



Nuclear Power Plant Exercise

Perry Nuclear Power Plant

Radiological Emergency Preparedness Exercise

Radiological Emergency Preparedness Program

Final After-Action Report/Improvement Plan

Exercise Date: September 27, 2022

Report Date: February 10, 2023



FEMA

Table of Contents

Executive Summary	1
Section 1: Exercise Overview	2
Section 2: Exercise Design Summary	3
2.1 Exercise Purpose	3
2.2 Exercise Core Capabilities	3
Section 3: Analysis of Capabilities	5
3.1 Exercise Evaluation and Results	5
Table 3.1.1 Summary - State of Ohio In-Sequence Activity	6
Table 3.1.2 Summary - State of Ohio Out-of-Sequence Activity	7
Table 3.1.3 Summary - Ashtabula County In-Sequence Activity	8
Table 3.1.4 Summary - Ashtabula County Out-of-Sequence Activity (9/26)	9
Table 3.1.5 Summary - Ashtabula County Out-of-Sequence Activity (9/27)	10
Table 3.1.6 Summary - Ashtabula County Out-of-Sequence Activity (9/28)	11
Table 3.1.7 Summary - Geauga County In-Sequence Activity	12
Table 3.1.8 Summary - Geauga County Out-of-Sequence Activity	13
Table 3.1.9 Summary - Lake County In-Sequence Activity	14
Table 3.1.10 Summary - Lake County Out-of-Sequence Activity	15
3.2 Detailed Results of Exercise Evaluation	16
3.2.1 State of Ohio In-Sequence	16
3.2.1.1 State Initial Notification Point - Watch Office	16
3.2.1.2 Assessment Room - Multi Agency Radio Communications System Communication Check	16
3.2.1.3 SEOC - Dose Assessment Room	16
3.2.1.4 SEOC - Emergency Support Function #10 - Operations Room	18
3.2.1.5 SEOC - Assessment Room	18
3.2.1.7 SEOC - Executive Room	19
3.2.1.8 SEOC - Joint Information Center Public Inquiry	20
3.2.1.9 SEOC - Joint Information Center Room	21
3.2.1.10 Public Information/Media Briefings	21
3.2.1.11 State of Ohio Public Information Officer - Perry Nuclear Power Plant Joint Information Center	22
3.2.1.12 State Liaisons at State of Ohio Emergency Operations Facility	22
3.2.1.13 State Liaisons at the Lake County Emergency Operations Center	23
3.2.2 State of Ohio Out-of-Sequence	23
3.2.2.1 Field Team Center Coordinator/Dosimetry Coordinator Briefing	23
3.2.2.2 Sample Screening Point/Field Monitoring Team Courier #21	24
3.2.2.3 Field Monitoring Team #13	24
3.2.2.4 Field Monitoring Team #14	25

3.2.2.5 Primary Alert & Notification - Lake Erie: Dosimetry Coordinator Briefing/KI Distribution Ohio Department of Natural Resources Radiological Briefing.....	26
3.2.2.6 Primary A&N - Lake Erie: Ohio Department of Natural Resources Interview.....	26
3.2.3 Ashtabula County In-Sequence	27
3.2.3.1 Initial Warning Point	27
3.2.3.2 Emergency Operations Center - Multi-Agency Radio Communications System Communication Check	27
3.2.3.3 Emergency Operations Center.....	28
3.2.3.4 Emergency Operations Center - Executive Room.....	29
3.2.3.5 Emergency Operations Center - Public Information Officer.....	29
3.2.4 Ashtabula County Out-of-Sequence	30
3.2.4.1 Dosimetry Coordinator Briefing: Back-Up Route Alerting	30
3.2.4.2 Back-Up Route Alerting	30
3.2.4.3 Ashtabula County Public Information Officer - Perry Nuclear Power Plant Joint.....	30
3.2.4.4 Traffic and Access Control Point - Dosimetry Coordinator Briefing.....	31
3.2.4.5 Traffic and Access Control Point - Dosimetry Coordinator Interview.....	31
3.2.4.6 Monitoring and Decontamination - Emergency Workers: Dosimetry Coordinator Radiological Briefing	32
3.2.4.7 Monitoring and Decontamination - Emergency Workers	32
3.2.4.8 Monitoring and Decontamination - Emergency Worker Vehicles	33
3.2.5 Geauga County In-Sequence	34
3.2.5.1 Initial Notification Point	34
3.2.5.2 Emergency Operations Center - Multi Agency Radio Communications System Communication Check	35
3.2.5.3 Emergency Operations Center.....	35
3.2.5.4 Emergency Operations Center - Executive Room.....	36
3.2.5.5 Emergency Operations Center - Public Information Officer.....	37
3.2.5.5 Geauga County Public Information Officer - Perry Nuclear Power Plant Joint Information Center	37
3.2.5.6 Traffic and Access Control Point - Dosimetry Coordinator Briefing.....	37
3.2.5.7 Traffic and Access Control Point - Dosimetry Coordinator Interview.....	37
3.2.6 Geauga County Out-of-Sequence	38
3.2.6.1 Monitoring and Decontamination - Evacuee: Dosimetry Coordinator Rad Briefing.....	38
3.2.6.2 Monitoring and Decontamination - Evacuee.....	39
3.2.6.3 Monitoring and Decontamination - Evacuee Vehicles	39
3.2.6.4 Reception Center - Registration	39
3.2.6.5 Congregate Care Center	40
3.2.7 Lake County In-Sequence	40
3.2.7.1 Initial Notification Point.....	40
3.2.7.2 Emergency Operations Center - Multi Agency Radio Communications System Communication Check	40

3.2.7.3 Emergency Operations Center - Lake County	41
3.2.7.4 Emergency Operations Center - Executive Group	42
3.2.7.5 Emergency Operations Center - Public Information Officer.....	42
3.2.7.6 Lake County Public Information Officer - Perry Nuclear Power Plant Joint Information Center	43
3.2.7.7 Lake County FMT Dosimetry Coordinator Briefing - Dosimetry Distribution	43
3.2.7.8 Lake County FMT Coordinator	43
3.2.7.9 Lake County Communicator	44
3.2.7.10 Field Monitoring Team #1.....	44
3.2.7.11 Field Monitoring Team #2.....	45
3.2.7.12 Reception Center-Registration	45
3.2.7.13 Congregate Care Center	46
3.2.7.14 Monitoring and Decontamination -Evacuee: Dosimetry Coordinator Radiological Briefing.....	46
3.2.7.15 Monitoring and Decontamination - Evacuee.....	47
3.2.7.16 Monitoring and Decontamination - Evacuee Vehicles.....	47
3.2.7.17 Incident Command	47
3.2.7.18 Mobile Command.....	48
3.2.7.19 Traffic and Access Control Point - Dosimetry Coordinator Briefing.....	49
3.2.7.20 Traffic and Access Control Point - Interview.....	49
3.2.8 Lake County Out-of-Sequence	50
3.2.8.1 Back-Up Route Alerting.....	50
3.2.8.2 Dosimetry Coordinator Rad Briefing Back-Up Route Alerting/Route Verification	51
3.2.8.3 Perry School District Interview - Dosimetry Coordinator Briefing	51
3.2.8.4 Perry School District Interview	51
Section 4: Conclusion	53
Section 5: Improvement Plan	54
Appendix A: Exercise Timeline.....	56
Appendix B: Participating Organizations.....	58
Appendix C: Evaluation Team.....	60
Appendix D: Acronyms and Abbreviations.....	63
Appendix E: Onsite/Offsite Scenario Timeline.....	65
Appendix F: Extent-of-Play Agreements	72

Executive Summary

On September 27, 2022, the offsite response organizations of the Perry Nuclear Power Plant 10-mile emergency planning zone participated in the Plume Exposure Pathway Exercise. Department of Homeland Security/Federal Emergency Management Agency Region 5 Radiological Emergency Preparedness Program staff evaluated that exercise, which also included out of sequence activities conducted September 20, 26, 27, and 28, 2022. This report outlines the evaluation results from the exercise and out of sequence activities.

The purpose of the exercise was to assess the level of state and local preparedness in responding to an incident at the Perry Nuclear Power Plant. It was conducted in accordance with Department of Homeland Security/Federal Emergency Management Agency policies and guidance concerning the exercise of state and local radiological emergency response procedures. The previous federally evaluated exercise for this site was conducted on September 15, 2020. The qualifying emergency preparedness exercise was conducted on November 28, 1984.

Officials and representatives from participating agencies and organizations demonstrated knowledge of their emergency response plans and procedures, and successfully implemented them during the exercise and out of sequence activities. All jurisdictions met the exercise objectives and successfully demonstrated the corresponding core capabilities identified in Section 2.2 of this report. Department of Homeland Security/Federal Emergency Management Agency Staff identified one Finding during this exercise.

Department of Homeland Security/Federal Emergency Management Agency assessment team identified one Level 2 Finding during this exercise that concerned monitoring of an Emergency Workers vehicle. The Capability Target was successfully redemonstrated and the Finding was resolved during the exercise (p.33). Details of the finding can be found in Section 5 “Improvement Plan” of this report (p.54).

The findings presented in this report are based on the evaluations of the Federal Evaluation Team, with final determinations made by the Department of Homeland Security/Federal Emergency Management Agency Region 5 Regional Assistance Committee Chair and approved by the Department of Homeland Security/Federal Emergency Management Agency Headquarters.

It was apparent that a great deal of preparation and training was conducted by the offsite response organizations to successfully demonstrate the ability to protect the health and safety of the public. They provided the necessary support and resources to respond to an incident at the Perry Nuclear Power Plant.

The Department of Homeland Security/Federal Emergency Management Agency wishes to acknowledge the efforts of the many individuals who participated in the exercise and made it a success. Approximately 510 participants demonstrated reasonable assurance to protect public health and safety while operating in the current SARS-CoV-2/COVID-19 pandemic environment and responding to other ongoing real-world events. The participants demonstrated professionalism and teamwork throughout all phases of the exercise.

Section 1: Exercise Overview

Exercise Name	2022 Perry Nuclear Power Plant Radiological Emergency Preparedness, Full Participation, Plume Exposure Pathway Hostile Action Based Exercise	
Type of Exercise	Full Participation, Plume Exposure Pathway, Hostile Action Based Exercise	
Exercise Date	September 27, 2022	
Out of Sequence Date(s)	September 20, 26, 27, and 28, 2022	
Program	Radiological Emergency Preparedness Program	
FINAL Scenario Submittal to FEMA	July 20, 2022	
FINAL Extent-of-Play Agreement Submittal to FEMA	State of Ohio, Ashtabula County, Geauga County, and Lake County	
Mission Area	Response, Preparedness, Protection	
Core Capabilities	Access Control/Identity Verification	On-Scene Security, Protection, & Law Enforcement
	Critical Transportation	Operational Communication
	Environmental Response/Health & Safety	Operational Coordination
	Health & Social Services	Planning
	Housing	Public Health, Healthcare, & Emergency Medical Services
	Mass Care Services	Public Information & Warning
	Natural & Cultural Resources	Situational Assessment
Participating Organizations	See Appendix B for the list of participating organizations	
Evaluated Facilities	See Appendix F for the extent of play agreement	
Exercise Planning Team	Federal Emergency Management Agency Ohio Emergency Management Agency Ohio Department of Health Ashtabula County Emergency Management Agency Gauga County Department Emergency Services Lake County Emergency Management Agency Energy Harbor, Inc. (Perry Nuclear Power Plant)	
FEMA Exercise Evaluation Leadership Team	Sean O'Leary, Regional Assistance Committee Chair Edward Golinski, Exercise Director Carl Bebrich, Assistant Exercise Director Brian Reinhart, Site Specialist	

Section 2: Exercise Design Summary

2.1 Exercise Purpose

The Department of Homeland Security/Federal Emergency Management Agency administers the Radiological Emergency Preparedness Program pursuant to the regulations found in Title 44 CFR parts §350, 351, 352, 353, and 354. CFR §350 codifies 16 planning standards that form the basis for radiological emergency response planning for the licensee, state, local, tribal, and territorial governments impacted by the emergency planning zones established for each nuclear power plant site in the United States. United States Nuclear Regulatory Commission regulations also codify the 16 planning standards for the licensee. 44 CFR §350 sets forth the mechanisms for the formal review and approval of state, local, tribal, and territorial government radiological emergency response plans and procedures by Department of Homeland Security/Federal Emergency Management Agency. One of the Radiological Emergency Preparedness Program cornerstones established by these regulations is the biennial exercise of offsite response capabilities. During these exercises, affected state, local, tribal, and territorial governments demonstrate the capability to implement their plans and procedures to protect the health and safety of the public in the event of a radiological incident at a nuclear plant.

The results of this exercise, together with reviews of the radiological emergency response plans and verification of the periodic requirements set forth in NUREG-0654/FEMA-REP-1, Rev. 2, the annual letter of certification, and staff assistance visits, enabled Department of Homeland Security/Federal Emergency Management Agency to provide a statement with the transmission of this final after-action report to the United States Nuclear Regulatory Commission. This statement verifies that the affected state, local, tribal, and territorial 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 incident; and (2) capable of being implemented. Using the Homeland Security Exercise and Evaluation Program methodology, core capabilities-based planning allows for exercise planning teams to develop exercise objectives and observe exercise outcomes through a framework of specific action items.

2.2 Exercise Core Capabilities

Furthermore, in an effort to strengthen response against catastrophic incidents, Department of Homeland Security/Federal Emergency Management Agency is aligning the Radiological Emergency Preparedness Program with the National Preparedness System to ensure that not only preparedness is addressed, but also the five mission areas: prevention, protection, recovery, response, and mitigation. Additionally, the exercise objectives and Capability Targets assessed meet Radiological Emergency Preparedness Program Manual requirements and objectives. The core capabilities scheduled for demonstration during this exercise were:

- **Access Control/Identity Verification:** Apply a broad range of physical, technological, and cyber measures to control admittance to critical locations and systems, limiting access to authorized individuals to carry out legitimate activities.
- **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.
- **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.

- **Health and Social Services:** Restore and improve health and social services networks to promote the resilience, independence, health (including behavioral health), and well-being of the whole community.
- **Housing:** Implement housing solutions that effectively support the needs of the whole community and contribute to its sustainability and resilience.
- **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.
- **Natural and Cultural Resources:** Protect natural and cultural resources and historic properties through appropriate planning, mitigation, response, and recovery actions to preserve, conserve, rehabilitate, and restore them consistent with post-disaster community priorities and best practices and in compliance with appropriate environmental and historical preservation laws and executive orders.
- **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.
- **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.
- **Operational Communication:** 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.
- **Planning:** Conduct a systematic process engaging the whole community as appropriate in the development of executable strategic, Operational, and/or community-based approaches to meet defined objectives.
- **Public Health, Healthcare, and Emergency Medical Services:** Provide lifesaving medical treatment via emergency medical services and related Operations and avoid additional disease and injury by providing targeted public health and medical support and products to all people in need within the affected area.
- **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.
- **Situational Awareness:** 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.

These core capabilities, when successfully demonstrated, meet the exercise objectives. The objectives for this exercise were as follows:

- **Objective 1:** Emergency Operations Management
- **Objective 2:** Exposure Control
- **Objective 3:** Alert and Notification
- **Objective 4:** Detect, Measure, Sample, Analyze, and Assess
- **Objective 5:** Operate

Section 3: Analysis of Capabilities

3.1 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 27, 2022, plume exposure pathway exercise and out of sequence activities conducted the week of September 26-30, 2022.

Each jurisdiction and functional entity were evaluated based on the demonstration of objectives, core capabilities, and Capability Targets as delineated in the Department of Homeland Security/Federal Emergency Management Agency Radiological Emergency Preparedness Program Manual dated December 2019. Capability Targets are listed by number and the demonstration status of those Capability Targets are indicated by the use of the following terms:

- **Met (M):** The jurisdiction or functional entity performed all activities under the objective/Capability Target to the level required per the work plan and/or the extent-of-play agreement, with no Level 1 or Level 2 Findings evaluated under that objective/Capability Target during the current activity and no unresolved prior level 2 finding(s).
- **Level 1 Finding (L1):** An observed or identified inadequacy of organizational performance during an assessment activity that could cause a determination that offsite emergency preparedness is not adequate to provide reasonable assurance that appropriate protective measures can be taken in the event of a radiological emergency to protect the health and safety of the public living in the vicinity of a nuclear power plant.
- **Level 2 Finding (L2):** An observed or identified inadequacy of organizational performance during an assessment activity that is not considered, by itself, to adversely impact public health and safety.
- **Plan Issue (P):** An observed or identified inadequacy in the offsite response organization's emergency plan/implementing procedures, rather than in that of the offsite response organization's performance.
- **Not Applicable (NA):** The objective/Capability Target does not apply to the jurisdiction.
- **Not Selected (NS):** For a justifiable reason, the jurisdiction or functional entity did not perform assessment activities under the objective/Capability Target as specified in the extent-of-play agreement.

