EOC will demonstrate the capability to identify and take the appropriate actions in dealing with impediments to evacuation. Actual resources will not be utilized. If an impediment cannot be removed in a timely manner, the decision process to re-route traffic will be discussed and implemented by the appropriate EOC Staff.

Criterion 3.e.1: The ORO demonstrates the availability and appropriate use of adequate information regarding water, food supplies, milk and agricultural production within the ingestion exposure pathway emergency planning zone for implementation of protective actions.

Extent-of-Play

N/A – Ashtabula County relies on the State of Ohio.

Criterion 3.e.2: Appropriate measures, strategies and pre-printed instructional material are developed for implementing protective action decisions for contaminated water, food products, milk and agricultural production.

Extent-of-Play

N/A – Ashtabula County relies on the State of Ohio.

Criterion 3.f.1: Decisions regarding controlled reentry, relocation, and return of individuals during the post-plume phase are coordinated with appropriate organizations and implemented.

Extent-of-Play

N/S - This Criterion will not be demonstrated.

EVALUATION AREA 4 – FIELD MEASUREMENT AND ANALYSIS

Criterion 4.a.1: (RESERVED)

Criterion 4.a.2: Field teams (2 or more) are managed to obtain sufficient information to help characterize the release and to control radiation exposure.

Extent-of-Play

N/A – Ashtabula County does not demonstrate this criterion.

Criterion 4.a.3: Ambient radiation measurements are made and recorded at appropriate locations, and radioiodine and particulate samples are collected. Teams will move to an appropriate low background location to determine whether any significant (as specified in the plan and/or procedures) amount of radioactivity has been collected on the sampling media.

Extent-of-Play

N/A – Ashtabula County does not demonstrate this criterion.

Criterion 4.b.1: The field teams (2 or more) demonstrate the capability to make appropriate measurements and to collect appropriate samples (e.g., food crops, milk, water, vegetation, and soil) to support adequate assessments and protective action decision making. .

Extent-of-Play

N/A - Ashtabula County does not demonstrate this criterion.

Criterion 4.c.1: The laboratory is capable of performing required radiological analyses to support protective action decisions.

Extent-of-Play

N/A – Ashtabula County does not demonstrate this criterion.

EVALUATION AREA 5 – EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

Criterion 5.a.1: Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. The initial instructional message to the public must include as a minimum the elements required by current REP guidance.

Extent-of-Play

Upon a protective action decision (PAD) by the combined Executive Groups of Ashtabula, Lake and Geauga counties, the Lake County EOC Staff will prepare the appropriate Emergency Alert System (EAS) message and simulate sounding the sirens and sending the message over the EAS

system. A quiet siren test will be demonstrated by the Lake County EOC in lieu of an actual siren sounding.

No siren activation will be performed by Ashtabula County.

Simulation of sending the EAS message(s) will be conducted as follows:

The procedure for the EAS encoder will be followed to deliver the message to WTAM, the Local Primary Station, with the exception that the telephone number to the station will not be dialed. By not connecting to WTAM, there is no possibility of accidentally broadcasting the message over one or more of the participating EAS stations.

The “send” button on the Lake County EAS encoder will be depressed, and this action will activate the outgoing alert light and playback of the recorded message. Also, a data sheet will automatically be printed by the encoder and the time recorded on the data sheet. Ashtabula and Geauga counties have EAS equipment (encoder) and could provide this function if necessary.

Lake County will fax or email a copy of the EAS message(s) to the Joint Information Center (JIC) where Public Information Officers (PIOs) may distribute hard copies to the news media representatives and may, if time and circumstances permit, make an announcement regarding the message. Otherwise, the EAS message can be announced at the next scheduled press briefing or in response to news media inquiries about the PAD message.

In delivering information about the EAS message just released, the counties’ PIOs may indicate that a corresponding Special News Bulletin (SNB) will be issued soon. Lake County will also fax or email a copy of the EAS message to Ashtabula and Geauga counties’ EOC’s.

Criterion 5.a.2: (RESERVED)

Criterion 5.a.3: Backup alert and notification of the public is completed within a reasonable time following the detection by the ORO of a failure of the primary alert and notification system.

Extent-of-Play

Geneva-on-the-Lake Fire Department will demonstrate back-up route alerting as an out-of-sequence, pre-positioned field activity. One pre-determined siren located in the fire department’s jurisdiction will be out-of-service (simulated) and back-up route alerting will be conducted in the siren coverage area. Use of the mobile PA system will be simulated during the demonstration; an audible PA test will be conducted prior to departure. The demonstration will be initiated by the exercise Controller.

Criterion 5.a.4: Activities associated with FEMA-approved exception areas (where applicable) are completed within 45 minutes following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation.

Extent-of-Play

N/A – There are no exception areas in the PNPP siren coverage area.

Criterion 5.b.1: OROs provide accurate subsequent emergency information and instructions to the public and the news media in a timely manner.

Extent-of-Play

Based upon the combined PAD(s) of the Executive Groups of Ashtabula, Geauga and Lake Counties, the Lake County EOC Staff will prepare and issue the appropriate EAS message(s) and the corresponding Special News Bulletin(s) (SNB). SNB's give the same message as their corresponding EAS message except SNB's provide greater detail.

Lake County will FAX or email the SNB(s) to the Joint Information Center (JIC) where one of the counties' PIOs will represent the three counties by directly proceeding to the briefing room and reading the contents of the message to the assembly of news media representatives and answering any questions pertaining to the message.

This briefing should begin in a timely manner after transmission of the EAS message from the Lake County EOC to the Local Primary EAS Station. Hard copies of the SNB(s) will be distributed to the news media representatives.

Ashtabula, Geauga and Lake Counties will also coordinate release of other informational and instructional message, as necessary. Such messages may include Special Information Bulletins (SIB), which are a third category of prepared messages contained in the counties' "SOG for EAS Messages, Special News Bulletins, and Special Information Bulletins pertaining to the Perry Nuclear Power Plant." These SIB's are considered routine, meaning that they are to be delivered by one of the counties' PIOs at the next scheduled press briefing.

Public Inquiry Workers at the EOC will answer calls from the public. At least two trends will be demonstrated.

EVALUATION AREA 6 – SUPPORT OPERATION/FACILITIES

Criterion 6.a.1: The reception center facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees of emergency workers.