Table 3.1.1 Summary - State of Ohio In-Sequence Activity

SITE: Perry Nuclear Power Plant DATE: September 27, 2022 M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue NA: Not Applicable NS: Not Selected	State INP - Watch Office	SEOC - Dose Assessment Room	SEOC - ESF #10 - Operations Room	SEOC - Assessment Room	SEOC - Operations Room	SEOC - Executive Room	SEOC - JIC Public Inquiry	SEOC - JIC Room	Public Information/Media Briefings	State of Ohio PIO - PNPP JIC	State LNOs @ PNPP EOF	State LNOs @ Lake County Emergency Operations Center
Objective 1: Emergency Operations Management Capability Targets												
1.1: Mobilization	M	M	NA	M	M	M	NS	M	M	NS	M	M
1.2: Direction and Control	NA	M	NA	M	M	M	NS	NS	M	NS	M	M
1.3: Protective Action Recommendations	NA	M	NA	NA	NA	M	NA	NA	NA	NA	NA	NA
1.4: Protective Action Decisions Plume Phase	NA	M	NA	NA	NA	M	NA	NA	NA	NA	NA	NA
1.5: Protective Action Decision Implementation Plume Phase	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA
1.6: Protective Action Decisions Post-Plume Phase	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA
1.7: Protective Action Decision Implementation for the Post-Plume Phase	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA
Objective 2: Exposure Control Capability Targets												
2.1: Emergency Worker Exposure Control Decision-Making Process	NA	M	M	NA	NA	M	NA	NA	NA	NA	NA	NA
2.2: Emergency Worker Exposure Control Management	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA
Objective 3: Alert and Notification Capability Targets												
3.1: Communications	M	M	NA	M	M	M	NS	M	M	NS	M	M
3.2: Alert and Notification of the Public	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA
3.3: Emergency Information and Instructions Public and News Media	NA	NA	NA	NA	NA	M	M	M	M	M	NA	NA
Objective 4: Detect, Measure, Sample, Analyze, and Assess Capability Targets												
4.1: Field Monitoring Teams Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4.2: Plume Phase Measurements and Sampling	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4.3: Post-Plume Phase Measurements and Sampling	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4.4: Laboratory Operations	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4.5: Plume Phase Analysis and Dose Assessment	NA	M	NA	NA	NA	M	NA	NA	NA	NA	NA	NA
4.6: Post-Plume Phase Sampling Plan Development and Analysis	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Objective 5: Operate Capability Targets												
5.1: Monitoring, Decontamination, Sheltering, and Registration of Evacuees	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5.2: Monitoring & Decontamination of Emergency Workers, Equipment, & Vehicles	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5.3: Transportation and Treatment of Contaminated, Injured Individuals	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5.4: Traffic and Access Control	NA	NA	NA	M	NA	NA	NA	NA	NA	NA	NA	NA

Table 3.1.2 Summary - State of Ohio Out-of-Sequence Activity

SITE: Perry Nuclear Power Plant DATE: September 20, 2022 M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue NA: Not Applicable NS: Not Selected	Field Team Center Coordinator/Dosimetry Coordinator Briefing	Sample Screening / FMT Courier 21	Field Monitoring Team #13	Field Monitoring Team #14	Primary A&N - Lake Erie: Dosimetry Coordinator Briefing/KI Distribution ODNR RAD Briefing	Primary A&N - Lake Erie: ODNR Interview	Assessment Room – MARCS Comm Check
Objective 1: Emergency Operations Management Capability Targets							
1.1: Mobilization	M	NA	M	M	NA	M	NA
1.2: Direction and Control	NA	NA	NA	NA	NA	M	NA
1.3: Protective Action Recommendations	NA	NA	NA	NA	NA	NA	NA
1.4: Protective Action Decisions Plume Phase	NA	NA	NA	NA	NA	NA	NA
1.5: Protective Action Decision Implementation Plume Phase	NA	NA	NA	NA	NA	NA	NA
1.6: Protective Action Decisions Post-Plume Phase	NA	NA	NA	NA	NA	NA	NA
1.7: Protective Action Decision Implementation for the Post-Plume Phase	NA	NA	NA	NA	NA	NA	NA
Objective 2: Exposure Control Capability Targets							
2.1: Emergency Worker Exposure Control Decision-Making Process	NA	NA	NA	NA	NA	NA	NA
2.2: Emergency Worker Exposure Control Management	M	NA	M	M	M	M	NA
Objective 3: Alert and Notification Capability Targets							
3.1: Communications	M	NA	M	M	NA	M	M
3.2: Alert and Notification of the Public	NA	NA	NA	NA	NA	M	NA
3.3: Emergency Information and Instructions Public and News Media	NA	NA	NA	NA	NA	NA	NA
Objective 4: Detect, Measure, Sample, Analyze, and Assess Capability Targets							
4.1: Field Monitoring Teams Management	M	NA	NA	NA	NA	NA	NA
4.2: Plume Phase Measurements and Sampling	NA	M	M	M	NA	NA	NA
4.3: Post-Plume Phase Measurements and Sampling	NA	NA	NA	NA	NA	NA	NA
4.4: Laboratory Operations	NA	NA	NA	NA	NA	NA	NA
4.5: Plume Phase Analysis and Dose Assessment	NA	NA	NA	NA	NA	NA	NA
4.6: Post-Plume Phase Sampling Plan Development and Analysis	NA	NA	NA	NA	NA	NA	NA
Objective 5: Operate Capability Targets							
5.1: Monitoring, Decontamination, Sheltering, and Registration of Evacuees	NA	NA	NA	NA	NA	NA	NA
5.2: Monitoring & Decontamination of Emergency Workers, Equipment, & Vehicles	NA	NA	NA	NA	NA	NA	NA
5.3: Transportation and Treatment of Contaminated, Injured Individuals	NA	NA	NA	NA	NA	NA	NA
5.4: Traffic and Access Control	NA	NA	NA	NA	NA	NA	NA

Table 3.1.3 Summary - Ashtabula County In-Sequence Activity

SITE: Perry Nuclear Power Plant DATE: September 27, 2022 M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue NA: Not Applicable NS: Not Selected	Initial Warning Point	Emergency Operations Center - MARCS	Emergency Operations Center	Emergency Operations Center - Executive Room	Emergency Operations Center - PIO
Objective 1: Emergency Operations Management Capability Targets					
1.1: Mobilization	M	NA	M	NA	NA
1.2: Direction and Control	NA	NA	M	M	NA
1.3: Protective Action Recommendations	NA	NA	NA	NA	NA
1.4: Protective Action Decisions Plume Phase	NA	NA	NS	M	NA
1.5: Protective Action Decision Implementation Plume Phase	NA	NA	M	NA	NA
1.6: Protective Action Decisions Post-Plume Phase	NA	NA	NS	NA	NA
1.7: Protective Action Decision Implementation for the Post-Plume Phase	NA	NA	NS	NA	NA
Objective 2: Exposure Control Capability Targets					
2.1: Emergency Worker Exposure Control Decision-Making Process	NA	NA	NA	M	NA
2.2: Emergency Worker Exposure Control Management	NA	NA	M	NA	NA
Objective 3: Alert and Notification Capability Targets					
3.1: Communications	M	M	M	NA	NA
3.2: Alert and Notification of the Public	M	NA	NA	NA	NA
3.3: Emergency Information and Instructions Public and News Media	NA	NA	NS	NA	M
Objective 4: Detect, Measure, Sample, Analyze, and Assess Capability Targets					
4.1: Field Monitoring Teams Management	NA	NA	NA	NA	NA
4.2: Plume Phase Measurements and Sampling	NA	NA	NA	NA	NA
4.3: Post-Plume Phase Measurements and Sampling	NA	NA	NA	NA	NA
4.4: Laboratory Operations	NA	NA	NA	NA	NA
4.5: Plume Phase Analysis and Dose Assessment	NA	NA	NA	NA	NA
4.6: Post-Plume Phase Sampling Plan Development and Analysis	NA	NA	NA	NA	NA
Objective 5: Operate Capability Targets					
5.1: Monitoring, Decontamination, Sheltering, and Registration of Evacuees	NA	NA	NS	NA	NA
5.2: Monitoring & Decontamination of Emergency Workers, Equipment, & Vehicles	NA	NA	NS	NA	NA
5.3: Transportation and Treatment of Contaminated, Injured Individuals	NA	NA	NS	NA	NA
5.4: Traffic and Access Control	NA	NA	M	NA	NA

Table 3.1.4 Summary - Ashtabula County Out-of-Sequence Activity (9/26)

SITE: Perry Nuclear Power Plant DATE: September 26, 2022 M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue NA: Not Applicable NS: Not Selected	Dosimetry Coordinator Briefing: Back-Up Route	Back-Up Route Alerting
Objective 1: Emergency Operations Management Capability Targets		
1.1: Mobilization	NA	NA
1.2: Direction and Control	NA	NA
1.3: Protective Action Recommendations	NA	NA
1.4: Protective Action Decisions Plume Phase	NA	NA
1.5: Protective Action Decision Implementation Plume Phase	NA	NA
1.6: Protective Action Decisions Post-Plume Phase	NA	NA
1.7: Protective Action Decision Implementation for the Post-Plume Phase	NA	NA
Objective 2: Exposure Control Capability Targets		
2.1: Emergency Worker Exposure Control Decision-Making Process	NA	NA
2.2: Emergency Worker Exposure Control Management	M	M
Objective 3: Alert and Notification Capability Targets		
3.1: Communications	NA	M
3.2: Alert and Notification of the Public	NA	M
3.3: Emergency Information and Instructions Public and News Media	NA	NA
Objective 4: Detect, Measure, Sample, Analyze, and Assess Capability Targets		
4.1: Field Monitoring Teams Management	NA	NA
4.2: Plume Phase Measurements and Sampling	NA	NA
4.3: Post-Plume Phase Measurements and Sampling	NA	NA
4.4: Laboratory Operations	NA	NA
4.5: Plume Phase Analysis and Dose Assessment	NA	NA
4.6: Post-Plume Phase Sampling Plan Development and Analysis	NA	NA
Objective 5: Operate Capability Targets		
5.1: Monitoring, Decontamination, Sheltering, and Registration of Evacuees	NA	NA
5.2: Monitoring & Decontamination of Emergency Workers, Equipment, & Vehicles	NA	NA
5.3: Transportation and Treatment of Contaminated, Injured Individuals	NA	NA
5.4: Traffic and Access Control	NA	NA

Table 3.1.5 Summary - Ashtabula County Out-of-Sequence Activity (9/27)

SITE: Perry Nuclear Power Plant DATE: September 27, 2022 M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue NA: Not Applicable NS: Not Selected	Ashtabula County PIO – PNPP JIC	Traffic and Access Control Point - Dosimetry Coordinator Briefing	Traffic and Access Control Point - Dosimetry Coordinator
Objective 1: Emergency Operations Management Capability Targets			
1.1: Mobilization	NA	NA	NA
1.2: Direction and Control	NA	NA	NA
1.3: Protective Action Recommendations	NA	NA	NA
1.4: Protective Action Decisions Plume Phase	NA	NA	NA
1.5: Protective Action Decision Implementation Plume Phase	NA	NA	NA
1.6: Protective Action Decisions Post-Plume Phase	NA	NA	NA
1.7: Protective Action Decision Implementation for the Post-Plume Phase	NA	NA	NA
Objective 2: Exposure Control Capability Targets			
2.1: Emergency Worker Exposure Control Decision-Making Process	NA	NA	NA
2.2: Emergency Worker Exposure Control Management	NA	M	M
Objective 3: Alert and Notification Capability Targets			
3.1: Communications	NA	NA	M
3.2: Alert and Notification of the Public	NA	NA	NA
3.3: Emergency Information and Instructions Public and News Media	M	NA	NA
Objective 4: Detect, Measure, Sample, Analyze, and Assess Capability Targets			
4.1: Field Monitoring Teams Management	NA	NA	NA
4.2: Plume Phase Measurements and Sampling	NA	NA	NA
4.3: Post-Plume Phase Measurements and Sampling	NA	NA	NA
4.4: Laboratory Operations	NA	NA	NA
4.5: Plume Phase Analysis and Dose Assessment	NA	NA	NA
4.6: Post-Plume Phase Sampling Plan Development and Analysis	NA	NA	NA
Objective 5: Operate Capability Targets			
5.1: Monitoring, Decontamination, Sheltering, and Registration of Evacuees	NA	NA	NA
5.2: Monitoring & Decontamination of Emergency Workers, Equipment, & Vehicles	NA	NA	NA
5.3: Transportation and Treatment of Contaminated, Injured Individuals	NA	NA	NA
5.4: Traffic and Access Control	NA	NA	M

Table 3.1.6 Summary - Ashtabula County Out-of-Sequence Activity (9/28)

SITE: Perry Nuclear Power Plant DATE: September 28, 2022 M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue NA: Not Applicable NS: Not Selected	Mon/Decon - Emergency Workers: Dosimetry	Mon/Decon - Emergency Workers	Mon/Decon - Emergency Worker Vehicles
Objective 1: Emergency Operations Management Capability Targets			
1.1: Mobilization	NA	NA	NA
1.2: Direction and Control	NA	NA	NA
1.3: Protective Action Recommendations	NA	NA	NA
1.4: Protective Action Decisions Plume Phase	NA	NA	NA
1.5: Protective Action Decision Implementation Plume Phase	NA	NA	NA
1.6: Protective Action Decisions Post-Plume Phase	NA	NA	NA
1.7: Protective Action Decision Implementation for the Post-Plume Phase	NA	NA	NA
Objective 2: Exposure Control Capability Targets			
2.1: Emergency Worker Exposure Control Decision-Making Process	NA	NA	NA
2.2: Emergency Worker Exposure Control Management	M	M	M
Objective 3: Alert and Notification Capability Targets			
3.1: Communications	M	NA	NA
3.2: Alert and Notification of the Public	NA	NA	NA
3.3: Emergency Information and Instructions Public and News Media	NA	NA	NA
Objective 4: Detect, Measure, Sample, Analyze, and Assess Capability Targets			
4.1: Field Monitoring Teams Management	NA	NA	NA
4.2: Plume Phase Measurements and Sampling	NA	NA	NA
4.3: Post-Plume Phase Measurements and Sampling	NA	NA	NA
4.4: Laboratory Operations	NA	NA	NA
4.5: Plume Phase Analysis and Dose Assessment	NA	NA	NA
4.6: Post-Plume Phase Sampling Plan Development and Analysis	NA	NA	NA
Objective 5: Operate Capability Targets			
5.1: Monitoring, Decontamination, Sheltering, and Registration of Evacuees	NA	NA	NA
5.2: Monitoring & Decontamination of Emergency Workers, Equipment, & Vehicles	NA	M	L2
5.3: Transportation and Treatment of Contaminated, Injured Individuals	NA	NA	NA
5.4: Traffic and Access Control	NA	NA	NA

Table 3.1.7 Summary - Geauga County In-Sequence Activity

SITE: Perry Nuclear Power Plant DATE: September 27, 2022 M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue NA: Not Applicable NS: Not Selected	Initial Notification Point	MARCS Comm Check	Emergency Operations Center	Emergency Operations Center - Executive Room	Emergency Operations Center - PIO	Gauga County - PNPP JIC	Traffic and Access Control Point - Dosimetry Coordinator Briefing	Traffic and Access Control Point - Dosimetry Coordinator Interview
Objective 1: Emergency Operations Management Capability Targets								
1.1: Mobilization	M	NA	M	NA	NA	NA	NA	NA
1.2: Direction and Control	NA	NA	M	M	NA	NA	NA	NA
1.3: Protective Action Recommendations	NA	NA	NA	NA	NA	NA	NA	NA
1.4: Protective Action Decisions Plume Phase	NA	NA	NS	M	NA	NA	NA	NA
1.5: Protective Action Decision Implementation Plume Phase	NA	NA	M	NA	NA	NA	NA	NA
1.6: Protective Action Decisions Post-Plume Phase	NA	NA	NS	NA	NA	NA	NA	NA
1.7: Protective Action Decision Implementation for the Post-Plume Phase	NA	NA	NS	NA	NA	NA	NA	NA
Objective 2: Exposure Control Capability Targets								
2.1: Emergency Worker Exposure Control Decision-Making Process	NA	NA	NA	M	NA	NA	NA	NA
2.2: Emergency Worker Exposure Control Management	NA	NA	M	NA	NA	NA	M	M
Objective 3: Alert and Notification Capability Targets								
3.1: Communications	M	M	M	NA	NA	NA	NA	M
3.2: Alert and Notification of the Public	M	NA	NA	NA	NA	NA	NA	NA
3.3: Emergency Information and Instructions Public and News Media	NA	NA	NS	NA	M	M	NA	NA
Objective 4: Detect, Measure, Sample, Analyze, and Assess Capability Targets								
4.1: Field Monitoring Teams Management	NA	NA	NA	NA	NA	NA	NA	NA
4.2: Plume Phase Measurements and Sampling	NA	NA	NA	NA	NA	NA	NA	NA
4.3: Post-Plume Phase Measurements and Sampling	NA	NA	NA	NA	NA	NA	NA	NA
4.4: Laboratory Operations	NA	NA	NA	NA	NA	NA	NA	NA
4.5: Plume Phase Analysis and Dose Assessment	NA	NA	NA	NA	NA	NA	NA	NA
4.6: Post-Plume Phase Sampling Plan Development and Analysis	NA	NA	NA	NA	NA	NA	NA	NA
Objective 5: Operate Capability Targets								
5.1: Monitoring, Decontamination, Sheltering, and Registration of Evacuees	NA	NA	NS	NA	NA	NA	NA	NA
5.2: Monitoring & Decontamination of Emergency Workers, Equipment, & Vehicles	NA	NA	NS	NA	NA	NA	NA	NA
5.3: Transportation and Treatment of Contaminated, Injured Individuals	NA	NA	NS	NA	NA	NA	NA	NA
5.4: Traffic and Access Control	NA	NA	M	NA	NA	NA	NA	M

Table 3.1.8 Summary - Geauga County Out-of-Sequence Activity

SITE: Perry Nuclear Power Plant DATE: September 28, 2022 M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue NA: Not Applicable NS: Not Selected	Mon/Decon - Evacuee: Dosimetry Coordinator Rad	Mon/Decon - Evacuee	Mon/Decon - Evacuee Vehicles	Reception Center - Registration	Congregate Care Center
Objective 1: Emergency Operations Management Capability Targets					
1.1: Mobilization	NA	NA	NA	NA	NA
1.2: Direction and Control	M	NA	NA	NA	NA
1.3: Protective Action Recommendations	NA	NA	NA	NA	NA
1.4: Protective Action Decisions Plume Phase	NA	NA	NA	NA	NA
1.5: Protective Action Decision Implementation Plume Phase	NA	NA	NA	NA	NA
1.6: Protective Action Decisions Post-Plume Phase	NA	NA	NA	NA	NA
1.7: Protective Action Decision Implementation for the Post-Plume Phase	NA	NA	NA	NA	NA
Objective 2: Exposure Control Capability Targets					
2.1: Emergency Worker Exposure Control Decision-Making Process	NA	NA	NA	NA	NA
2.2: Emergency Worker Exposure Control Management	M	M	M	NA	NA
Objective 3: Alert and Notification Capability Targets					
3.1: Communications	M	NA	NA	NA	NA
3.2: Alert and Notification of the Public	NA	NA	NA	NA	NA
3.3: Emergency Information and Instructions Public and News Media	NA	NA	NA	NA	NA
Objective 4: Detect, Measure, Sample, Analyze, and Assess Capability Targets					
4.1: Field Monitoring Teams Management	NA	NA	NA	NA	NA
4.2: Plume Phase Measurements and Sampling	NA	NA	NA	NA	NA
4.3: Post-Plume Phase Measurements and Sampling	NA	NA	NA	NA	NA
4.4: Laboratory Operations	NA	NA	NA	NA	NA
4.5: Plume Phase Analysis and Dose Assessment	NA	NA	NA	NA	NA
4.6: Post-Plume Phase Sampling Plan Development and Analysis	NA	NA	NA	NA	NA
Objective 5: Operate Capability Targets					
5.1: Monitoring, Decontamination, Sheltering, and Registration of Evacuees	NA	M	M	M	M
5.2: Monitoring & Decontamination of Emergency Workers, Equipment, & Vehicles	NA	NA	NA	NA	NA
5.3: Transportation and Treatment of Contaminated, Injured Individuals	NA	NA	NA	NA	NA
5.4: Traffic and Access Control	NA	NA	NA	NA	NA

Table 3.1.9 Summary - Lake County In-Sequence Activity

SITE: Perry Nuclear Power Plant DATE: September 27, 2022 M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue NA: Not Applicable NS: Not Selected	Initial Notification Point	Emergency Operations Center - MARCS Comm Check	Emergency Operations Center - Lake County	Emergency Operations Center - Executive Group	Emergency Operations Center - PIO	Lake County PIO - PNPP JIC	Lake County FMT Dosimetry Coordinator Briefing - Dosimetry	Lake County FMT Coordinator	Lake County Communicator	Field Monitoring Team #1	Field Monitoring Team #2	Reception Center-Registration	Congregate Care Center	Mon/Decon -Evacuee: Dosimetry Coordinator Rad Briefing	Mon/Decon -Evacuee	Mon/Decon -Evacuee Vehicles	Incident Command	Mobile Command	Traffic and Access Control Point - Dosimetry Coordinator Briefing	Traffic and Access Control Point - Interview
Objective 1: Emergency Operations Management Capability Targets																				
1.1: Mobilization	M	NA	M	NA	NA	NA	NA	M	M	M	M	NA	NA	NA	NA	NA	M	M	NA	NA
1.2: Direction and Control	NA	NA	M	M	NA	NA	NA	NA	NA	NA	NA	NA	NA	M	NA	NA	M	M	NA	NA
1.3: Protective Action Recommendations	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1.4: Protective Action Decisions Plume Phase	NA	NA	NA	M	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	M	NA	NA	NA
1.5: Protective Action Decision Implementation Plume Phase	NA	NA	M	M	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1.6: Protective Action Decisions Post-Plume Phase	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1.7: Protective Action Decision Implementation for the Post-Plume Phase	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Objective 2: Exposure Control Capability Targets																				
2.1: Emergency Worker Exposure Control Decision-Making Process	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2.2: Emergency Worker Exposure Control Management	NA	NA	M	NA	NA	NA	M	NA	NA	M	M	NA	NA	M	M	M	M	M	M	M
Objective 3: Alert and Notification Capability Targets																				
3.1: Communications	M	M	M	NA	NA	NA	NS	NA	M	M	M	NA	NA	M	NA	NA	M	M	NA	M
3.2: Alert and Notification of the Public	NA	NA	M	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3.3: Emergency Information and Instructions Public and News Media	NA	NA	NS	NA	M	M	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Objective 4: Detect, Measure, Sample, Analyze, and Assess Capability Targets																				
4.1: Field Monitoring Teams Management	NA	NA	NA	NA	NA	NA	NA	M	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4.2: Plume Phase Measurements and Sampling	NA	NA	NA	NA	NA	NA	NA	NA	NA	M	M	NA	NA	NA	NA	NA	NA	NA	NA	NA
4.3: Post-Plume Phase Measurements and Sampling	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4.4: Laboratory Operations	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4.5: Plume Phase Analysis and Dose Assessment	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4.6: Post-Plume Phase Sampling Plan Development and Analysis	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Objective 5: Operate Capability Targets																				
5.1: Monitoring, Decontamination, Sheltering, and Registration of Evacuees	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	M	M	NA	M	M	NA	NA	NA	NA
5.2: Monitoring & Decontamination of Emergency Workers, Equipment, & Vehicles	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5.3: Transportation and Treatment of Contaminated, Injured Individuals	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5.4: Traffic and Access Control	NA	NA	M	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	M

Table 3.1.10 Summary - Lake County Out-of-Sequence Activity

SITE: Perry Nuclear Power Plant DATE: September 28, 2022 M: Met L1: Level 1 Finding L2: Level 2 Finding P: Plan Issue NA: Not Applicable NS: Not Selected	Back-Up Route Alerting	Dosimetry Coordinator Rad Briefing Back-Up Route Alerting /Route Verification	Perry Local School District Interview - Dosimetry Coordinator Briefing	Perry Local School District School Interview
Objective 1: Emergency Operations Management Capability Targets				
1.1: Mobilization	NA	NA	NA	NA
1.2: Direction and Control	NA	NA	NA	NA
1.3: Protective Action Recommendations	NA	NA	NA	NA
1.4: Protective Action Decisions Plume Phase	NA	NA	NA	NA
1.5: Protective Action Decision Implementation Plume Phase	NA	NA	NA	M
1.6: Protective Action Decisions Post-Plume Phase	NA	NA	NA	NA
1.7: Protective Action Decision Implementation for the Post-Plume Phase	NA	NA	NA	NA
Objective 2: Exposure Control Capability Targets				
2.1: Emergency Worker Exposure Control Decision-Making Process	NA	NA	NA	NA
2.2: Emergency Worker Exposure Control Management	M	M	M	M
Objective 3: Alert and Notification Capability Targets				
3.1: Communications	M	NA	M	NA
3.2: Alert and Notification of the Public	M	NA	NA	NA
3.3: Emergency Information and Instructions Public and News Media	NA	NA	NA	NA
Objective 4: Detect, Measure, Sample, Analyze, and Assess Capability Targets				
4.1: Field Monitoring Teams Management	NA	NA	NA	NA
4.2: Plume Phase Measurements and Sampling	NA	NA	NA	NA
4.3: Post-Plume Phase Measurements and Sampling	NA	NA	NA	NA
4.4: Laboratory Operations	NA	NA	NA	NA
4.5: Plume Phase Analysis and Dose Assessment	NA	NA	NA	NA
4.6: Post-Plume Phase Sampling Plan Development and Analysis	NA	NA	NA	NA
Objective 5: Operate Capability Targets				
5.1: Monitoring, Decontamination, Sheltering, and Registration of Evacuees	NA	NA	NA	NA
5.2: Monitoring & Decontamination of Emergency Workers, Equipment, & Vehicles	NA	NA	NA	NA
5.3: Transportation and Treatment of Contaminated, Injured Individuals	NA	NA	NA	NA
5.4: Traffic and Access Control	NA	NA	NA	NA

3.2 Detailed Results of Exercise Evaluation

The Homeland Security Exercise and Evaluation Program methodology is an analytical process used to assess the demonstration of specific capabilities during an exercise. A capability provides a means to perform one or more Capability Targets under specified conditions and to specific performance standards. Core capabilities form the foundation of the Department of Homeland Security/Federal Emergency Management Agency Region 5 Radiological Emergency Preparedness Program evaluations. Each jurisdiction's standalone capability summaries are provided below.

3.2.1 State of Ohio In-Sequence

3.2.1.1 State Initial Notification Point - Watch Office

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the State Initial Notification - Watch Office is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.1.2 Assessment Room – Multi-Agency Radio Communication System (MARCS) Communication Check

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Assessment Room – MARCS Communication Check is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.1.3 State Emergency Operations Center - Dose Assessment Room

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.2 Direction and Control

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.3 Protective Action Recommendations

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.4 Proactive Action Decisions for the Public

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Critical Transportation; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 2.1 Emergency Worker Exposure Control Decision-Making Process

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 4.5 Plume Phase Analysis and Dose Assessment

Core Capabilities: Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the State Emergency Operations Center - Dose Assessment Room is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.1.4 State Emergency Operations Center – Emergency Support Function #10 - Operations Room

Capability Target: 2.1 Emergency Worker Exposure Control Decision-Making Process

**Core Capabilities: Operational Coordination; Environmental Response/Health and Safety;
Situational Assessment; Planning**

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the State Emergency Operations Center - Emergency Support Function #10 - Operations Room is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.1.5 State Emergency Operations Center - Assessment Room

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.2 Direction and Control

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 5.4 Traffic and Access Control

Core Capabilities: Critical Transportation; Access Control/Identity Verification; Environmental Response/Health and Safety; On-Scene Security, Protection, and Law Enforcement; Operational Coordination; Planning; Situational Assessment

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the State Emergency Operations Center Assessment Room is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.1.6 State Emergency Operations Center - Operations Room

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.2 Direction and Control

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the State Emergency Operations Center - Operations Room is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.1.7 State Emergency Operations Center - Executive Room

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

All activities described in the demonstration criterion were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.2 Direction and Control

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.3 Protective Action Recommendations

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.4 Proactive Action Decisions for the Public

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Critical Transportation; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 2.1 Emergency Worker Exposure Control Decision-Making Process

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.3 Emergency Information and Instructions for the Public and News Media

Core Capabilities: Public Information and Warning; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 4.5 Plume Phase Analysis and Dose Assessment

Core Capabilities: Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the State Emergency Operations Center - Executive Room is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.1.8 State Emergency Operations Center – Joint Information Center Public Inquiry

Capability Target: 3.3 Emergency Information and Instructions for the Public and News Media

Core Capabilities: Public Information and Warning; Planning

All activities described in the Capacity Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the State Emergency Operations Center – Joint Information Center Public Inquiry is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.1.9 State Emergency Operations Center - Joint Information Center Room

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.3 Emergency Information and Instructions for the Public and News Media

Core Capabilities: Public Information and Warning; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the State Emergency Operations Center – Joint Information Center Room is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.1.10 Public Information/Media Briefings

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.2 Direction and Control

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.3 Emergency Information and Instructions for the Public and News Media
Core Capabilities: Public Information and Warning; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Public Information/Media Briefings is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.1.11 State of Ohio Public Information Officer – Perry Nuclear Power Plant Joint Information Center

Capability Target: 3.3 Emergency Information and Instructions for the Public and News Media
Core Capabilities: Public Information and Warning; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the State of Ohio Public Information Officer - Perry Nuclear Power Plant Joint Information Center is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.1.12 State Liaison Officer at State of Ohio Emergency Operations Facility

Capability Target: 1.1 Mobilization
Core Capabilities: Operational Coordination; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.2 Direction and Control
Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication
Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the State Liaison Officers at the State of Ohio Emergency Operations Facility is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.1.13 State Liaison Officers at the Lake County Emergency Operations Center

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.2 Direction and Control

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the State Liaison at the Lake County Emergency Operations Center is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.2 State of Ohio Out-of-Sequence

3.2.2.1 Field Monitoring Team Coordinator/Dosimetry Coordinator Briefing

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 4.1 Field Monitoring Teams Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for Field Team Center Coordinator/Dosimetry Coordinator Briefing is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.2.2 Sample Screening Point/ Field Monitoring Team Courier 21

Capability Target: 4.2 Plume Phase Measurements and Sampling

Core Capabilities: Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for Sample Screening Point/ Field Monitoring Team Courier is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.2.3 Field Monitoring Team #13

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and the extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and the extent-of-play agreement.

Capability Target: 4.2 Plume Phase Measurements and Sampling

Core Capabilities: Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and the extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for Field Monitoring Team #13 is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.2.4 Field Monitoring Team #14

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 4.2 Plume Phase Measurements and Sampling

Core Capabilities: Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for Field Monitoring Team #14 is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.2.5 Primary Alert & Notification - Lake Erie: Dosimetry Coordinator Briefing/KI Distribution Ohio Department of Natural Resources Radiological Briefing

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Primary A&N - Lake Erie: Dosimetry Coordinator Briefing/KI Distribution ODNr RAD Briefing is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.2.6 Primary Alert & Notification - Lake Erie: Ohio Department of Natural Resources Interview

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.2 Direction and Control

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.2 Alert and Notification to the Public

Core Capabilities: Public Information and Warning; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Primary Alert & Notification - Lake Erie: Ohio Department of Natural Resources Interview is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.3 Ashtabula County In-Sequence

3.2.3.1 Initial Warning Point

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.2 Alert and Notification to the Public

Core Capabilities: Public Information and Warning; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Initial Warning Point is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.3.2 Emergency Operations Center - Multi-Agency Radio Communication System (MARCS) Communication Check

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for Emergency Operations Center - MARCS Communication Check is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.3.3 Emergency Operations Center

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

All activities described in the Capability Targets were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.2 Direction and Control

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.5 Proactive Action Decision Implementation for the Plume Phase

Core Capabilities: Operational Coordination; Public Information and Warning; Environmental Response/Health and Safety; Critical Transportation; Health and Social Services; Housing; Natural and Cultural Resources; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 5.4 Traffic and Access Control

Core Capabilities: Critical Transportation; Access Control/Identity Verification; Environmental Response/Health and Safety; On-Scene Security, Protection, and Law Enforcement; Operational Coordination; Planning; Situational Assessment

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Emergency Operations Center is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.3.4 Emergency Operations Center - Executive Room

Capability Target: 1.2 Direction and Control

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.4 Proactive Action Decisions for the Public

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Critical Transportation; Planning.