Extent-of-Play

N/S - This Criterion will not be demonstrated.

Criterion 6.b.1: The facility/ORO has adequate procedures and resources to accomplish monitoring and decontamination of emergency workers and their equipment and vehicles.

Extent-of-Play

N/S - This Criterion will not be demonstrated.

Criterion 6.c.1: Managers of congregate care facilities demonstrate that the centers have resources to provide services and accommodations consistent with American Red Cross planning guidelines. Managers demonstrate the procedures to assure that evacuees have been monitored for contamination and have been decontaminated as appropriate prior to entering congregate care facilities.

Extent-of-Play

The American Red Cross will demonstrate this Criterion at Edgewood High School Care Center.

Criterion 6.d.1: The facility/ORO has the appropriate space, adequate resources, and trained personnel to provide transport, monitoring, decontamination, and medical services to contaminated injured individuals.

Extent-of-Play

N/S - This Criterion will not be demonstrated.

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**PERRY NUCLEAR POWER PLANT
RADIOLOGICAL EMERGENCY RESPONSE
FULL PARTICIPATION
PLUME EXPOSURE PATHWAY EXERCISE
2018**



**GEAUGA COUNTY, OHIO
EXTENT-OF-PLAY AGREEMENT**

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The EOC portion of the exercise will take place on September 18, 2018.

Criteria that can be re-demonstrated immediately for credit, by a decision of the Evaluator, include the following: 3.a.1, 3.b.1, 3.c.1., 3.c.2, 3.d.1, 6.a.1, 6.b.1, 6.c.1 and 6.d.1.

Criteria that may be re-demonstrated, as approved on a case-by-case basis by the DHS/FEMA Region V Regional Assistance Committee Chairman, include the following: 2.a.1, 2.b.1, 2.b.2, 3.d.2, 5.a.1 and 5.b.1.

EVALUATION AREA 1 – EMERGENCY OPERATIONS MANAGEMENT

Criterion 1.a.1: OROs use effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner.

Extent-of-Play

Geauga County EOC Staff will mobilize upon notification from the Geauga County Sheriff's Dispatch Center, which is the 24-hour notification point and receives the call via a dedicated line from the Perry Plant. Full field notification utilizing primary means of communication will be completed one time only from the EOC, at the Site Area Emergency classification.

Field agency demonstrations will be conducted out-of-sequence and participants will be pre-positioned.

Field activity participants

Geauga County Sheriff's Office – Traffic/Access Control by interview at the EOC during the Exercise

Thompson Volunteer Fire Department – Backup Route Alerting

Criterion 1.b.1: Facilities are sufficient to support the emergency response.

Extent-of-Play

N/S - This Criterion will not be demonstrated.

Criterion 1.c.1: Key personnel with leadership roles for the ORO provide direction and control to that part of the overall response effort for which they are responsible.

Extent-of-Play

Direction and control of emergency operations will be demonstrated in accordance with the exercise scenario, the Geauga County Radiological Emergency Response Plan, Agency SOG and as appropriate for out-of- sequence field demonstrations.

Criterion 1.d.1: At least two communication systems are available, at least one operates properly, and communication links are established with appropriate locations. Communications capabilities are managed in support of emergency operations.

Extent-of-Play

Primary (dedicated phone lines and commercial telephone) and secondary (radio/pagers/cell phones) means of communications will be demonstrated by interview at the EOC and as appropriate for out-of-sequence field demonstrations. Controllers will drive field play.

Full field notification utilizing primary means of communication will be completed one time only from the EOC, at the Site Area Emergency classification.

Criterion 1.e.1: Equipment, maps, displays, monitoring instruments, dosimetry, potassium iodide (KI) and other supplies are sufficient to support emergency operations.

Extent-of-Play

The EOC will demonstrate the use of equipment, maps and displays to support emergency operations.

In addition to the KI that the local health department made available to the general public to pick up, there is a quantity stockpiled at the Health District that would be transported to the care centers and distributed by the local health department, as requested.

Emergency Worker KI has an expiration date of 12/31/2019; the public KI has an expiration date of 4/30/2020.

EVALUATION AREA 2 – PROTECTIVE ACTION DECISION MAKING

Criterion 2.a.1: OROs use a decision-making process, considering relevant factors and appropriate coordination, to ensure that an exposure control system, including the use of KI, is in place for emergency workers, including provisions to authorize radiation exposure in excess of administrative limits or protective action guides.

Extent-of-Play

Geauga County relies on the Ohio Department of Health (ODH) for the recommendation to take KI. For out-of-sequence field agency demonstrations, this will be demonstrated by interview with exercise participants or by Controller inject, if necessary.

Criterion 2.b.1: Appropriate protective action recommendations (PARS) are based on available information on plant conditions, field monitoring data, and licensee and ORO dose projections, as well as knowledge of on-site and offsite environmental conditions.

Extent-of-Play

N/A – Geauga County relies on the State of Ohio.

Criterion 2.b.2: A decision-making process involving consideration of appropriate factors and necessary coordination is used to make protective action decisions (PADs) for the general public (including the recommendation for the use of KI, if ORO policy).

Extent-of-Play

The Geauga County EOC Executive Group will demonstrate this criterion in coordination with Lake and Ashtabula counties' Executive Groups and the State of Ohio.

The Director, or designee, of the Ohio Department of Health (ODH) makes the decision for the general public and emergency workers to take KI. The ODH through the local health department makes KI available to the general public, by pre-distribution and by supplies available for distribution at the time of the emergency at care centers.

Criterion 2.c.1: Precautionary and/or protective action decisions are made, as appropriate, for groups or persons with disabilities and access/functional needs.

Extent-of-Play

The Geauga County EOC Executive Group will demonstrate this criterion in coordination with Lake and Ashtabula counties' Executive Groups. Typically, schools relocate at Site Area Emergency per procedures. If not relocated prior to General Emergency, schools follow the protective action decisions for the general public; they are not considered a special population group.

Criterion 2.d.1: Radiological consequences for the ingestion pathway are assessed and appropriate protective action decisions are made based on the ORO planning criteria.

Extent-of-Play

N/A – Geauga County relies on the State of Ohio.