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 2.1 Emergency Worker Exposure Control Decision-Making Process

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Emergency Operations Center - Executive Room is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.3.5 Emergency Operations Center – Public Information Officer

Capability Target: 3.3 Emergency Information and Instructions for the Public and News Media

Core Capabilities: Public Information and Warning; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Emergency Operations Center – Public Information Officer is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.4 Ashtabula County Out-of-Sequence

3.2.4.1 Dosimetry Coordinator Briefing: Back-Up Route Alerting

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Dosimetry Coordinator Briefing: Back-Up Route Alerting is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.4.2 Back-Up Route Alerting

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.2 Alert and Notification to the Public

Core Capabilities: Public Information and Warning; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Back-Up Route Alerting is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.4.3 Ashtabula County Public Information Officer - Perry Nuclear Power Plant Joint Information Center

Capability Target: 3.3 Emergency Information and Instructions for the Public and News Media

Core Capabilities: Public Information and Warning; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Ashtabula County Public Information Officer – Perry Nuclear Power Plant Joint Information Center is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.4.4 Traffic and Access Control Point - Dosimetry Coordinator Briefing

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Traffic and Access Control Point - Dosimetry Coordinator Briefing is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.4.5 Traffic and Access Control Point - Dosimetry Coordinator Interview

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 5.4 Traffic and Access Control

Core Capabilities: Critical Transportation; Access Control/Identity Verification; Environmental Response/Health and Safety; On-Scene Security, Protection, and Law Enforcement; Operational Coordination; Planning; Situational Assessment

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Traffic Control Point/Access Control Point - Dosimetry Coordinator Interview is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.4.6 Monitoring and Decontamination - Emergency Workers: Dosimetry Coordinator Radiological Briefing

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Monitoring and Decontamination - Emergency Workers: Dosimetry Coordinator Rad Briefing is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.4.7 Monitoring and Decontamination - Emergency Workers

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

As part of the Perry Nuclear Power Plant Full Participation, Plume Exposure Pathway, Hostile Action

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 5.2 Monitoring and Decontamination of Emergency workers, Equipment, and Vehicles

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Monitoring and Decontamination - Emergency Workers is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.4.8 Monitoring and Decontamination - Emergency Worker Vehicles

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 5.2 Monitoring and Decontamination of Emergency workers, Equipment, and Vehicles

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Monitoring and Decontamination - Emergency Worker Vehicles is as follows:

L2 Finding 47-22-5.2-L2-001

Description

As part of the Ashtabula County demonstration, the Conneaut City Fire Department personnel demonstrated the capability to monitor and decontaminate vehicles at the Lakeside Junior High School. One vehicle was used for the demonstration. It was intended that the vehicle would be monitored, any contamination would be identified, and the staff would decontaminate it so it could be released back into service.

The contamination was located on the front door driver side door. The initial radiation level was 1500 counts per minute for this exercise. After the first decontamination attempt the level of radiation was at background.

Condition

The question was raised on what the decontamination threshold would have to be when decontamination was required to be performed before it could be placed back into service.

Possible Cause

Previous training for the staff manning the Monitoring and Decontamination Emergency Worker Vehicles Station may not have been successful.

Reference

2022 Ashtabula County Attachments, Attachment 27, Rev. 01/2020, Page 18 and 20.

Effect

It would have been possible for a vehicle to be put back in service with radiation levels higher than allowed in the plan. This could have caused an increased dose to individuals who use that vehicle in the future.

Recommendation**Corrective Action Demonstrated**

Due to the lack of an answer for the decontamination threshold for an Emergency Worker vehicle during this part of the evaluation from the staff members, the evaluator requested a retraining and re-demonstration of a contaminated spot on the vehicle. The controller agreed.

The controller took about five minutes to retrain the staff. After the retraining, the Vehicle/Equipment Monitor explained that if the reading was greater than 30,000 counts per minute the vehicle would be removed from service. If the reading was below 300 counts per minute, the vehicle could be returned to service. During an interview about a vehicle coming into the station with initial meter readings of 200 counts per minute the Vehicle/Equipment Monitor explained that no decontamination was necessary, and the vehicle could be put back in service. He also explained that if the vehicle could not be decontaminated below the 300 counts per minute level and the vehicle was required to be placed back into service, they would cover the area with plastic or paper over the spot and secure with tape. After the additional training and discussion all staff were clear that the decontamination threshold was 300 counts per minute.

The individuals at the station with the controller concluded by identifying and discussing possible improvements with monitoring and vehicle decontamination process and some aides that would be helpful for the future.

Upon completion of the re-training, the evaluation was completed without error. As a result, the Level 2 Finding has been closed and the Capability Target has been met.

MET: The Capability Target and Core Capability 2.2 Emergency Worker Exposure Control Management identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.5 Geauga County In-Sequence**3.2.5.1 Initial Notification Point****Capability Target: 1.1 Mobilization****Core Capabilities: Operational Coordination; Planning**

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication**Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning**

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.2 Alert and Notification to the Public**Core Capabilities: Public Information and Warning; Planning**

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Initial Warning Point is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.5.2 Emergency Operations Center - Multi-Agency Radio Communication System (MARCS) Communication Check

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for Emergency Operations Center - MARCS Communication Check is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.5.3 Emergency Operations Center

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.2 Direction and Control

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.5 Proactive Action Decision Implementation for the Plume Phase

Core Capabilities: Operational Coordination; Public Information and Warning; Environmental Response/Health and Safety; Critical Transportation; Health and Social Services; Housing; Natural and Cultural Resources; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 5.4 Traffic and Access Control

Core Capabilities: Critical Transportation; Access Control/Identity Verification; Environmental Response/Health and Safety; On-Scene Security, Protection, and Law Enforcement; Operational Coordination; Planning; Situational Assessment

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Emergency Operations Center is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.5.4 Emergency Operations Center - Executive Room

Capability Target: 1.2 Direction and Control

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.4 Proactive Action Decisions for the Public

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Critical Transportation; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 2.1 Emergency Worker Exposure Control Decision-Making Process

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Planning.

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Emergency Operations Center - Executive Room is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.5.5 Emergency Operations Center – Public Information Officer

Capability Target: 3.3 Emergency Information and Instructions for the Public and News Media

Core Capabilities: Public Information and Warning; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Emergency Operations Center – Public Information Officer is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.5.5 Geauga County Public Information Officer – Perry Nuclear Power Plant Joint Information Center

Capability Target: 3.3 Emergency Information and Instructions for the Public and News Media

Core Capabilities: Public Information and Warning; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.5.6 Traffic and Access Control Point - Dosimetry Coordinator Briefing

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Traffic and Access Control Point - Dosimetry Coordinator Briefing is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.5.7 Traffic and Access Control Point - Dosimetry Coordinator Interview

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 5.4 Traffic and Access Control

Core Capabilities: Critical Transportation; Access Control/Identity Verification; Environmental Response/Health and Safety; On-Scene Security, Protection, and Law Enforcement; Operational Coordination; Planning; Situational Assessment

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Traffic and Access Control Point - Dosimetry Coordinator Interview is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.6 Geauga County Out-of-Sequence

3.2.6.1 Monitoring and Decontamination - Evacuee: Dosimetry Coordinator Radiological Briefing

Capability Target: 1.2 Direction and Control

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-plan agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Monitoring and Decontamination - Evacuee: Dosimetry Coordinator Rad Briefing is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.6.2 Monitoring and Decontamination - Evacuee

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 5.1 Monitoring, Decontamination, Sheltering, and Registration of Evacuees

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Mass Care; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Monitoring and Decontamination - Evacuee is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.6.3 Monitoring and Decontamination - Evacuee Vehicles

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 5.1 Monitoring, Decontamination, Sheltering, and Registration of Evacuees

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Mass Care; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Monitoring and Decontamination - Evacuee Vehicles is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.6.4 Reception Center - Registration

Capability Target: 5.1 Monitoring, Decontamination, Sheltering, and Registration of Evacuees

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Mass Care; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Reception Center - Registration is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.6.5 Congregate Care Center

Capability Target: 5.1 Monitoring, Decontamination, Sheltering, and Registration of Evacuees

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Mass Care; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Congregate Care Center is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.7 Lake County In-Sequence

3.2.7.1 Initial Notification Point

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

All Activities described in the Capability Target were carried out in accordance with the plan, procedures, and the extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Initial Notification Point is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.7.2 Emergency Operations Center- Multi-Agency Radio Communication System (MARCS) Communication Check

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Emergency Operations Center - MARCS Communication Check is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.7.3 Emergency Operations Center - Lake County

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.2 Direction and Control

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.5 Proactive Action Decision Implementation for the Plume Phase

Core Capabilities: Operational Coordination; Public Information and Warning; Environmental Response/Health and Safety; Critical Transportation; Health and Social Services; Housing; Natural and Cultural Resources; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.2 Alert and Notification to the Public

Core Capabilities: Public Information and Warning; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 5.4 Traffic and Access Control

Core Capabilities: Critical Transportation; Access Control/Identity Verification; Environmental Response/Health and Safety; On-Scene Security, Protection, and Law Enforcement; Operational Coordination; Planning; Situational Assessment

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Emergency Operations Center - Lake County is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.7.4 Emergency Operations Center - Executive Group

Capability Target: 1.2 Direction and Control

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.4 Proactive Action Decisions for the Public

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Critical Transportation; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.5 Proactive Action Decision Implementation for the Plume Phase

Core Capabilities: Operational Coordination; Public Information and Warning; Environmental Response/Health and Safety; Critical Transportation; Health and Social Services; Housing; Natural and Cultural Resources; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Emergency Operations Center - Executive Group is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.7.5 Emergency Operations Center – Public Information Officer

Capability Target: 3.3 Emergency Information and Instructions for the Public and News Media

Core Capabilities: Public Information and Warning; Planning

All Activities described in the Capability Target were carried out in accordance with the plan, procedures, and the extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.7.6 Lake County Public Information Officer – Perry Nuclear Power Plant Joint Information Center

Capability Target: 3.3 Emergency Information and Instructions for the Public and News Media

Core Capabilities: Public Information and Warning; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Lake County Public Information Officer – Perry Nuclear Power Plant Joint Information Center is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.7.7 Lake County Field Monitor Team Dosimetry Coordinator Briefing - Dosimetry Distribution

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Lake County Field Monitor Team Dosimetry Coordinator Briefing - Dosimetry Distribution is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.7.8 Lake County Field Monitor Team Coordinator

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures and extent-of-play agreement.

Capability Target: 4.1 Field Monitoring Teams Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Lake County Field Monitor Team Coordinator is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.7.9 Lake County Communicator

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Lake County Communicator is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.7.10 Field Monitoring Team #1

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 4.2 Plume Phase Measurements and Sampling

Core Capabilities: Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for Field Monitoring Team #1 is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.7.11 Field Monitoring Team #2

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and the extent-of-play agreement.

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and the extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and the extent-of-play agreement.

Capability Target: 4.2 Plume Phase Measurements and Sampling

Core Capabilities: Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and the extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for Field Monitoring Team #2 is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.7.12 Reception Center-Registration

Capability Target: 5.1 Monitoring, Decontamination, Sheltering, and Registration of Evacuees

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Mass Care; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Reception Center-Registration is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.7.13 Congregate Care Center

Capability Target: 5.1 Monitoring, Decontamination, Sheltering, and Registration of Evacuees

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Mass Care; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Congregate Care Center is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.7.14 Monitoring and Decontamination -Evacuee: Dosimetry Coordinator Radiological Briefing

Capability Target: 1.2 Direction and Control

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Monitoring and Decontamination - Evacuee: Dosimetry Coordinator Rad Briefing is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.7.15 Monitoring and Decontamination - Evacuee

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 5.1 Monitoring, Decontamination, Sheltering, and Registration of Evacuees

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Mass Care; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Monitoring and Decontamination - Evacuee is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.7.16 Monitoring and Decontamination - Evacuee Vehicles

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 5.1 Monitoring, Decontamination, Sheltering, and Registration of Evacuees

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Mass Care; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Monitoring and Decontamination - Evacuee Vehicles is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.7.17 Incident Command

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.2 Direction and Control

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.4 Proactive Action Decisions for the Public

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Critical Transportation; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Incident Command is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.7.18 Mobile Command

Capability Target: 1.1 Mobilization

Core Capabilities: Operational Coordination; Planning

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

All activities described in the demonstration criterion were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 1.2 Direction and Control

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

All activities described in the demonstration criterion were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the demonstration criterion were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the demonstration criterion were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.7.19 Traffic and Access Control Point - Dosimetry Coordinator Briefing

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Traffic and Access Control Point - Dosimetry Coordinator Briefing is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.7.20 Traffic and Access Control Point - Interview

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 5.4 Traffic and Access Control

Core Capabilities: Critical Transportation; Access Control/Identity Verification; Environmental Response/Health and Safety; On-Scene Security, Protection, and Law Enforcement; Operational Coordination; Planning; Situational Assessment

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Traffic and Access Control Point - Interview is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.8 Lake County Out-of-Sequence

3.2.8.1 Back-Up Route Alerting

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.2 Alert and Notification to the Public

Core Capabilities: Public Information and Warning; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Back-Up Route Alerting is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.8.2 Dosimetry Coordinator Rad Briefing Back-Up Route Alerting/Route Verification

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the Dosimetry Coordinator Rad Briefing Back-Up Route Alerting/Route Verification is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.8.3 Perry School District School Interview - Dosimetry Coordinator Briefing

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 3.1 Communication

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the School Interview is as follows:

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

3.2.8.4 Perry School District School Interview

Capability Target: 1.5 Proactive Action Decisions for the Public

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Critical Transportation; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

Capability Target: 2.2 Emergency Worker Exposure Control Management

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

All activities described in the Capability Target were carried out in accordance with the plan, procedures, and extent-of-play agreement.

In summary, the status of Department of Homeland Security/Federal Emergency Management Agency evaluated Capability Target and Core Capabilities for the School Interview is as follows:

UNCLASSIFIED

MET: The Capability Target and Core Capabilities identified in the Department of Homeland Security/Federal Emergency Management Agency approved extent-of-play agreement.

UNCLASSIFIED

Section 4: Conclusion

The Department of Homeland Security/Federal Emergency Management Agency assesses offsite response organization preparedness on an ongoing basis which meets the intent of the 44 CFR §350 planning standards and, through the assessment of selected core capabilities, the National Preparedness Goal.

The analysis of capabilities in Section 3 described the State of Ohio offsite response capabilities. Overall, the exercise was a success. The demonstration-based assessment activities evaluated by core capabilities, objectives, and Capability Targets were successfully demonstrated, with the exception of the Level 2 Finding in Ashtabula County. The Capability Target was re-demonstrated and corrected on the spot. As a result, the Level 2 Finding has been closed (p.33). All offsite response organizations demonstrated knowledge of their emergency response plans and procedures, and successfully demonstrated the ability to protect the health and safety of the public in the event of an incident involving the Perry Nuclear Power Plant.

In addition, the State of Ohio offsite response organizations completed this exercise during the SARS-CoV-2/COVID-19 pandemic. The state and counties innovatively and successfully implemented and used technology to ensure sufficient support and response, while also protecting their workforces. The integration of tele- and videoconferencing not only allowed all players to participate and enhanced the operational communication capability within the state. The lessons learned and best practices gained through the implementation and use of new technology should be documented in emergency response plans and procedures.

Based on the results of this exercise and Department of Homeland Security/Federal Emergency Management Agency's review of the 2021 Annual Letter of Certification submitted by the State of Ohio, the offsite radiological emergency response plans and preparedness of the State of Ohio and the affected local jurisdictions site-specific to the Perry Nuclear Power Plant can be implemented. They are adequate to provide reasonable assurance that appropriate measures can be taken offsite to protect the health and safety of the public in the event of an emergency at the site. The Title 44 CFR, Part §350 approval of the offsite radiological emergency response plans and preparedness site-specific to the Perry Nuclear Power Plant will remain in effect.

Despite the current pandemic and other ongoing real-world response efforts, the professionalism and teamwork of the participants was evident throughout all phases of the exercise. The Department of Homeland Security/Federal Emergency Management Agency wishes to acknowledge the efforts of the many individuals who participated and made this exercise a success.

Section 5: Improvement Plan

This appendix summarizes the results from the of the evaluation of all jurisdictions and functional entities that participated in the September 27, 2022, Perry Nuclear Power Plant Full Participation, Plume Exposure Pathway, Hostile Action Based, Radiological Emergency Preparedness Exercise to test the offsite emergency response capabilities of State and local governments in the 10-mile Emergency Planning Zone surrounding the Perry Nuclear Power Plant.

The Department of Homeland Security/Federal Emergency Management Agency evaluation team identified one Level 2 Finding 5.2 (47-22-5.2-L2-001) for Ashtabula County. The Level 2 Finding (described in Section 3.2.4.8 of this report and summarized below) concerned monitoring of an emergency workers vehicle. Capability Target 5.2 was successfully redemonstrated during the exercise. Remedial training and redemonstration successfully resolved Finding 47-22-5.2-L2-001 on September 28, 2022, prior to conclusion of the overall activity. Consequently, the issue identified was classified as a Level 2 Finding that was immediately corrected, and Capability Target 5.2 is shown as Met in Table 3.1.6. The Level 2 Finding is officially closed.

5.2: Finding 47-22-5.2-L2-001

Description

As part of the Ashtabula County demonstration, the Conneaut City Fire Department personnel demonstrated the capability to monitor and decontaminate vehicles at the Lakeside Junior High School. One vehicle was used for the demonstration. It was intended that the vehicle would be monitored, any contamination would be identified, and the staff would decontaminate it so it could be released back into service.

The contamination was located on the front door driver side door. The initial radiation level was 1500 counts per minute for this exercise. After the first decontamination attempt the level of radiation was at background.

Condition

The question was raised on what the decontamination threshold would have to be when decontamination was required to be performed before it could be placed back into service.

Possible Cause

Previous training for the staff manning the Monitoring and Decontamination Emergency Worker Vehicles Station may not have been successful.

Reference

2022 Ashtabula County Attachments, Attachment 27, Rev. 01/2020, Page 18 and 20.

Effect

It would have been possible for a vehicle to be put back in service with radiation levels higher than allowed in the plan. This could have caused an increased dose to individuals who use that vehicle in the future.

Recommendation

Corrective Action Demonstrated

Due to the lack of an answer for the decontamination threshold for an EW vehicle during this part of the evaluation from the staff members, the evaluator requested a retraining and re-demonstration of a contaminated spot on the vehicle. The controller agreed.

The controller took about five minutes to retrain the staff. After the retraining, the Vehicle/Equipment Monitor explained that if the reading was greater than 30,000 counts per minute the vehicle would be removed from service. If the reading was below 300 counts per minute, the vehicle could be returned to service. During an interview about a vehicle coming into the station with initial meter readings of 200 counts per minute the Vehicle/Equipment Monitor explained that no decontamination was necessary, and the vehicle could be put back in service. He also explained that if the vehicle could not be decontaminated below the 300 counts per minute level and the vehicle was required to be placed back into service, they would cover the area with plastic or paper over the spot and secure with tape. After the additional training and discussion all staff were clear that the decontamination threshold was 300 counts per minute.

The individuals at the station with the controller concluded by identifying and discussing possible improvements with monitoring and vehicle decontamination process and some aides that would be helpful for the future.

Appendix A: Exercise Timeline

Date and Site: September 27, 2022 - Perry Nuclear Power Plant

Emergency Classification Level Event or Action	Time Utility Declared	Times listed are Eastern Daylight Time that Notifications were received, or actions were taken										Incident Command Post	JIC PNPP
		EOF	SEOC DOSE Assessment	SEOC EXEC	SEOC OPS	SEOC Watch/ Assessment	SEOC JIC	Lake County	Geauga County	Ashtabula County	Mobile Command		
911 Notification	NA	NA	NA	0756	NA	NA	NA	0738	NA	NA	NA	NA	NA
Alert:	0745	NA	0755	0755	0753	0753	0756	0800	0750	0751	NA	NA	NA
Site Area Emergency:	0756	0811	0805	0805	0801	0801	0758	0805	0805	0805	0804	0804	0836
General Emergency:	1019	1020	1022	1022	1039	1039	1037	1036	1036	1036	1109	1109	1020
Release of Radioactive Materials Started:	1026	1033	1038	1038	1104	1101	1037	1045	1045	1045	1109	1109	NA
Facility Declared Operational:		0848	0847	0823	0823	0823	0825	0819	0814	0809	NA	0903	0923
Declaration of State/Local Emergency:		0907	0845	0845	0846	NA	0846	0818	0818	0809	NA	0856	0852
Exercise Terminated		1156	1242	1250	1245	1245	1240	1213	1207	1200	1203	1201	1226
Early Precautionary Action Recommendations:													
1. Relocate School Children:		NA	1038	0909	1035	NA	0909	0836	NA	0820	NA	0811	0909
2. Restrict Boating Traffic:		0900	0845	0834	0838	0834	0834	0836	0836	0820	NA	0851	0927
3. Restrict Air and Rail Traffic:		NA	0845	0832	0838	0832	0834	0836	0836	0836	NA	NA	0927
4. Close Parks:		0900	0845	0836	0838	0836	0836	0836	0836	0836	NA	NA	
5. Livestock Advisory		0900	0845	0837	0838	0837	0834	0911	0911	0911	NA	0945	0939
General Information Message Only: “JIC Activation / Precautionary Action”		0927	0922	0846	NA	NA	NA	0923	0923	0923	NA	1056	NA
1st Protective Action Recommendation: Evac SA 1 State PAR[s] to County:		1211	1058	1058	1104	1101	1058	1058	1058	1058	NA	1101	NA
1st Protective Action Decision[s]-County PAD[s]: ☑ Evacuate Sub-Areas: 1, 2, 3, and Lake DRD Correction Values: 5R→ __R; 3R→ __R; 1 R→1 R		1213 1232	1100 1120	1100 1120	1104 1129	1101 NA	1100 NA	1100	1100	1100	NA	NA	NA
2nd Siren Activation:		NA	1110	1110	1110	1110	1110	1110	1110	1110	NA	NA	1110
2nd EAS/EBA Message:		NA	1113	1113	1113	1113	1113	1113	1113	1113	NA	NA	1113

UNCLASSIFIED

Event/Action	Times listed are Eastern Daylight Time that Notifications were received, or actions were taken											
	EOF	SEOC DOSE Assessment	SEOC EXEC	SEOC OPS	SEOC Watch/ Assessment	SEOC JIC	Lake County	Geauga County	Ashtabula County	Mobile Command	Incident Command Post	JIC PNPP
KI Administration Recommendation:	NA	1100	1100	1100	NA	1100	1100	1100	1100	1056	1056	1113
Emergency Workers: <input checked="" type="checkbox"/> PAR/PAD: Sub-Area[s]	1211	1100	1100	1100	NA	1100	1100	1100	1100	NA	NA	NA
<i>Institutionalized Persons:</i> <input checked="" type="checkbox"/> <i>PAR/PAD:</i> Sub-Area[s]	1211	1100	1100	1100	NA	1100	1100	1100	1100	NA	NA	NA
General Public: <input checked="" type="checkbox"/> PAR/PAD: Sub- Area[s]	1211	1100	1100	1100	NA	1100	1100	1100	1100	NA	NA	NA

Appendix B: Participating Organizations

Federal Organizations

Federal Bureau of Investigation
Nuclear Regulatory Commission
U.S. Coast Guard
U.S. Department of Homeland Security/Federal Emergency Management Agency

State of Ohio

Civil Air Patrol, Ohio Wing
Ohio Department of Administrative Services
Ohio Department of Agriculture
Ohio Department of Education
Ohio Department of Health
Ohio Department of Jobs and Family Services
Ohio Department of Natural Resources
Ohio Department of Public Safety
Ohio Department of Transportation
Ohio Emergency Management Agency
Ohio Emergency Medical Services
Ohio Environmental Protection Agency
Ohio Fire Chiefs' Association
Ohio Geographically Referenced Information Program
Ohio National Guard
Ohio State Highway Patrol
Ohio State University Extension
Public Utilities Commission of Ohio
State Fire Marshal

Ashtabula County

Ashtabula County Emergency Management Agency
Ashtabula County Sheriff's Office
Ashtabula Fire Department
Ashtabula Township Fire Department
Conneaut Fire Department
Geneva Fire Department
Saybrook Fire Department

Geauga County

Geauga County Department of Emergency Services
Geauga County Sheriff's Office
Munson Fire Department
Newbury Fire Department

Lake County

Lake County Emergency Management Agency
Lake County Sheriff's Office
Lake County General Health Department
Willoughby Fire Department
Mentor Fire Department
Perry School District

Private Organizations

Amateur Radio Emergency Service
American Red Cross
Energy Harbor
Michigan Environment, Great Lakes, and Energy

Appendix C: Evaluation Team

Exercise Management	Name	Agency/ Organization
Chair, Regional Assistance Committee	Sean O’Leary	DHS/FEMA
Exercise Director	Edward Golinski	DHS/FEMA
Assistant Exercise Director	Carl Bebrich	DHS/FEMA
Ohio Site Specialist	Brian Reinhart	DHS/FEMA
Team Leader- State of Ohio	Todd Gemske	DHS/FEMA
Team Leader – Ashtabula County	James King	DHS/FEMA
Team Leader – Geauga County	Curtis Williams	DHS/FEMA
Team Leader – Lake County	Edward Diaz	DHS/FEMA
Contractor Evaluator Support – Regional Coordinator	Marcy Campbell	ICFI
Contractor Scenario Technical Reviewer	Jill Leatherman	ICFI

Evaluated Offsite Response Organizations/Locations	Evaluator	Agency/ Organization
State of Ohio		
Ohio - INP	William McDougal	ICFI
Ohio – Assessment Room – MARCS Communication Check	Edward Golinski	DHS/FEMA
Ohio – SEOC – Dose Assessment Room	Deborah Blunt	ICFI
Ohio – SEOC – Dose Assessment Room	Jill Leatherman	ICFI
Ohio – SEOC – ESF #10 – Operations Room	Jill Leatherman	ICFI
Ohio – SEOC – Assessment Room	Kevin Reed	ICFI
Ohio – SEOC – Operations Room	William McDougal	ICFI
Ohio – SEOC – Executive Room	Todd Lawson	DHS/FEMA
Ohio – SEOC – JIC Public Inquiry	Peter Judge	ICFI
Ohio – SEOC – JIC	Peter Judge	ICFI
Ohio – Public Information/Media Briefings	Margert Swearingen	ICFI
Ohio – Ohio PIO – PNPP JIC	Thomas Hegle	ICFI
Ohio – State LNOs @ PNPP EOF	Marcy Campbell	ICFI
Ohio – State LNOs @ Lake County Emergency Operations Center	Todd Trygier	DHS/FEMA
Ohio - ODNR Primary A&N – Lake Erie	Tom Essig	ICFI
Ashtabula County		
Ashtabula County – Emergency Operations Center – Initial Notification Point	Michael Burris	ICFI
Ashtabula County – Emergency Operations Center – MARCS Communication Check	Edward Golinski	DHS/FEMA
Ashtabula County – Emergency Operations Center	Gary Goldberg	ICFI
Ashtabula County – Emergency Operations Center	Rosemary Samsel	ICFI
Ashtabula County – Emergency Operations Center – Executive Room	Roger Winkelmann	ICFI
Ashtabula County – Emergency Operations Center – PIO	Michael Burris	ICFI

UNCLASSIFIED

Ashtabula County – PIO – PNPP JIC	Thomas Hegele	ICFI
Ashtabula County – Back-up Route Alerting	Herb Massie	ICFI
Ashtabula County – TACP/ACP	Gary Goldberg	ICFI
Ashtabula County – Mon/Decon EW Dosimetry Coordinator Rad Briefing	Richard Smith	ICFI
Ashtabula County – Monitoring and Decontamination EW	Richard Smith	ICFI
Ashtabula County – Monitoring and Decontamination EW Vehicle	Todd Trygier	DHS/FEMA
Geauga County		
Geauga County – Initial Notification Point	James Hickey	ICFI
Geauga County – Emergency Operations Center – MARCS Communication Check	Edward Golinski	DHS/FEMA
Geauga County – Emergency Operations Center	Terry Blackman	ICFI
Geauga County – Emergency Operations Center	Bridget Ahlgrim	ICFI
Geauga County – Emergency Operations Center – Executive Room	Lynn Steffensen	ICFI
Geauga County – Emergency Operations Center – PIO	James Hickey	ICFI
Geauga County – Traffic and Access Control Point	Terry Blackman	ICFI
Geauga County – PIO – PNPP JIC	Thomas Hegele	ICFI
Geauga County – Mon/Decon – Evacuee Dosimetry Coordinator Rad Briefing	Thomas Gahan	ICFI
Geauga County – Mon/Decon – Evacuee	Carol Shepard	ICFI
Geauga County – Mon/Decon – Evacuee Vehicle	Ronald Schmitt	ICFI
Geauga County – Reception Center	Thomas Gahan	ICFI
Geauga County – Congregate Care Center	Thomas Gahan	ICFI
Lake County		
Lake County – Initial Notification Point	Paul Nied	ICFI
Lake County – Emergency Operations Center – MARCS Communication Check	Edward Golinski	DHS/FEMA
Lake County – Emergency Operations Center	Steve Watts	ICFI
Lake County – Emergency Operations Center	Thomas Reynolds	ICFI
Lake County – Emergency Operations Center – Executive Group	Mark Dalton	ICFI
Lake County – Emergency Operations Center– PIO	Paul Nied	ICFI
Lake County – PIO – PNPP JIC	Thomas Hegele	ICFI
Lake County – FMT Dosimetry Coordinator Briefing/Dosimetry Distribution	Dennis Wilford	ICFI
Lake County – FMT Coordinator	Dennis Wilford	ICFI
Lake County – FMT Communicator	Dennis Wilford	ICFI
Lake County – Field Monitoring Team #1	Cheryl Weaver	ICFI
Lake County – Field Monitoring Team #2	John Wicjorek	ICFI
Lake County – Reception Center	Thomas Gahan	ICFI
Lake County – Congregate Care	Thomas Gahan	ICFI
Lake County – Mon/Decon – Evacuee Dosimetry Coordinator Rad Briefing	Thomas Gahan	ICFI
Lake County – Mon/Decon – Evacuee	Carol Shepard	ICFI
Lake County – Mon/Decon – Evacuee Vehicle	Ronald Schmitt	ICFI

UNCLASSIFIED

Lake County – Perry School Interview – Dosimetry Coordinator Briefing	Tom Essig	ICFI
Lake County – Perry School Interview	Tom Essig	ICFI
Lake County – Back-up Route Alerting	Herb Massie	ICFI

Appendix D: Acronyms and Abbreviations

ACRONYM	DESCRIPTION
CFR	Code of Federal Regulations
DC	Dosimetry Coordinator
DES	Department of Emergency Services
DHS	Department of Homeland Security
DRD	Direct Reading Dosimeter
EAS	Emergency Alert System
ECL	Emergency Classification Level
EMA	Emergency Management Agency
EOC	Emergency Operations Center
EOF	Emergency Operations Facility
EPZ	Emergency Planning Zone
ESF	Emergency Support Function
EW	Emergency Worker
FEMA	Federal Emergency Management Agency
FMT	Field Monitoring Team
FMTC	Field Monitoring Team Courier
IP	Improvement Plan
JIC	Joint Information Center
KI	Potassium Iodide
LCGHD	Lake County General Health District
LNO	Liaison Officer
MARCS	Multi-Agency Radio Communications System
No.	Number
NRC	Nuclear Regulatory Commission
ODNR	Ohio Department of Natural Resources
ODOT	Ohio Department of Transportation
ODPS	Ohio Department of Public Safety
Ohio EMA	Ohio Emergency Management Agency
OEPA	Ohio Environmental Protection Agency
ORO	Offsite Response Organizations
OSHP	Ohio State Highway Patrol
PAD	Protective Action Decision
PAR	Protective Action Recommendation
PIO	Public Information Officer
PNPP	Perry Nuclear Power Plant
PUCO	Public Utilities Commission of Ohio
RAC	Regional Assistance Committee
RAD	Radiological
REP	Radiological Emergency Preparedness

ACRONYM	DESCRIPTION
SEOC	State Emergency Operations Center
TACP	Traffic and Access Control Point
TEDE	Total Effective Dose Equivalent
U.S.	United States
USCG	United States Coast Guard

Appendix E: Onsite/Offsite Scenario Timeline

Perry Nuclear Power Plant Evaluated Exercise Onsite / Offsite Scenario Conditions September 27, 2022

Color Key:
BOLD BLUE - ECL Declarations **Blue** - Utility Actions **Purple** - County Actions
BOLD BLACK - Start of Release **Red** - State Actions

Note: The timing of State's and County's expected actions, as listed, is flexible and may not be performed in the order shown.