Criterion 2.e.1: Timely post-plume phase relocation, reentry, and return decisions are made and coordinated as appropriate, based on assessments of the radiological conditions and criteria in the ORO's plan and/or procedures.

Extent-of-Play

N/S - This Criterion will not be demonstrated.

EVALUATION AREA 3 – PROTECTIVE ACTION IMPLEMENTATION

Criterion 3.a.1: The OROs issue appropriate dosimetry, KI, and procedures, and manage radiological exposure to emergency workers in accordance with the plans/procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart. OROs maintain appropriate record-keeping of the administration of KI to emergency workers.

Extent-of-Play

The Geauga County EOC Radiological Officer will demonstrate radiation exposure control capabilities. Dosimetry and exposure control procedures will be demonstrated by field agencies during out-of-sequence exercise activities.

Interview & dosimetry briefing:

Gauga County Sheriff's Office – at the EOC during the Exercise

Field Activity Participants

Dosimetry Briefing

Thompson Volunteer Fire Department – Backup Route Alerting

Criterion 3.b.1: KI and appropriate instructions are available if a decision to recommend use of KI is made. Appropriate record-keeping of the administration of KI for institutionalized individuals is maintained.

Extent-of-Play

The Ohio Department of Health (ODH) will make recommendations regarding the use of KI. Geauga County's preparedness measures for KI include pre-distribution to emergency response agencies and to the general public, if they chose to pick it up at designated centers. At the time of the emergency, the agencies distribute the dosimetry and KI to the emergency workers. If the ODH recommendation for use of KI excludes the portion of the EPZ that is in Geauga County, demonstration of this criterion may be facilitated by discussion with the Geauga County Radiological Officer at the EOC. For field agency demonstrations, KI procedures will be demonstrated by interview with exercise participants or by Controller inject, if necessary.

Dosimetry and KI have been pre-distributed to Offsite Response Organizations (OROs); the monitoring kits and dosimetry are exchanged annually by the State of Ohio. Supporting documentation is included in the Annual Letter of Certification.

Extent-of-Play

Interview the Geauga County Health District representative at the EOC during the exercise regarding the distribution of KI for the public at the care center.

Criterion 3.c.1: Precautionary and/or protective action decisions are implemented for persons with disabilities and access/ functional needs other than schools within areas subject to protective actions.

Extent-of-Play

Notification to individuals with special needs within the Geauga County portion of the EPZ will be simulated. A list of special needs residents within the Geauga County portion of the EPZ is maintained by the Geauga County Department of Emergency Services (DES). The Fire/EMS Coordinator at the EOC will coordinate special needs notification activities and, upon request, will present the confidential list for review by the FEMA Evaluator.

There are no day cares, nursing homes, hospitals or risk schools in the Geauga County portion of the EPZ.

Criterion 3.c.2: OROs/School officials implement precautionary and/or protective actions for schools.

Extent-of-Play

N/A – There are no risk schools in Geauga County.

Criterion 3.d.1: Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access control personnel.

Extent-of-Play

The Geauga County Sheriff's Office representative in the EOC will demonstrate Traffic and Access Control by interview at the Geauga County EOC during the exercise.

Notification of rail, water and air traffic is a State function.

Criterion 3.d.2: Impediments to evacuation are identified and resolved.

Extent-of-Play

Geauga County EOC will demonstrate the capability to identify and take the appropriate actions in dealing with impediments to evacuation. Actual resources will not be utilized. If an impediment cannot be removed in a timely manner, the decision to reroute traffic will be discussed and implemented by the appropriate EOC staff.

Criterion 3.e.1: The ORO demonstrates the availability and appropriate use of adequate information regarding water, food supplies, milk and agricultural production within the ingestion exposure pathway emergency planning zone for implementation of protective actions.

Extent-of-Play

N/A – Geauga County relies on the State of Ohio.

Criterion 3.e.2: Appropriate measures, strategies and pre-printed instructional material are developed for implementing protective action decisions for contaminated water, food products, milk and agricultural production.

Extent-of-Play

N/A – Geauga County relies on the State of Ohio.

Criterion 3.f.1: Decisions regarding controlled reentry, relocation, and return of individuals during the post-plume phase are coordinated with appropriate organizations and implemented.

Extent-of-Play

N/S - This Criterion will not be demonstrated.

EVALUATION AREA 4 – FIELD MEASUREMENT AND ANALYSIS

Criterion 4.a.1: (RESERVED)

Criterion 4.a.2: Field teams (2 or more) are managed to obtain sufficient information to help characterize the release and to control radiation exposure.

Extent-of-Play

N/A – Geauga County does not demonstrate this criterion.

Criterion 4.a.3: Ambient radiation measurements are made and recorded at appropriate locations, and radioiodine and particulate samples are collected. Teams will move to an appropriate low background location to determine whether any significant (as specified in the plan and/or procedures) amount of radioactivity has been collected on the sampling media.

Extent-of-Play

N/A – Geauga County does not demonstrate this criterion.

Criterion 4.b.1: The field teams (2 or more) demonstrate the capability to make appropriate measurements and to collect appropriate samples (e.g., food crops, milk, water, vegetation, and soil) to support adequate assessments and protective action decision making.

Extent-of-Play

N/A – Geauga County does not demonstrate this criterion.

Criterion 4.c.1: The laboratory is capable of performing required radiological analyses to support protective action decisions.

Extent-of-Play

N/A – Geauga County does not demonstrate this criterion.

EVALUATION AREA 5 – EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

Criterion 5.a.1: Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. The initial instructional message to the public must include as a minimum the elements required by current REP guidance.

Extent-of-Play

Upon a protective action decision (PAD) by the combined Executive Groups of Ashtabula, Lake and Geauga counties, the Lake County EOC Staff will prepare the appropriate Emergency Alert System (EAS) message and simulate sounding the sirens and sending the message over the EAS system. A quiet siren test will be demonstrated by the Lake County EOC in lieu of an actual siren sounding.

No siren activation will be performed by Geauga County.

Simulation of sending the EAS message(s) will be conducted as follows:

The procedure for the EAS encoder will be followed to deliver the message to WTAM, the Local Primary Station, with the exception that the telephone number to the station will not be dialed. By not connecting to WTAM, there is no possibility of accidentally broadcasting the message over one or more of the participating EAS stations.