Approximate Time	State of Ohio Expected Actions	Ashtabula County Expected Actions	Geauga County Expected Actions	Lake County Expected Actions
Initial Friday dayshift. Currently 100% power. Meteorological Conditions Wind is 8 mph from 331° Clear skies Stability Class F Other Schools are in session. Dry cask fuel campaign is in progress.				
7:30 AM	StartEx at PNPP			
7:36 AM	A hostile attack in the Owner Controlled Area (OCA) is reported.			
7:40 AM	The reactor scrams.			
7:42 AM	Off-site explosion causes Loss of Off-site Power. Div. 3 Diesel fails to power bus due to failure of breaker.			
7:43 AM	Explosion reported southwest of the site.			
		Sheriff's Office is notified of the hostile action.	Sheriff's Office is notified of the hostile action.	Sheriff's Office is notified of the hostile action.
		Ashtabula County EOC begins to activate.	Geauga County EOC begins to activate.	Lake County EOC begins to activate.
		Ashtabula County notified of Incident Command activation.	Geauga County notified of Incident Command activation.	Lake County activates Incident Command and notifies Ashtabula and Geauga County of activation.
7:46 AM	Two adversaries neutralized in OCA. OCA patrol is wounded.			
7:48 AM	Four armed adversaries enter the Protected Area heading towards the Fuel Handling Building (FHB). One is neutralized.			
7:51 AM	PNPP declares an ALERT due to HA1.1, "A hostile action is occurring or has occurred within the Owner Controlled Area as reported by the Security Shift Supervisor." NOTE: Alert may not be declared if Site Area Emergency threshold is met prior to classification.			

Perry Nuclear Power Plant Evaluated Exercise
Onsite / Offsite Scenario Conditions
September 27, 2022

Color Key:

BOLD BLUE - ECL Declarations Blue - Utility Actions Purple - County Actions
BOLD BLACK - Start of Release Red - State Actions

Note: The timing of State's and County's expected actions, as listed, is flexible and may not be performed in the order shown.

Approximate Time	State of Ohio Expected Actions	Ashtabula County Expected Actions	Geauga County Expected Actions	Lake County Expected Actions
7:52 AM	Two adversaries enter the FHB. A third approaches the Condensate Storage Tank (CST) where he throws a backpack into the diked area around the tank. The adversary is neutralized.			
7:54 AM	Remaining two adversaries are neutralized as they exit the FHB.			
7:57 AM	Explosion reported inside CST dike wall. CST is ruptured.			
8:00 AM	Explosion reported inside the FHB. Spent Fuel Pool level begins to lower.			
8:03 AM	PNPP declares a Site Area Emergency due to HS1.1, "A hostile action within the Protected Area as reported to the Shift Manager/Emergency Coordinator by the Security Shift Supervisor."			
8:06 AM	Offsite response agencies notified of ALERT declaration. NOTE: Alert may not be declared.			
	Dispatch notifies the Radiological Branch.			
	Coordination call with Ohio Emergency Management Agency (EMA) leadership discusses possible actions.			
8:07 AM	The Spent Fuel Pool leak detection and FHB sump alarms are activated.			
	State EOC begins a partial activation.	Ashtabula County EOC is fully activated.	Geauga County EOC is fully activated.	Lake County EOC is fully activated.
8:15 AM	Control Room receives a low level alarm on the CST and a high level alarm on the CST's dike.			
8:18 AM	Offsite response agencies notified of Site Area Emergency declaration.			
	State EOC begins a full activation.			

**Perry Nuclear Power Plant Evaluated Exercise
Onsite / Offsite Scenario Conditions
September 27, 2022**

Color Key:

BOLD BLUE - ECL Declarations **Blue** - Utility Actions **Purple** - County Actions
BOLD BLACK - Start of Release **Red** - State Actions

Note: The timing of State's and County's expected actions, as listed, is flexible and may not be performed in the order shown.

Approximate Time	State of Ohio Expected Actions	Ashtabula County Expected Actions	Geauga County Expected Actions	Lake County Expected Actions
	Ohio EMA issues a Protective Action Recommendation (PAR) for the 10-mile EPZ to go inside and listen to the Emergency Alert System.			
		Counties decide not to issue a Protective Action Decision (PAD) or sound sirens.	Counties decide not to issue a PAD or sound sirens.	Counties decide not to issue a PAD or sound sirens.
	Watch Office sends eNotify notifications to Dose Assessment group members, contiguous governments, Federal agencies, State partner agencies, and the Ohio EMA staff.	Notify key response personnel.	Notify key response personnel.	Notify key response personnel.
	State agencies alert and mobilize staff to support response.	Ashtabula County agencies alert and mobilize staff to support response.	Geauga County agencies alert and mobilize staff to support response.	Lake County agencies alert and mobilize staff to support response.
	Provide security for the State EOC.	Provide security for the Ashtabula County EOC.	Provide security for the Geauga County EOC.	Provide security for the Lake County EOC.
	Ag advisory issued placing livestock and poultry within 10-mile radius on stored feed and protected water.			
8:51 AM	Incident Command Post and Off-site Emergency Response have been activated.			
	Establish communications on the Executive Discussion Line (EDL).	Establish communications on the EDL.	Establish communications on the EDL.	Establish communications on the EDL.
	Public Information Officer (PIO) dispatched to the PNPP Joint Information Center (JIC).	PIO dispatched to the PNPP JIC.	PIO dispatched to the PNPP JIC.	PIO dispatched to the PNPP JIC.
	State Liaisons dispatched to the (PNPP) Emergency Operations Facility (EOF).			
	Staff public inquiry.	Staff public inquiry.	Staff public inquiry.	Staff public inquiry.
		Relocate Geneva Area City Schools to receiving schools.	Receiving schools receive Perry School District students.	Relocate Perry School and Madison School Districts to receiving schools.
	Norfolk-Southern and CSX Railroads are requested to stop traffic from ENTERING the 10-mile EPZ.			
	Dose Assessment begins to monitor plant conditions and run dose projections.			
	Governor may declare a "State of Emergency."	Consider declaring a local "State of Emergency" in Ashtabula County.	Consider declaring a local "State of Emergency" in Geauga County.	Consider declaring a local "State of Emergency" in Lake County.

Perry Nuclear Power Plant Evaluated Exercise
Onsite / Offsite Scenario Conditions
September 27, 2022

Color Key:

BOLD BLUE - ECL Declarations

Blue - Utility Actions

Purple - County Actions

BOLD BLACK - Start of Release

Red - State Actions

Note: The timing of State's and County's expected actions, as listed, is flexible and may not be performed in the order shown.

Approximate Time	State of Ohio Expected Actions	Ashtabula County Expected Actions	Geauga County Expected Actions	Lake County Expected Actions
	Department of Administrative Services (DAS) suspends purchasing and contracting requirements during the period of the emergency.			
	Executive Room (ER) discusses closing ODNR properties with the County.	Discuss closing ODNR properties within the 10-mile EPZ.	Discuss closing ODNR properties within the 10-mile EPZ.	Discuss closing ODNR properties within the 10-mile EPZ.
	If authorized, ODNR closes properties within the 10-mile EPZ.			
	ER discusses closing navigable waterways within the 10-mile EPZ including clearing Lake Erie with the County.	Discuss closing navigable waterways within the 10-mile EPZ including clearing Lake Erie.	Discuss closing navigable waterways within the 10-mile EPZ including clearing Lake Erie.	Discuss closing navigable waterways within the 10-mile EPZ including clearing Lake Erie.
	If authorized, ODNR closes navigable waterways within the 10-mile EPZ and acts to clear Lake Erie.			
9:49 AM	Spent Fuel Pool reaches 3 feet and stops lowering.			
	Field Monitoring Teams (FMTs) are mobilized, then dispatched to utility staging area.			Lake County General Health District (LCGHD) FMTs are activated.
	Public Inquiry begins taking calls from the public at the State EOC.	Public Inquiry begins taking calls from the public at the EOC.	Public Inquiry begins taking calls from the public at the EOC.	Public Inquiry begins taking calls from the public at the EOC.
	News releases are issued. Press briefings occur at the PNPP JIC.	News releases are issued. Press briefings occur at the PNPP JIC.	News releases are issued. Press briefings occur at the PNPP JIC.	News releases are issued. Press briefings occur at the PNPP JIC.
	50-mile counties are notified.			
	USDOE assistance is requested.			
	Radiological emergency information made available to farmers, food processors, and distributors through the local OSU Extension.	Radiological emergency information made available to farmers, food processors, and distributors through the local OSU Extension.	Radiological emergency information made available to farmers, food processors, and distributors through the local OSU Extension.	Radiological emergency information made available to farmers, food processors, and distributors through the local OSU Extension.
		Close State-licensed preschools, day care centers, Head Start Programs and camps.	Close State-licensed preschools, day care centers, and camps.	Close State-licensed preschools, day care centers, and camps.
		Notify Special Needs Support Agencies who will contact special needs and transportation dependent individuals.	Contact persons on the Special Needs list.	Contact persons on the Special Needs list.
		Notify large employers in the 10-mile EPZ.	Notify large employers in the 10-mile EPZ.	Notify large employers in the 10-mile EPZ.

**Perry Nuclear Power Plant Evaluated Exercise
Onsite / Offsite Scenario Conditions
September 27, 2022**

Color Key:

BOLD BLUE - ECL Declarations

Blue - Utility Actions

Purple - County Actions

BOLD BLACK - Start of Release

Red - State Actions

Note: The timing of State's and County's expected actions, as listed, is flexible and may not be performed in the order shown.

Approximate Time	State of Ohio Expected Actions	Ashtabula County Expected Actions	Geauga County Expected Actions	Lake County Expected Actions
		Staff Traffic/Access Control Points.	Staff Traffic/Access Control Points.	Staff Traffic/Access Control Points.
		Setup Emergency Worker Monitoring & Decontamination Station.	Setup Emergency Worker Monitoring & Decontamination Station.	Setup Emergency Worker Monitoring & Decontamination Station.
	FMTs begin traversing area where a plume could potentially be based on met data.			FMTs begin traversing area where a plume could potentially be based on met data.
		Setup Care Centers.	Setup primary Care Centers.	Setup Care Centers.
		Host hospitals placed on standby.		Host and risk hospitals placed on standby.
		Host and risk nursing homes are put on standby.	Host nursing homes are put on standby.	Risk nursing homes are put on standby.
		Advise milk and crop producers in Ashtabula County of precautionary protective actions.	Advise milk and crop producers in Geauga County of precautionary protective actions.	Advise milk and crop producers in Lake County of precautionary protective actions.
				Ensure water reservoirs and water towers are filled.
10:01 AM	PNPP declares a General Emergency based on RG2.1, "Spent fuel pool level cannot be restored to at least 3.5 feet for ≥ 60 minutes." NOTE: PNPP may declare a General Emergency based on HG1.1, "A hostile action is occurring or has occurred within the Protected Area as reported by the Security Shift Supervisor and either of the following has occurred: 1) Any of the following safety functions cannot be controlled or maintained: Reactivity, Reactor Pressure Vessel water level, Reactor Coolant System heat removal; or 2) Damage to spent fuel has occurred or is imminent."			
10:01 AM	PNPP issues a PAR to evacuate 2 miles 360° and 5 miles downwind sub-areas 1, 2, 3, and the Lake. All others should monitor and prepare. KI to be recommended per State plan.			
10:10 AM	A second explosion is reported in the FHB. Spent Fuel Pool level drops to below the top of stored fuel. Radiation monitors begin to increase indicating damage to spent fuel and a RELEASE IN PROGRESS .			
10:16 AM	Offsite response agencies are notified of the General Emergency declaration.			
	Dose Assessment proposes a PAR for evacuation and ingestion of KI to the State Executive Room. Note: The PAR may or may not include KI. The general philosophy is to recommend KI if there is a release. However, a spent fuel release will not contain radioactive iodine. Ohio may or may not recommend KI.			
	State Executive Room is advised of the State PAR, including Sub-Area 10, 10:16 AM, and Sub-Area 11, 10:16 AM, and Sub-Area 12, 10:16 AM.			

Perry Nuclear Power Plant Evaluated Exercise
Onsite / Offsite Scenario Conditions
September 27, 2022

Color Key:

BOLD BLUE - ECL Declarations **Blue** - Utility Actions **Purple** - County Actions
BOLD BLACK - Start of Release **Red** - State Actions

Note: The timing of State's and County's expected actions, as listed, is flexible and may not be performed in the order shown.

Approximate Time	State of Ohio Expected Actions	Ashtabula County Expected Actions	Geauga County Expected Actions	Lake County Expected Actions
	State needs to evacuate and alert by emergency workers, institutionalized individuals, and the public.			
	PAR issued by State to evacuate 2 mile 360°, 5 mile downwind, Sub-Area 1. Remainder of EPZ to monitor EAS.			
	State issues PAR for public, institutionalized, and emergency workers within the evacuated areas ingest KI.			
		Consider the utility and State PARs for evacuation.	Consider the utility and State PARs for evacuation.	Consider the utility and State PARs for evacuation.
		Consider recommending administration of KI to emergency workers, institutionalized individuals and the general public, if recommended by the State.	Consider recommending administration of KI to emergency workers, institutionalized individuals and the general public, if recommended by the State.	Consider recommending administration of KI to emergency workers, institutionalized individuals and the general public, if recommended by the State.
		County Executive Room determines PAD to evacuate Sub-Areas 1, 2, 3, and the Lake, remainder of EPZ monitor EAS.	County Executive Room determines PAD to evacuate Sub-Areas 1, 2, 3, and the Lake, remainder of EPZ monitor EAS.	County Executive Room determines PAD to evacuate Sub-Areas 1, 2, 3, and the Lake, remainder of EPZ monitor EAS.
		County Executive Room issues a PAD for the public, emergency workers, and institutionalized person to ingest KI.	County Executive Room issues a PAD for the public, emergency workers, and institutionalized person to ingest KI.	County Executive Room issues a PAD for the public, emergency workers, and institutionalized person to ingest KI.
		Notify State, appropriate facilities, agencies, and personnel of PADs, if necessary.	Notify State, appropriate facilities, agencies, and personnel of PADs, if necessary.	Notify State, appropriate facilities, agencies, and personnel of PADs, if necessary.
		Coordinate activation of sirens and issue EAS message with PAD to the public.	Coordinate activation of sirens and issue EAS message with PAD to the public.	Coordinate activation of sirens and issue EAS message with PAD to the public. Lake County sounds the sirens.
		Disseminate recommendation to take KI to emergency workers, institutionalized individuals, and the general public, as appropriate.	Disseminate recommendation to take KI to emergency workers, institutionalized individuals, and the general public, as appropriate.	Disseminate recommendation to take KI to emergency workers, institutionalized individuals, and the general public, as appropriate.
	Dose Assessment continues to monitor plant conditions and run dose projections.			
		Conduct back-up route alerting, if necessary.	Conduct back-up route alerting, if necessary.	Conduct back-up route alerting, if necessary.
		Activate Traffic/Access Control Points.	Activate Traffic/Access Control Points.	Activate Traffic/Access Control Points.

Perry Nuclear Power Plant Evaluated Exercise
Onsite / Offsite Scenario Conditions
September 27, 2022

Color Key:
BOLD BLUE - ECL Declarations **Blue** - Utility Actions **Purple** - County Actions
BOLD BLACK - Start of Release **Red** - State Actions

Note: The timing of State's and County's expected actions, as listed, is flexible and may not be performed in the order shown.

Approximate Time	State of Ohio Expected Actions	Ashtabula County Expected Actions	Geauga County Expected Actions	Lake County Expected Actions
		Activate Emergency Worker Monitoring & Decontamination Station.	Activate Emergency Worker Monitoring & Decontamination Station.	Activate Emergency Worker Monitoring & Decontamination Station.
		Activate reception center.	Activate care centers.	Activate care centers.
		Host hospitals receive evacuees from risk hospitals.		Risk hospitals evacuate and host hospitals receive evacuees from risk hospitals.
		Risk nursing homes evacuate residents; host nursing home receive evacuees.	Host nursing homes receive evacuees from risk nursing homes.	Risk nursing homes evacuate residents to host nursing homes.
	Norfolk-Southern and CSX Railroads are requested to stop traffic from ENTERING and EXITING the 10-mile EPZ.			
	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.			
	Additional notifications to be performed by Assessment, including: contiguous governments, 50-mile counties, FEMA V, NRC III.			
		Notify large food crop and milk producers of the release. Advise to implement protective actions, as necessary.	Notify large food crop and milk producers of the release. Advise to implement protective actions, as necessary.	
	Dose Assessment continues to monitor plant conditions and run dose projections.			
	FMTs take air samples in the plume. Samples are screened and sent to the lab.			FMTs take air samples in the plume. Samples are screened and sent to the lab.
	Public inquiry continues to field calls at the State EOC.	Public inquiry continues to field calls from at the EOC.	Public inquiry continues to field calls from at the EOC.	Public inquiry continues to field calls from at the EOC.
	News releases are issued. Press briefings occur at the PNPP JIC.	News releases are issued. Press briefings occur at the PNPP JIC.	News releases are issued. Press briefings occur at the PNPP JIC.	News releases are issued. Press briefings occur at the PNPP JIC.
11:45 AM	Efforts to add water to the Spent Fuel Pool are successful. NOTE: This will not impact the release prior to termination of the exercise.			
12:00 PM	EndEx (with concurrence of FEMA, PNPP, State of Ohio, and Ashtabula, Geauga, and Lake Counties)			

Appendix F: Extent-of-Play Agreements

**2022 PERRY NUCLEAR POWER PLANT
RADIOLOGICAL EMERGENCY PREPAREDNESS
PLUME EXPOSURE PATHWAY EXERCISE
2022.09.27**



State of Ohio Extent-of-Play

Rev. 4; 2022.08.19

Overview

Introduction

This document constitutes the State of Ohio's Extent of Play Agreement (EOP) for the 2022 Perry Nuclear Power Plant (PNPP) Radiological Emergency Preparedness (REP) Plume Pathway Exercise being conducted September 27, 2022.

The exercise will be a Full Participation Hostile Action Based (HAB) exercise for the State of Ohio. This Extent of Play Agreement was developed by the Exercise Planning Team in consultation with Federal Emergency Management Agency (FEMA) using the 2019 edition of the FEMA REP Program Manual. Evaluation Criteria from the 2016 FEMA REP Program Manual have been included for reference only.

Contents

Section	Page
Acronyms	74
General Information	74
Objective 1: Emergency Operations Management	81
Objective 2: Exposure Control	85
Objective 3: Alert and Notification	86
Objective 4: Detect, Measure, Sample, Analyze, and Assess	87
Objective 5: Operate	89
Evaluation Locations	92

Acronyms

ECL	Emergency Classification Level
EMA	Emergency Management Agency
Emergency Operations Center	Emergency Operations Center
EOF	Emergency Operations Facility
EPA	Environmental Protection Agency
EPZ	Emergency Planning Zone
ESF	Emergency Support Function
FEMA	Federal Emergency Management Agency
FMT	Field Monitoring Team
HAB	Hostile Action Based
IPX	Ingestion Pathway Exercise
JIC	Joint Information Center
KI	Potassium Iodide
MS	Microsoft
MSEL	Master Scenario Events List
N/A	Not Applicable
N/S	Not Selected
ODH	Ohio Department of Health
ODNR	Ohio Department of Natural Resources
ODOT	Ohio Department of Transportation
ORO	Offsite Response Organization
PAD	Protective Action Decision
PAG	Protective Action Guide
PAR	Protective Action Recommendation
PIO	Public Information Officer
PNPP	Perry Nuclear Power Plant
PPX	Plume Pathway Exercise
PUCO	Public Utilities Commission of Ohio
REP	Radiological Emergency Preparedness
RRA	Resident Radiological Analyst
SSAF	State Supplemental Action Forms

General Information

Disclaimer

All demonstration activities will be conducted in accordance with the 2019 FEMA REP Program Manual except as noted in this agreement. Evaluation Criteria from the 2016 FEMA REP Program Manual have been included as references only. Real life emergencies and personnel health and safety will take precedence over exercise play.

Participating
Organizations

Organizations participating in this exercise include:

- Amateur Radio Emergency Service
- Michigan Environment, Great Lakes, and Energy
- Ohio Department of Administrative Services
- Ohio Department of Agriculture
- Ohio Department of Education
- Ohio Department of Health (ODH)
- Ohio Department of Natural Resources (ODNR)
- Ohio Department of Public Safety
- Ohio Department of Transportation (ODOT)
- Ohio Emergency Management Agency (EMA)
- Ohio Emergency Medical Services
- Ohio Environmental Protection Agency
- Ohio Fire Chiefs' Association
- Ohio Geographically Referenced Information Program
- Ohio Homeland Security
- Ohio National Guard
- Ohio State Highway Patrol
- Ohio State University Extension
- Public Utilities Commission of Ohio (PUCO)
- State Fire Marshal
- United States Coast Guard

References

In this document, any references to Assessment, Dose Assessment, Executive Room, or Joint Information Center (JIC), should be assumed to refer to these locations/activities as they take place at the State Emergency Operations Center (Emergency Operations Center). If a different location is intended, it will be specified.

Out-of-sequence
Participation
9/20/2022

Out-of-sequence activities will be conducted on Tuesday September 20, 2022, and the following positions evaluated:

- Field Monitoring Team (FMT) Coordinator (Ohio EMA)
- FMTs (x2)
- FMT Courier
- Sample Screening

The FMT Coordinator and Sample Screening will be located at the Lake County Emergency Operations Center. The FMTs staging location is also the Lake County Emergency Operations Center.

The FMT demonstration will begin at 10:00 am EDT. Sample screening will arrive to set up no later than 12:30 pm EDT and will be ready to accept samples at approximately 1:30 pm EDT.

Out-of-sequence
Participation
9/26/2022

Out-of-sequence activities will be conducted as a tabletop/interview on Monday, September 26, 2022 at 10:00 am EDT, and Alert and Notification of the Public activities will be evaluated at Ohio Department of Natural Resources (ODNR) Parks & Watercraft, 1150 E 49th Street, Cleveland.

In-sequence
Participation
9/27/2022

The State of Ohio will fully participate in this exercise with a few exceptions. In-sequence activities will be conducted on Tuesday September 27, 2022, and evaluated at the following locations, with the noted exceptions.

- Lake County Emergency Operations Center
 - FMT Coordinator (Ohio EMA) – no participation
 - The position will be performed by a Controller acting as the FMT Coordinator who is “coordinating and communicating with FMTs in the field.” No actual coordination or communication with FMTs will occur.
 - FMTs will not participate in-sequence.
 - The FMT Coordinator will NOT be evaluated on this date.
- State Emergency Operations Center
 - Emergency Support Functions (ESFs)
 - ESF-6 – partial participation
 - ESF-15 – Social media will not be evaluated

For activities, whether demonstrated in-person, Microsoft (MS) Teams may be used as a tool for communication and transmittal of documentation.

LCGHD FMTs
9/27/2022

The Lake County General Health District (LCGHD) FMTs will participate in-sequence on September 27, 2022. For more information, refer to the Lake County Extent of Play.

Simulation

All Executive Room communications with the Governor's Office and Department of Administrative Services will be simulated.

Pre-Staging –
State Emergency
Operations
Center Only

Ohio EMA Players will remain in their offices prior to notification of the event or activation of the State Emergency Operations Center.

The Assessment Room prior to an activation is known as the Ohio EMA Watch Office. The Watch Office is in continuous Operations. The Watch Office staff will be present, per normal Operations, when the exercise begins.

Non-Ohio EMA Players will be allowed to pre-stage in Room 204 until they have been activated through contact from their agency or receipt of an eNotify stating their ESF/position has been activated.

All Players will be allowed to sign into the "DPS PNPP" Team's channels after they have been notified of their position's activation.

Pre-Staging –
Other Locations

State personnel to staff in-person non-State Emergency Operations Center positions will be pre-positioned for the following locations:

- Lake County Emergency Operations Center (County Emergency Operations Center Liaisons (ODH, Ohio EMA [x2]))
- PNPP EOF (Utility EOF Liaisons (ODH, Ohio EMA))
- PNPP JIC (Utility JIC Public Information Officer (PIO) (ODH), Utility JIC Liaison (ODH))

The two Ohio EMA Resident Radiological Analysts (RRAs) at the Lake County Emergency Management Agency/Emergency Operations Center will be in the RRA office on location before the exercise begins as it is the beginning of normal work hours. The FMT Coordinator Controller (Ohio EMA) will be allowed into the Emergency Operations Center before activation because they are not a Player. The ODH County Emergency Operations Center Liaison will be prepositioned in the area and will arrive 10-20 minutes after they are notified, in order to simulate travel time.

The Utility EOF Liaisons assigned to the PNPP EOF will be prepositioned in the area and will arrive 10-20 minutes after they receive the emergency notification, in order to simulate travel time.

The Utility JIC PIO (ODH) and Utility JIC Liaison (ODH) assigned to the PNPP JIC will be prepositioned in the area and will arrive 10-20 minutes after they receive the emergency notification, in order to simulate travel time.

Players will be allowed to sign into the “DPS PNPP” Team’s channels after they have been notified of their position’s activation.

Off-Site Timeline

An off-site timeline, with anticipated state and county responses, will be provided to FEMA for review a minimum of 30 days prior to the exercise date.

Master Scenario
Events List

The State will develop and implement a Master Scenario Events List (MSEL) sufficient to drive actual and simulated State play, support Ashtabula, Geauga, and Lake Counties’ play. Sufficient Controllers will be on hand to provide injects to drive the scenario and control exercise play. The MSEL will be provided to FEMA for review at least 30 days prior to the exercise.

Controllers

Each location or MS Teams channel with a State of Ohio participant will be assigned a Controller whose function will be to ensure that exercise activities are conducted safely and remain on track relative to the scenario and exercise timeline. The Lake County Emergency Operations Center and the PNPP EOF will be the exceptions.

The Ohio EMA Resident Radiological Analysts (RRAs) are County Emergency Operations Center/Utility EOF Liaisons located at the Lake County Emergency Operations Center and the PNPP EOF. Although Players, they will be available to field questions from the FEMA evaluators. As RRAs, these Players will be able to answer some exercise-related questions. If an issue arises, the Ohio EMA Lead Controller will be available by phone.

If necessary, the Controllers will provide injects to drive exercise play in concert with the MSEL and this extent-of-play agreement. Pre-scheduled emails to certain positions may be employed as well.

Exercise
Evaluation

All Evaluators and FEMA exercise personnel will be given access to the PNPP Team and Channels within MS Teams, if requested. Access to the State's Web Emergency Operations Center can also be granted.

If the scenario utilized for the exercise does not drive the decision-making process, some criterion may be demonstrated by Evaluator interview.

Documents added to MS Teams or Web Emergency Operations Center will be gathered by the Lead Controller and provided to the FEMA Exercise Director the day after the exercise is held.

Redemonstration
Capability Targets/
Criteria

Criteria that will be demonstrated during this exercise and can be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader, include the following listed by 2019 RPM Capability Target/2016 RPM Evaluation Criteria: 1.1/1.a.1; 2.1/2.a.1; and 3.1/1.d.1.

The Criterion that may be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader OR may be re-demonstrated as approved on a case-by-case basis by the Chairperson of the Regional Assistance Committee, is listed by 2019 RPM Capability Target/2016 RPM Evaluation Criteria: 1.2/1.c.1.

Criteria that may be re-demonstrated as approved on a case-by-case basis by the Chairperson of the Regional Assistance Committee, include the following listed by 2019 RPM Capability Target/2016 RPM Evaluation Criteria: 1.3/2.b.1; 1.4/2.b.2; and 1.4/2.c.1.

Re-demonstrations will be negotiated between the Lead Controller, Jurisdiction FEMA Team Leader, and the offsite response organization (ORO) involved and will be conducted only when the corrective action would not interfere with the flow of the exercise. Refresher training may be provided by ORO personnel and/or the Controller.

FEMA/ICFI
Evaluator
Pre-Exercise
Briefing

The State of Ohio will brief FEMA Evaluators on the accepted extent of play and any changes that have been agreed upon with FEMA Region V at the FEMA Pre-Exercise Meeting on Monday, September 26, 2022.

FEMA
Exercise
Briefing/Public
Meeting

FEMA will conduct both an exercise briefing for participants and a public meeting on Friday, September 30, 2022 at the Lake County Emergency Operations Center. The briefing will begin at 8:00 am EDT. The public meeting will be held at 9:00 am EDT.

Public Notice

The public notice will be published in The Morning Journal on September 20, 2022.

Objective 1: Emergency Operations Management

Capability Target 1.1

Individuals with roles in support of emergency Operations are identified, alerted, and mobilized in a timely manner. **(2016 RPM: 1.a.1)**

Locations/ Positions

Assessment Room, Dose Assessment Room, Executive Room, Initial Notification Point (INP), Lake County Emergency Operations Center, Operations Floor, PNPP EOF, PNPP JIC, State JIC

Out-of-sequence – Field (FMT Coordinator, FMTs, FMT Courier, Sample Screening); ODNR Parks & Watercraft

Extent of Play The Watch Office will receive the initial notification over the PNPP Conference Bridge which is passcode protected. Phone communications will be assumed by the Formal Line Communicator in the Dose Assessment Room once the position is activated and staffed.

Note: The Watch Office is always staffed.

Note: Once the Watch Office is activated, it officially becomes the Assessment Room.

The agencies that have responsibilities in the State Emergency Operations Center are activated at various Emergency Classification Levels (ECLs). Under normal emergency conditions, the Assessment Room, Dose Assessment Room, Executive Room, and State JIC will activate at the Alert ECL. Other locations that will be activated at the Alert ECL include: Lake County Emergency Operations Center, PNPP EOF, and PNPP JIC.

For a typical response, all partner agencies are notified of an event at PNPP at each ECL, starting at Alert. For PNPP, specific Emergency Support Functions (ESFs) would be requested to staff the State Emergency Operations Center at Alert, such as ESF-1, Transportation and ESF-9, Search and Rescue. However, any agency who has responsibilities at the State Emergency Operations Center would also be allowed to arrive and staff the Operations Floor at any time they deemed it necessary. The State Emergency Operations Center will be “fully” activated when appropriate to the situation, but no later than the Site Area Emergency ECL. Various initiating events may trigger an activation of the State Emergency Operations Center at an earlier ECL.

Pre-staging

- **Lake County:** The two Ohio EMA RRAs at the Lake County Emergency Management Agency/Emergency Operations Center will be in the RRA office on location before the exercise begins as it is at the start of normal work hours. The FMT Coordinator Controller may be at the Lake County Emergency Operations Center early because they are not considered a Player. The ODH County Emergency Operations Center Liaison will be prepositioned in the area and will arrive 10-20 minutes after notification.
- **PNPP EOF:** The Utility EOF Liaisons assigned to the PNPP EOF will be prepositioned in the area and will arrive 10-20 minutes after they receive the emergency notification, in order to simulate travel time.
- **PNPP JIC:** The Utility JIC Liaison and Utility JIC Public Information Officer (PIO) assigned to the PNPP JIC will be prepositioned in the area and will arrive 10-20 minutes after they receive the emergency notification, in order to simulate travel time.

Players will be allowed to sign into the “DPS PNPP” Team’s channels after they have been notified of their position’s activation.

Capability Target 1.2	Individuals in leadership roles provide direction and control to the portion of the overall response effort for which they are responsible. (2016 RPM: 1.c.1)
--------------------------	--

Locations	<p>Assessment Room, Dose Assessment Room, Executive Room, Lake County Emergency Operations Center, Operations Floor, PNPP EOF, PNPP JIC</p> <p>Out-of-sequence – Field (FMT Coordinator); ODNR Parks & Watercraft</p>
-----------	---

Extent of Play	<p>The Information and Planning Chief from the Assessment Room will provide periodic briefings to the Executive Room.</p> <p>The Executive Director of Ohio EMA, acting as the Emergency Operations Center Director, is the Governor’s Designee and will coordinate decisions on behalf of the Governor's Office from the Executive Room.</p> <p>The Executives coordinate with the risk counties in determining when to have ODNR close their properties within the 10-mile EPZ.</p> <p>ODH is responsible for the developing State Protective Action Recommendations (PARs) in the Dose Assessment Room and will provide periodic briefings to the Executive Room. The Assessment Room and State JIC will attend these briefings to provide necessary updates.</p> <p>The County Emergency Operations Center Liaisons (Ohio EMA) will provide guidance to the Lake County Emergency Operations Center Director and Commissioners.</p>
----------------	---

Capability Target 1.3	Appropriate PARs are selected based on available information and other factors. (2016 RPM: 2.b.1)
--------------------------	--

Locations	Dose Assessment Room, Executive Room
-----------	--------------------------------------

Extent of Play The Dose Assessment Room will evaluate the information from PNPP then complete independent dose projections, as appropriate, based on that information and available field monitoring data. ODH will evaluate the resulting projections and forward PARs to the Executive Room. PARs approved by the Executives will then be relayed to the Ashtabula, Geauga, and Lake County Emergency Operations Centers through the Formal Line Communicator.