Criterion 5.a.2: (RESERVED)

Criterion 5.a.3: Backup alert and notification of the public is completed within a reasonable time following the detection by the ORO of a failure of the primary alert and notification system.

Extent-of-Play

Thompson Volunteer Fire Department, the only Geauga County department with this responsibility, will demonstrate back-up route alerting as an out-of-sequence, pre-positioned field activity. One pre-determined siren located in the fire department's jurisdiction will be out-of-service (simulated) and back-up route alerting will be conducted in the siren coverage area. Use of the mobile PA system will be simulated during the demonstration; an audible PA test will be conducted prior to departure. The demonstration will be initiated by the exercise Controller.

Criterion 5.a.4: Activities associated with FEMA-approved exception areas (where applicable) are completed within 45 minutes following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation.

Extent-of-Play

N/A – There are no exception areas in the PNPP siren coverage area.

Criterion 5.b.1: OROs provide accurate subsequent emergency information and instructions to the public and the news media in a timely manner.

Extent-of-Play

Based upon the combined PAD(s) of the Executive Groups of Ashtabula, Geauga and Lake Counties, the Lake County EOC Staff will prepare and issue the appropriate EAS message(s) and the corresponding Special News Bulletin(s) (SNB). SNB's give the same message as their corresponding EAS message except SNB's provide greater detail. Lake County will fax or email the SNB(s) to the Joint Information Center (JIC) where one of the counties' PIOs will represent the three counties by directly proceeding to the briefing room and reading the contents of the message to the assembly of news media representatives and answering any questions pertaining to the message. This briefing should begin in a timely manner after transmission of the EAS message from the Lake County EOC to the Local Primary EAS Station. Hard copies of the SNB(s) will be distributed to the news media representatives.

Ashtabula, Geauga and Lake Counties will also coordinate release of other informational and instructional message as necessary. Such messages may include Special Information Bulletins (SIB), which are a third category of prepared messages contained in the counties' "SOG for EAS Messages, Special News Bulletins, and Special Information Bulletins pertaining to the Perry Nuclear Power Plant." These SIB's are considered routine, meaning that they are to be delivered by one of the counties' PIOs at the next scheduled press briefing.

Public Inquiry Workers at the EOC will answer calls from the public. At least two trends will be demonstrated.

EVALUATION AREA 6 – SUPPORT OPERATION/FACILITIES

Criterion 6.a.1: The reception center facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees of emergency workers.

Extent-of-Play

N/S - This Criterion will not be demonstrated.

Criterion 6.b.1: The facility/ORO has adequate procedures and resources to accomplish monitoring and decontamination of emergency workers and their equipment and vehicles.

Extent-of-Play

N/S - This Criterion will not be demonstrated.

Criterion 6.c.1: Managers of congregate care facilities demonstrate that the centers have resources to provide services and accommodations consistent with American Red Cross planning guidelines. Managers demonstrate the procedures to assure that evacuees have been monitored for contamination and have been decontaminated as appropriate prior to entering congregate care facilities.

Extent-of-Play

The American Red Cross will demonstrate this Criterion at Edgewood High School Care Center.

Criterion 6.d.1: The facility/ORO has the appropriate space, adequate resources, and trained personnel to provide transport, monitoring, decontamination, and medical services to contaminated injured individuals.

Extent-of-Play

N/S - This Criterion will not be demonstrated.

APPENDIX F: Onsite/Offsite Scenario Timeline

Initial Environmental Conditions:

- Tuesday dayshift,
- Overcast.
- Wind Speed is 5 mph
- Wind Direction is from 310 degrees
- Stability Class is 'D'.
- Schools are in session

Plant Conditions:

- Plant power 100%
- PSA Risk **GREEN**
- Power ascension has been completed following a weekend down power
- Provide today's integrated on call report

Equipment Issues: None


Executive Summary:

This drill will be conducted using an operations crew in the Perry Control Room Simulator which will provide "live" simulator data to drill participants. Exact event times provided in this timeline may vary based on crew response or Controller direction.



Perry Nuclear Power Station 2018 Evaluated Exercise – On-Site / Offsite Timeline

Approx-imate Time	ON-SITE DRILL ACTIVITY and CONTROLLERS NOTES	ANTICIPATED STATE & COUNTY ACTIONS	
Pre Drill	Notify NRC HOO of Drill Commencement.		
0645	Crew Brief		
	Operations briefing in TEC for Simulator and plant operations crew. CAUTION: The Drill will be conducted using an Operations crew in the Simulator providing “live” simulator data to Drill participants, exact event times provided in this Timeline may vary dependent on crew response.		
	SIMULATOR CONTROLLER NOTE: <i>The actual operating shift personnel will not be participating in the drill due to normal plant operations and safety concerns. An Operations crew will be present in the Simulator Control Room to participate. Additional Operations personnel will be present to perform the activities necessary to respond to the simulated plant conditions and will be briefed on the Initial Conditions at this time.</i>		


Perry Nuclear Power Station 2018 Evaluated Exercise – On-Site / Offsite Timeline

Approx-imate Time	ON-SITE DRILL ACTIVITY and CONTROLLERS NOTES	ANTICIPATED STATE & COUNTY ACTIONS	
	Initial Conditions: <ul style="list-style-type: none">Wednesday - DayshiftMode 1, 100% powerPSA Risk is GreenAll ECCS and Diesels are operableWind Direction from 310 degreesWind Speed is 5 mphStability class is DSchools are in session		
CIS-01	Simulator Lead Controller: provide cue information sheet to Shift Manager. <i>Controllers verify plant announcement was heard on site.</i>		
0730	Simulator Shift Manager: Announce Drill Commencement.		
0730	StartEx		
 MS-01 CIS-02X	SIMULATOR DRIVER INSERT EVENT 1: <i>Mini Scenario addresses the Control Rod Drift Event Notes:</i> 1. <i>If AFDL takes control, “AFDL IN CONTROL” will be annunciated on panel H13-P680.</i> 2. <i>In the event the crew misdiagnoses the event and locks-up the Flow Control Valves (FCVs), the pushbutton is failed. The Controller should then provide CIS-02X which directs the crew not to scram or shut down the Hydraulic Control Units (HCUs) from panel P614.</i>	<ul style="list-style-type: none">State EOCs begin to ActivateCounty EOCs begin to ActivateCall down notifications to EOC (simulated)Establish communication with Beaver/Hancock CountiesActivate Public Inquiry Line	<ul style="list-style-type: none">Dose Assessment is activatedState EOC may be activatedJIC may be activatedFMTs may be mobilized to the RIMCIf not already completed, Resident Analysts mobilize to County EOC and Utility EOF


Perry Nuclear Power Station 2018 Evaluated Exercise – On-Site / Offsite Timeline

Approx- imate Time	ON-SITE DRILL ACTIVITY and CONTROLLERS NOTES	ANTICIPATED STATE & COUNTY ACTIONS	
0735	<ul style="list-style-type: none"> Control rod 22-47 drifts out of the core from position 10. First indication is a Rod Drift alarm. Power rises to 105%. Automatic Flow Demand Limiter (AFDL) may take control. The crew is expected to enter ONI-C51, Unplanned Change in Reactor Power or Reactivity, and lower power with flow. 	Through Coordination with State Representatives in the EOF or plant liaison - These will <u>not</u> be “Significant Impediments to Evacuation” for PAR considerations. These impediments will not affect FMT movement or staffing of Emergency Facilities.	
 	<p>SIMULATOR DRIVER INSERT EVENT 2 THIS IS THE INDICATOR FOR AN UNUSUAL EVENT (EAL SU5.1, RCS unidentified or pressure boundary leakage > 10 gpm for ≥ 15 min. <i>T-Zero occurs when the Shift Manager and crew determine that the 15 minute time limit for RCS leakage > 10 gpm has been exceeded, or will likely be exceeded.</i></p> <p>SIMULATOR CONTROLLER/DRIVER <i>Note: Drywell pressure should not be allowed to exceed 0.7 psig until recirc. piping failure event. At 0.7 psig, modify leak rate from 3% to 1% (Malfunction THO2A)</i></p>		


Perry Nuclear Power Station 2018 Evaluated Exercise – On-Site / Offsite Timeline

Approximate Time	ON-SITE DRILL ACTIVITY and CONTROLLERS NOTES	ANTICIPATED STATE & COUNTY ACTIONS	
0743	<ul style="list-style-type: none"> Control Rod drift/power excursion results in a small break LOCA in the Drywell. Drywell pressure, temperature and sump level all increase. Drywell temperature peaks at approximately 144 °F (less than EOP-02 entry threshold). Drywell unidentified leakage will rise above 10 gpm. 		
7:58	PNPP Declares an Unusual Event based on RCS unidentified or pressure boundary leakage greater than 10 gallons per minute for ≥ 15 minutes.		
0758	An UNUSUAL EVENT (UE) is declared based on EAL SU5.1 , RCS unidentified or pressure boundary leakage >10 gpm for ≥15 min. INF Data: <input checked="" type="checkbox"/> 1. Perry Nuclear Power Plant <input checked="" type="checkbox"/> 2. This is a Drill <input checked="" type="checkbox"/> 3. a. Unusual Event declared based on EAL SU5.1 <input checked="" type="checkbox"/> 4. c. No release in progress as a result of this event. <input checked="" type="checkbox"/> 5. c. (PARs): None		
	<i>SIMULATOR CONTROLLER:</i> <i>Notifications are considered <u>initiated</u> when the first offsite agency has been contacted to transmit the initial notification. (i.e. first agency answers the conference call).</i>		

Perry Nuclear Power Station 2018 Evaluated Exercise – On-Site / Offsite Timeline

Approx-imate Time	ON-SITE DRILL ACTIVITY and CONTROLLERS NOTES	ANTICIPATED STATE & COUNTY ACTIONS	
8:13	Offsite response agencies notified of UNUSUAL EVENT declaration.		
0813	NOTIFICATION TO OFFSITE AGENCIES (UE)	OSHP Hub Dispatch [State of Ohio Initial Notification Point] receives Initial Notification.	County Dispatch Centers receive notification.
CIS-03X	<i>The Controller should use the contingency card provided if this action has not been completed. However, if discussions are underway which the Controller feels will lead to the declaration, this CIS may be held for an additional time period.</i>	State INP notifies the Radiological Branch. The Radiological Branch has a conference call with the Watch Officer and the Executives. Watch Officer makes assigned notifications.	County Dispatch Centers notify EMA Directors who specify the level of further notifications.
0813	An UNUSUAL EVENT (UE) based on EAL SU5.1, RCS unidentified or pressure boundary leakage >10 gpm for ≥15 min. should have been declared.		Counties' dispatch makes notification as directed.
0858	NRC NOTIFICATION (Unusual Event)		
	SIMULATOR DRIVER INSERT EVENT 3		
0902	<ul style="list-style-type: none">Turbine Control Valve #4 begins to oscillate. Reactor power and pressure oscillate.Oscillations worsen rapidly with pressure swinging from 1022 to 1032 psig. Power swings +/- 5% which continues to amplify.		


Perry Nuclear Power Station 2018 Evaluated Exercise – On-Site / Offsite Timeline

Approximate Time	ON-SITE DRILL ACTIVITY and CONTROLLERS NOTES	ANTICIPATED STATE & COUNTY ACTIONS	
	<ul style="list-style-type: none"> Turbine Control Valve #4 begins to oscillate. Reactor power and pressure oscillate. Oscillations worsen rapidly with pressure swinging from 1022 to 1032 psig. Power swings +/- 5% which continues to amplify. LPRM upscale, APRM Rod Block, AFDL in Control, CV Amp in Control and Reactor Pressure High alarms are received. Power oscillations will require a manual scram per ONI-C51. If the crew does not take manual action, an automatic scram will occur on Hi Reactor Pressure or APRM Hi Flux. 		
 MS-02	<p>THIS IS THE INDICATOR FOR AN ALERT (EAL SA6.1)</p> <p><i>T-Zero occurs when the automatic scram is unsuccessful AND manual scram actions taken at the reactor control console (Manual PBs, Mode Switch, ARI) are not successful in shutting down the reactor as indicated by reactor power \geq 4%.</i></p> <p><i>Note: The crew may elect to depressurize the RPV once all rods are in.</i></p> <p><i>Mini Scenario addresses the ATWS/Failure to Scram.</i></p>		

Perry Nuclear Power Station 2018 Evaluated Exercise – On-Site / Offsite Timeline

Approx-imate Time	ON-SITE DRILL ACTIVITY and CONTROLLERS NOTES	ANTICIPATED STATE & COUNTY ACTIONS	
0907	<ul style="list-style-type: none"> Either a manual or automatic scram is initiated. Scram is NOT successful resulting in an ATWS with multiple control rods failing to insert. Subsequent manual actions taken at the reactor control console are NOT successful at lowering reactor power to <4%. Reactor power ~ 15%. EOP-SPI 1.2 and 1.3 actions will be successful inserting rods and lowering power to <4%. Feedwater is available for level control with Bypass valves controlling pressure. 		
9:22	PNPP Declares an ALERT based on manual scram not shutting down the reactor with subsequent actions NOT successful in shutting down the reactor as indicated by reactor power $\geq 4\%$.		
0922	An ALERT should be declared based on EAL SA6.1 , An automatic or manual scram fails to shut down the reactor AND Manual scram actions taken at the reactor control console (Manual PBs, Mode Switch, ARI) are not successful in shutting down the reactor as indicated by reactor power $\geq 4\%$. INF Data: <input checked="" type="checkbox"/> 1. Perry Nuclear Power Plant <input checked="" type="checkbox"/> 2. This is a Drill <input checked="" type="checkbox"/> 3. a. Alert declared based on EAL SA6.1 <input checked="" type="checkbox"/> 4. c. No release in progress as a result of this event. <input checked="" type="checkbox"/> 5. c. (PARs): None		



Perry Nuclear Power Station 2018 Evaluated Exercise – On-Site / Offsite Timeline

Approximate Time	ON-SITE DRILL ACTIVITY and CONTROLLERS NOTES	ANTICIPATED STATE & COUNTY ACTIONS	
	<i>SIMULATOR CONTROLLER:</i> <i>Notifications are considered <u>initiated</u> when the first offsite agency has been contacted to transmit the initial notification. (i.e. first agency answers the conference call)</i> <i>SIMULATOR DRIVER INSERT EVENT 5</i>		
9:37	Offsite response agencies notified of ALERT declaration.		
0937	NOTIFICATION TO OFFSITE AGENCIES (ALERT)	OSHP Hub Dispatch receives PNPP Alert Notification.	County Dispatch Centers receive Alert notification over the 5-WAY phone.
MS-03	<i>Note: There is no release in progress at this point as there is no increase above steady state values on any vent radiation monitor indication.</i> Mini Scenario addresses mechanical failure of AEGTS B Fan.	Dispatch notifies the Radiological Branch.	County Dispatch Centers call/notify their EMA Directors.
MS-04	Mini Scenario addresses the M51F090 inboard Drywell hydrogen purge line valve failing open.	The Radiological Branch has a conference call with the Watch Officer and the Executives.	EMA Directors advise Dispatch to make notification to OROs necessary based on the ALERT & EAL.
MS-05	Mini Scenario addresses the M51F110 outboard Drywell hydrogen purge line valve failing open.	Watch Officer makes assigned notifications.	Per procedures, select EOC Staff report to their respective EOCs and commence assigned duties.
MS-06	Mini Scenario addresses the failure of SRM A.	Executive Room (ER), Assessment, Dose Assessment and JIC are activated.	(L) Lake County will place a call to the Common Program Control Station and place them on stand-by.
MS-07	Mini Scenario addresses performing PASS sampling.	Dose Assessment takes over phones from Dispatch. Dose Assessment begins to monitor plant conditions and run dose projections.	(L) Two Lake County FMTs are assembled at the Lake County EOC and, when ready, may be dispatched to field locations.

Perry Nuclear Power Station 2018 Evaluated Exercise – On-Site / Offsite Timeline

Approximate Time	ON-SITE DRILL ACTIVITY and CONTROLLERS NOTES	ANTICIPATED STATE & COUNTY ACTIONS	
0952	<ul style="list-style-type: none"> Main Steam Line and Off Gas Pre-treatment radiation monitors begin to rise following the unsuccessful scram prompting ONI-J11-1, Gross Fuel Cladding Failure, entry. EOP-1A, Level Power Control, directs the crew to terminate and prevent ECCS by arming and depressing Div. 1 and Div. 2. This will cause AEGTS B Fan to attempt to start. The fan will subsequently trip on overcurrent due to a seized shaft. Upon Containment Isolation signal, M51F090 and M51F110 will begin to close then lose control power failing open. NS4 alarms and lights for the inboard and outboard Drywell purge line valves will indicate a failed Containment penetration. Source Range Monitor (SRM) A fails. ONI-J11-1 will prompt the crew to request a Reactor Coolant activity sample which must be drawn from PASS due to the pending MSIV isolation. 	<p>ER considers activating the SEOC.</p> <p>FMTs are put on stand-by or dispatched to staging area.</p> <p>News release is provided to public from Ohio EMA.</p> <p>Public Inquiry begins to field calls at the SEOC.</p>	<p>EMA Communicators assume control of the 5-WAY phone.</p> <p>If the JIC is activated, the counties may send their PIOs to commence public information duties there.</p>
	<i>Both alarms are additional ONI-J11-1 entry criteria. The 1D17- K612 alarm is also an additional Unusual Event entry under SU4.1.</i>		
0955	<ul style="list-style-type: none"> Off Gas Pre-Treatment recorder alarm is received. Pre-Treatment radiation monitor alarm 1D17-K612 is received. 		
1007	Technical Support Center is declared operational per EPI- A6.		
1007	Operations Support Center is declared operational per EPI-A7.		


Perry Nuclear Power Station 2018 Evaluated Exercise – On-Site / Offsite Timeline

Approximate Time	ON-SITE DRILL ACTIVITY and CONTROLLERS NOTES	ANTICIPATED STATE & COUNTY ACTIONS	
1007	Public Information Response Team is operational.		
CIS-05	<i>PIRT CONTROLLER</i> <i>Provide message to PIRT Manager. This CIS provides message directing the PIRT Manager to activate the JIC. The intent is to deliver this message when the PIRT is operational. It is not necessary to wait until the specified time if the PIRT is declared operational earlier than the listed time.</i>		
1009	PIRT Manager receives message from Site Vice President to activate JIC.		
1022	NRC NOTIFICATION (Alert)		
1022	ERDS verified in service by TSC staff.		
	<i>SIMULATOR DRIVER INSERT EVENT 6:</i>		
	THIS IS THE INDICATOR FOR A Site Area Emergency (EAL FS1.1). due to a loss of the Containment barrier (Table F-1, criteria E-1) and a loss of the RCS barrier (Table F-1, criteria D-1).		
	<i>T-Zero occurs when a direct downstream pathway from the reactor to the environment exists as indicated by the increasing Unit #1 Plant Vent radiation Monitor reading.</i>		

Perry Nuclear Power Station 2018 Evaluated Exercise – On-Site / Offsite Timeline

Approx- imate Time	ON-SITE DRILL ACTIVITY and CONTROLLERS NOTES	ANTICIPATED STATE & COUNTY ACTIONS	
MS-08	Mini Scenario addresses the Reactor Recirculation piping weld failure.		
1025	<ul style="list-style-type: none">A weld failure occurs on reactor recirculation piping resulting in a significant increase to the LOCA in the Drywell. Drywell pressure and temperature increase significantly which will provide a driving head for a release via the Drywell purge line.Unit #1 Plant Vent Radiation Monitor 1D17-K788 begins to increase.This constitutes a release pathway to the environment via the failed open Drywell Purge line valves (M51F090 and M51F110) through AEGTS “A” to the Unit #1 Plant Vent. <p>Release begins.</p>		
10:40	PNPP Declares a Site Area Emergency based on loss of RCS (> 1.68 psi Drywell pressure) and Containment due to UNISOLABLE direct downstream pathway to the environment.		
1040	A Site Area Emergency (EAL FS1.1) should be declared based on a loss of the Containment barrier (UNISOLABLE direct downstream pathway to the environment) and the previous loss of the RCS barrier.		
	TSC/SIMULATOR CONTROLLERS: The accountability message for site personnel is to be simulated. Do not allow the message to be played in the plant.		

Perry Nuclear Power Station 2018 Evaluated Exercise – On-Site / Offsite Timeline


Approximate Time	ON-SITE DRILL ACTIVITY and CONTROLLERS NOTES	ANTICIPATED STATE & COUNTY ACTIONS	
	<p>TSC/SIMULATOR CONTROLLERS:</p> <p><i>The accountability message for site personnel is to be simulated. Do not allow the message to be played in the plant.</i></p> <p>Accountability will be simulated for non-participants.</p> <p>INF Data:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 1. Perry Nuclear Power Plant <input checked="" type="checkbox"/> 2. This is a Drill <input checked="" type="checkbox"/> 3. a. Site Area Emergency declared based on EAL FS1.1 <input checked="" type="checkbox"/> 4. a. Non-routine release is in progress. <input checked="" type="checkbox"/> 5. c. (PARs): None 		
10:55	Offsite response agencies notified of Site Area Emergency declaration.		
1055	NOTIFICATION TO OFFSITE AGENCIES (Site Area Emergency)	State of Ohio receives notification of the SAE over the 5-WAY phone.	Counties receive notification of the SAE over the 5-WAY phone.
	<p>SIMULATOR CONTROLLER:</p> <p><i>Notifications are considered <u>initiated</u> when the first offsite agency has been contacted to transmit the initial notification. (i.e. first agency answers the conference call).</i></p>	<p>If not already completed, State EOC is activated.</p> <p>Additional OROs, contiguous governments, and 50-mile counties are notified by Watch Office / Assessment.</p>	<p>EOC Staff not yet in the EOC are notified and asked to report for duty.</p> <p>The counties' EOC Executive Groups ensure that a "State of Emergency" is declared.</p>
CIS-06X	<i>The Controller should use the contingency card provided if this action has not been completed. However, if discussions are underway which the Controller feels will lead to the declaration, this CIS may be held for an additional time period.</i>		

Perry Nuclear Power Station


2018 Evaluated Exercise – On-Site / Offsite Timeline

Approximate Time	ON-SITE DRILL ACTIVITY and CONTROLLERS NOTES	ANTICIPATED STATE & COUNTY ACTIONS	
1055	A Site Area Emergency (EAL FS1.1) should have been declared based on a loss of the Containment barrier (UNISOLABLE direct downstream pathway to the environment) and the previous loss of the RCS barrier.	<p>Governor considers and declares a state of emergency.</p> <p>Ag advisory issued placing livestock and poultry within 10-mile radius on stored feed and protected water.</p>	<p>Ashtabula, Geauga, and Lake counties each demonstrate actual notifications to their respective response agencies. NOTE: This is the only full notification demonstrated in the counties.</p>
CIS-07	<p><i>This CIS provides the results for initial accountability which will be simulated.</i></p> <p><i>40 Rem/hour Drywell dose rates are an additional Alert entry under EAL FA1.1 and should be included on Follow-up Notifications. This will also require the main Steam Isolation Valves (MSIVs) to be closed. Pressure control should be transitioned to Safety Relief Valves (SRVs). Note: Crew is expected to pursue Cooldown/Emergency Depressurization to minimize the radioactive release which will be allowed to proceed. Residual Drywell pressure will provide driving head to continue a release for the purpose of exercising offsite responders.</i></p>	<p>ER discusses clearing Lake Erie and closing Federal and State parklands. Assessment contacts USCG Sector Buffalo to broadcast message to mariners. ODNR Watercraft is dispatched to assist. Dose Assessment continues to monitor plant conditions and run dose projections. PAR issued by State to monitor EAS.</p> <p>FMTs begin traversing area where a plume could potentially be based on met data. News releases provided to public from State JIC.</p> <p>Air space (FAA) and rail traffic restricted. USDOE assistance is requested. 50-mile IPZ counties are notified.</p>	<p>Field response agencies assemble personnel and equipment (simulated)</p> <p>TCPs are planned & coordinated in EOCs</p> <p>(L) Lake County FMTs, if not already in field locations, are dispatched. Monitoring/decontamination teams, once assembled and ready, may move to assigned locations.</p> <p>EOCs will make the decision to relocate risk school population, if schools in session.</p> <p>Public Inquiry hotlines in the EOCs begin receiving calls.</p> <p>Care Center/Reception Center/Emergency Worker mon/decon personnel report to assigned mon/decon facilities.</p>


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Approximate Time	ON-SITE DRILL ACTIVITY and CONTROLLERS NOTES	ANTICIPATED STATE & COUNTY ACTIONS	
1102	Security provides an initial Accountability Report to the TSC Operations Manager/Shift Manager (simulated).	Radiological emergency information made available to farmers, food processors, and distributors through the local OSU Extension.	
1140	NRC NOTIFICATION (Site Area Emergency)		
1145	Drywell dose rates and Unit #1 Plant Vent monitor readings continue to increase.		
1152	Drywell radiation monitors 1D19 N100A and N100B exceed 40 Rem/Hour.		
1155	Emergency Operations Facility is declared operational per EPI-A8.		
1209	Joint Information Center is declared operational per JIC- 0003		
	THIS IS THE INDICATOR FOR A General Emergency (EAL RG1.1or RG1.2). <i>T-Zero for RG1.1 occurs when Unit #1 Plant Vent 1D19-K300 exceeds 1.3E+00 µCi/cc. If dose projection results are available to support declaration of RG1.2, then RG1.2 is preferred.</i>		
1225	Unit #1 Plant Vent 1D19-K300 exceeds 1.3E+00 µCi/cc and rises rapidly to > 2.5E+00 µCi/cc.		

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Approx-imate Time	ON-SITE DRILL ACTIVITY and CONTROLLERS NOTES	ANTICIPATED STATE & COUNTY ACTIONS	
12:40	PNPP Declares a GENERAL EMERGENCY based on the release of gaseous radioactivity resulting in offsite dose greater than 1,000 mrem TEDE or 5, 000 mrem child thyroid CDE.		
1240	<p>A General Emergency (EAL RG1.1 or RG1.2) should be declared based a release of gaseous radioactivity resulting in offsite dose greater than 1,000 mrem TEDE or 5,000 mrem child thyroid CDE.</p> <p>A Protective Action Recommendation (PAR) should be issued to evacuate subareas 1, 2, 3, and the Lake.</p> <p>Recommend KI per State plan and heightened awareness for the remainder of the EPZ.</p> <p><i>Notification message is not required for GE declaration.</i></p> <p>INF Data:</p> <ul style="list-style-type: none">☑ 1. Perry Nuclear Power Plant☑ 2. This is a Drill☑ 3. a. General Emergency declared based on EAL RG1.1/1.2☑ 4. a. Non-routine release is in progress.☑ 5. a. (PARs): Evacuate subareas 1, 2, 3, and the Lake		
	<p>EOF CONTROLLER:</p> <p><i>Notifications are considered initiated when the first offsite agency has been contacted to transmit the initial notification. (i.e. first agency answers the conference call)</i></p>		

Perry Nuclear Power Station 2018 Evaluated Exercise – On-Site / Offsite Timeline

Approximate Time	ON-SITE DRILL ACTIVITY and CONTROLLERS NOTES	ANTICIPATED STATE & COUNTY ACTIONS	
12:55	Offsite response agencies notified of General Emergency declaration @ 12:55.		
	EOF CONTROLLER: Notifications are considered <u>initiated</u> when the first offsite agency has been contacted to transmit the initial notification. (i.e. first agency answers the conference call)		
1255	NOTIFICATION TO OFFSITE AGENCIES (General Emergency/Protective Action Recommendation)	State of Ohio receives notification of the GE over the 5-WAY phone.	Counties receive notification of the GE over the 5-WAY phone.
CIS-08X	<i>The Controller should use the contingency card provided if this action has not been completed. However, if discussions are underway which the Controller feels will lead to the declaration, this CIS may be held for an additional time period.</i>	SEOC representatives are advised of the escalation to a General Emergency.	County Executive Groups are notified of the GE and of the Utility's protective action recommendations. The County Executive Groups deliberate over the EDL.
MS-05		Additional notifications to be performed by Assessment. Contiguous governments and 50-mile counties are kept advised.	Counties simulate notifications to all field agencies.
1255	A General Emergency (EAL RG1.1 or RG1.2) should have been declared based on a release of gaseous radioactivity resulting in offsite dose greater than 1,000 mrem TEDE or 5,000 mrem child thyroid CDE.	Dose Assessment continues to monitor plant conditions and run dose projections. PAR issued by State to evacuate 2-mile 360, 5-mile downwind. Remainder of EPZ stay tuned to EAS.	A Protective Action Decision (PAD) is coordinated with the three Risk Counties & State via the EDL. (L) Lake County assembles an EAS message, simulates sounding the sirens, and delivers the message to the Common Control Program Station, who simulates broadcast over the air.

Perry Nuclear Power Station 2018 Evaluated Exercise – On-Site / Offsite Timeline

Approximate Time	ON-SITE DRILL ACTIVITY and CONTROLLER'S NOTES	ANTICIPATED STATE & COUNTY ACTIONS	
1330	Team succeeds in replacing the control power transformer and fuse in MCC EF1B07-XM which allows the 1M51F0110 valve to be closed, terminating the release.	State issues PAR for public, institutionalized, and emergency workers within the evacuated areas to ingest KI.	
1340	NRC NOTIFICATION (General Emergency)	<p>FMTs begin taking air samples in the plume. Samples are screened and sent to the lab.</p> <p>State may request implementation of the NRF and a Presidential Emergency Declaration. State may consider requesting a Federal Major Disaster Declaration, dependent upon contamination and extent of event.</p> <p>News releases provided to public from State JIC. Public inquiry continues to field calls at the SEOC.</p> <p>ER considers extending the ag advisory to 50-miles.</p>	<p>(L) Lake County transmits a copy of the EAS message to the JIC, State EOC, EOF, and the other two counties.</p> <p>Monitoring/decontamination facilities are activated, if not already activated.</p>
13:45	EndEx		
CIS-09	<i>Announce Drill termination to the site</i>		
1345	Drill Termination.		
		ESF-10 will fill out their worksheet to determine if emergency worker can exceed dose.	Emergency phase of the exercise concludes in the 3 counties.

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2:00		Through Controller inject, the person who staffed ESF-10 is requested to approve the dose exceedance of an emergency worker in the field.	
		Emergency phase of the exercise concludes for the State of Ohio.	

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