Capability Target 1.4 Appropriate PADs are based on available information for the plume phase. (2016 RPM: 2.b.2)

Locations Dose Assessment Room, Executive Room

Extent of Play Through ODH, a PAR will be presented to the Executives recommending the use of KI for the public, institutionalized individuals, and emergency workers. Once approved by the Executives it becomes a State PAD that will be followed by State emergency workers and counties.

Capability Target 1.5 Implement decisions for those populations and areas subject to plume phase protective actions.

Locations **Not Applicable:** This is a county function.

Capability Target 1.6 Appropriate PADs are based on available information for the post-plume phase.

Locations **Not Selected (N/S):** This Capability Target will be demonstrated at the 2026 Perry Nuclear Power Plant (PNPP) Ingestion Pathway Exercise (IPX)

Capability Target 1.7 Implement decisions for those populations and areas subject to post-plume phase protective actions.

Locations

Not Selected (N/S): This Capability Target will be demonstrated at the 2026 Perry Nuclear Power Plant (PNPP) Ingestion Pathway Exercise (IPX)

Objective 2: Exposure Control

Capability Target 2.1

A decision-making process involving consideration of appropriate factors and necessary coordination is used to ensure that an exposure control system is in place for emergency workers and includes the use of radioprotective drugs and procedures to authorize emergency exposures in excess of the PAGs. **(2016 RPM: 2.a.1)**

Locations

Dose Assessment Room, ESF-10, Executive Room

Extent of Play

Dose Assessment will consider United States Environmental Protection Agency (EPA) Protective Action Guidelines (PAGs) and State Administrative Limits to develop PARs, including the administration of KI, based on their technical evaluation of the available data. PARs will be briefed to the Executive Room. Once a PAR receives final Executive approval, it will be relayed to the Ashtabula, Geauga, and Lake County Emergency Operations Centers. The state and county will disseminate recommendations to emergency workers.

Field monitoring data will be provided to the FMT Communicator from a Controller acting as the FMT Coordinator. The data will be read from a Virtual Plumes software scenario provided by PNPP.

Any use of KI will be simulated.

ESF-10 will demonstrate the authorization process for radiation exposure in excess of administrative limits. The demonstration will occur after the Termination of the exercise in coordination with the assigned Evaluator.

Capability Target 2.2

Emergency workers manage radiological exposure and dose in accordance with plans/procedures. **(2016 RPM: 3.a.1)**

Locations Out-of-sequence – Field (FMT Coordinator, FMTs, FMT Courier, Sample Screening); ODNR Parks & Watercraft

Extent of Play 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 or could travel through a plume. The state personnel responding to the PNPP EOF, PNPP JIC, and County Emergency Operations Center will be prepositioned in the area in order to participate in sequence with the rest of the exercise participants.

Objective 3: Alert and Notification

Capability Target 3.1 Communication processes, systems, and equipment are sufficient to support emergency Operations. **(2016 RPM: 1.d.1)**

Locations Assessment Room, Dose Assessment Room, Executive Room, INP, Lake County Emergency Operations Center, Operations Floor, PNPP EOF, PNPP JIC, State JIC

Out-of-sequence – Field (FMT Coordinator, FMTs, FMT Courier, Sample Screening); ODNR Parks & Watercraft

Extent of Play The primary means of communications for State response is commercial telephone. Cell phones, MS Teams, and MARCs radios are available for backup communications.

A MARCs radio test will be performed in the Assessment Room with Ashtabula, Geauga, and Lake Counties at approximately 8:00 am EDT in coordination with the assigned Evaluator. The State will initiate the communication.

Capability Target 3.2 Alert and notification of the public is completed in a timely manner. **(2016 RPM: 5.a.1)**

Locations ODNR Parks & Watercraft, Cleveland

Extent of Play The State will simulate notification of the public on Lake Erie (within the 10-mile EPZ) by ODNR.

All other initial notification of the public is the responsibility of the counties.

Capability Target 3.3 OROs provide accurate subsequent emergency information and instructions to the public and the news media in a timely manner. **(2016 RPM: 5.b.1)**

Locations Executive Room, PNPP JIC, State JIC, State JIC Public Inquiry

Extent of Play The staff at the State JIC will develop news releases, providing them to the Utility JIC PIO at the PNPP JIC, where they will be released to the news media and public. An Ohio State Highway Patrol (OSHP) PIO will be assisting the JIC Writer in developing news releases to ensure sensitive data is not released concerning the event.

The State JIC PIO will coordinate with the Utility JIC PIO at the PNPP JIC to provide accurate information clarifying trending rumors identified through the State JIC Public/Media Inquiry.

Public/Media Inquiry will be participating in the exercise.

Objective 4: Detect, Measure, Sample, Analyze, and Assess

Capability Target 4.1 FMTs are managed to obtain information to help characterize the release, locate and track the airborne radiological plume, and control contamination. **(2016 RPM: 4.a.2)**

Locations Out-of-sequence – Field (FMT Coordinator)

Extent of Play FMTs will be managed by the FMT Coordinator located at the Lake County EMA. During the plume phase, the release will be characterized by two State Field Monitoring Teams composed of a mix of Ohio EMA and Ohio Department of Health employees.

A Controller will provide injects to the FMT Coordinator detailing times, emergency classification levels, meteorological data, and release status.

Capability Target 4.2 FMTs make, record, and report measurements of ambient radiation to appropriate authorities; radioiodine and particulate samples are collected. **(2016 RPM: 4.a.3)**

Locations Out-of-sequence – Field (FMTs, Sample Screeners)

Extent of Play Radiation readings will be provided to the FMTs' Ludlum 3001 survey meter remotely via Teletrix Virtual Plumes, a plume simulation software.

Personal Protective Equipment (PPE) may be simulated at the discretion of the Controller in consultation with the Evaluator. Donning and doffing of PPE may be demonstrated by one FMT member. Gloves will be demonstrated during the sampling process by all FMT members who are required to wear gloves.

Capability Target 4.3 FMTs take measurements and samples to support assessment of the ingestion exposure pathway and to support reentry, relocation, and return decisions.

Locations **Not Selected (N/S):** This Capability Target will be demonstrated at the 2026 Perry Nuclear Power Plant (PNPP) Ingestion Pathway Exercise.

Capability Target 4.4 The laboratory performs radiological analyses to support protective action decision-making.

Locations **Not Selected (N/S):** This Capability Target will be demonstrated at the 2026 Perry Nuclear Power Plant (PNPP) Ingestion Pathway Exercise.

Capability Target 4.5	Dose assessment considers all available information including plant conditions, environmental conditions, field monitoring data, sample analysis results, and dose projection calculations. (2016 RPM: 2.b.1)
-----------------------	--

Locations	Dose Assessment Room, Executive Room
-----------	--------------------------------------

Extent of Play	<p>Dose Assessment will evaluate the information from PNPP then complete independent dose projections, as appropriate, based on that information and available field monitoring data. ODH will evaluate the resulting projections and creating PARs for the Executive Room to approve. When creating PARs, ODH only takes into account technical information. Environmental conditions are taken into account by the counties, as they are more familiar with the conditions in their area.</p> <p>PARs approved by the Executives will then be relayed to the Ashtabula, Geauga, and Lake County Emergency Operations Centers through the Formal Line Communicator.</p>
----------------	--

Capability Target 4.6	Post-plume phase assessment considers all available information, including environmental conditions, field monitoring data, sample analysis results, and dose projection calculations.
-----------------------	--

Locations	Not Selected (N/S): This Capability Target will be demonstrated at the 2026 Perry Nuclear Power Plant (PNPP) Ingestion Pathway Exercise.
-----------	---

Objective 5: Operate

Capability Target 5.1	Facilities, equipment, and procedures are in place and utilized to provide monitoring, decontamination, identification, temporary shelter, congregate care, and registration of evacuees.
-----------------------	---

Locations	Not Applicable: This is a county function.
-----------	---

Capability Target 5.2	Facilities, equipment, and procedures are in place and utilized to provide monitoring and decontamination of emergency workers and their equipment and vehicles.
-----------------------	--

Locations	Not Applicable: This is a county function.
-----------	---

Capability Target 5.3	Transport contaminated, injured individuals to medical facilities with the capability to monitor and decontaminate.
-----------------------	---

Locations	Not Applicable: This is a county function.
-----------	---

Capability Target 5.4	Appropriate traffic and access control is established; accurate instructions are provided to traffic and access control staff. (2016 RPM: 3.d.1)
-----------------------	---

Locations	Assessment Room
-----------	-----------------

Extent of Play	<p>Missions will be created in Web Emergency Operations Center after certain ECLs are declared based on signed State Supplemental Action Forms (SSAF), both Default and Executive Approval versions.</p> <p>The Assessment Room is responsible for the ensuring the Default SSAF is signed at each ECL and forwarded to the proper people. From this form, missions will be created for ESF-1, Transportation, to notify railroads of the event and of any restrictions on rail traffic.</p> <p>Another mission will be created for ESF-1 to request the Federal Aviation Administration to restrict the airspace 10-miles around PNPP.</p> <p>The Executive Room is responsible for the Executive Approval SSAF. After discussions with the County, the Executives will sign and forward the SSAF in order for missions to be created for ESF-9, Search and Rescue, to restrict boating traffic on navigable waterways including Lake Erie.</p> <p>Ohio State Highway Patrol's (OSHP) Chardon Post would coordinate directly with Lake and Geauga Counties' law enforcement to provide State resources for the counties' Traffic and Access Control Point support. OSHP's Ashtabula Post would coordinate directly with Ashtabula County law enforcement to provide State resources for the county's Traffic and Access Control Point support.</p>
----------------	---

UNCLASSIFIED

(See Ashtabula, Geauga, and Lake County's extent of play agreements to view the extent of the Ashtabula and Chardon Posts' participation.)

UNCLASSIFIED

Evaluation Locations (in alphabetical order)

Lake County
Emergency
Operations
Center

Address	8505 Garfield Road Mentor, OH 44060
Contact	Ed Filppi

ODNR Parks &
Watercraft,
Cleveland Office

Address	1150 E. 49th Street Cleveland, OH 44114
Contact	Ed Filppi

PNPP EOF

Address	Concord Line Shop property 7755 Auburn Road Painesville, OH 44077
Contact	Pete Hill

PNPP JIC

Address	Auburn Career Center 8140 Auburn Road Painesville, OH 44077
Contact	Bob Zehentbauer

State Emergency
Operations
Center

Address	2855 West Dublin-Granville Road Columbus, Ohio 43235
Contact	Chris Salz

Nuclear Power Plant Exercise

Perry Nuclear Power Plant

Radiological Emergency Preparedness (REP) Program

Extent-of-Play Agreement for Ashtabula County



September 27, 2022

Extent-of-Play Agreement

Table of Contents

Section 1: Exercise Overview	2
Overarching Purpose	2
Scope	2
Table 1 – Schedule of Activities	3
Section 2: Extent-of-Play Agreement	6
Standards & References	6
Exercise Participants	6
Signatures & Conditions.....	7
Section 3: Objectives and Exceptions	8
Objective 1: Emergency Operations Management.....	8
Objective 2: Exposure Control.....	14
Objective 3: Alert and Notification	17
Objective 4: Detect Measure, Sample, Analyze, and Access.....	21
Objective 5: Operate	22
Section 4: Demonstration Locations, Dates, Times, and Contacts	30
Section 5: Back-up Documentation	34
Section 6: Acronyms	36

Section 1: Exercise Overview

Overarching Purpose

The purpose of this extent of play agreement (EOP) identifies the conditions that will be used to conduct, control and evaluate the 2022 Perry Nuclear Power Plant Evaluated Exercise, as agreed to by the offsite response organizations and Federal Emergency Management Agency (FEMA) Region 5, Radiological Assistance Committee (RAC) Chair.

The extent-of-play agreement is negotiated during the exercise planning process and documents deviations from activities as described in plans and procedures for exercise demonstration purposes. The extent-of-play agreement identifies the Capability Targets that will be evaluated during the exercise, including any exceptions, as well as the entities responsible for demonstrating the Capability Targets.

Scope

The exercise has both In-Sequence and Out-of-Sequence demonstration activities.

In-Sequence activities will occur the morning of September 27, 2022, from approximately 0730-1300 Eastern Standard Time (EST). Ashtabula County will fully participate in this exercise, sufficient to support the demonstrations described in this EOP. The State of Ohio will participate sufficient to support Ashtabula County response Operations. (See State of Ohio Extent-of-Play Agreement).

This is a Hostile Action Based (HAB) exercise which will result in the establishment of an Incident Command Post in Lake County to support law enforcement activities.

In-Sequence activities will be conducted at the following locations:

- County Initial Warning Point (Sheriff's Office Dispatch Center)
- Emergency Operations Center (Emergency Operations Center)
- Incident Command Post (ICP) – Lake County Only
- Joint Information Center (JIC)

Out of Sequence activities will be managed by the Lead Controller at each field location and will be run independently. All demonstrations will commence promptly and, barring any complications, not continue past the end time. (See Table – 1)

Demonstration Windows

Demonstration windows are those periods of time designated in the exercise during which specified demonstrations will be accomplished.

The schedule of activities including OROs, locations, dates, and times for In-Sequence, Field and Out-of-Sequence Play activities are summarized in Table 1 below. Additional information is provided in Section 4.

Table 1 – Schedule of Activities

Activity	ORO/Location	Date/Time
Initial Notification (1)	Sheriff's Office Dispatch Center	Tuesday, Sept 27, 2022 7:30 AM (estimated)
Ashtabula County Emergency Operations Center Operations	Ashtabula County EMA	Tuesday, Sept 27, 2022 7:30 AM – 01:00 PM
Joint Information Center (JIC)	Licensee and Counties/Auburn Career Center	Tuesday, Sept 27, 2022. 8:00 AM – 1:00 PM
Traffic/Access Control (TACP)	Ashtabula County Sheriff's Office at Ashtabula County EMA	Tuesday, Sept 27, 2022 8:00 AM – 1:00 PM
Emergency Worker Monitoring/Decontamination Center (EW Dosimetry Coordinator)	Saybrook, Ashtabula Twp, Ashtabula and Conneaut FDs / Lakeside Junior High School	Wednesday, Sept 28, 2022 5:30 PM – 7:30 PM
Backup Route Alerting	Geneva Fire Dept	Monday, Sept 26, 2022 6:30 PM – 8:30 PM

(1) – If the scenario is not initiated at the Initial Notification Point, FEMA will conduct an interview with the Sheriff's Dispatch staff.

Re-demonstration

All activities will be demonstrated fully in accordance with respective plans and procedures as they would be in an actual emergency. This extent-of-play agreement is written by exception. If an exception is not included below then the activity will be demonstrated as described in plans and/or procedures. Any issue or discrepancy arising during the Perry Nuclear Power Plant Exercise may be re-demonstrated during the week of exercise play, Sept 26 through Sept 29, 2022, if allowed by the RAC Chair, or as listed in Section 5. This allowance may be granted if it is not disruptive to exercise play and is mutually agreed to by the lead offsite response organization controller and lead FEMA evaluator. Issues resolved as a result of a re-demonstration will be noted as Findings resolved through re- demonstration.

Demonstration Criteria impacted by No/Minimal Release and/or Limited EAL Escalations:

A no/minimal release scenario would not necessarily require Protective Action Recommendations and Protective Action Decisions (PARs/PADs), including the use of KI, to limit the exposure of the public and/or emergency workers. These Evaluation Criteria will be met if the decision-making process is adequately demonstrated in accordance with plans and procedures and the result is consistent with the exercise scenario. Objectives or points of review not demonstrated will be augmented by evaluator interview.

Activities, Core Capabilities, and Exercise Objectives

Activity	Core Capability	Exercise Objective
Initial Notification Point	Operational Communications	Objective 1: Emergency Operations Management Objective 3: Alert and Notification
County Emergency Operations Center	Operational Coordination Public Information and Warning	Objective 1: Emergency Operations Management Objective 2: Exposure Control Objective 3: Alert and Notification
Joint Information Center	Operational Communications	Objective 3: Alert and Notification
Emergency Worker Monitoring/Decontamination	Operational Coordination Environmental Response/Health and Safety	Objective 1: Emergency Operations Management Objective 2: Exposure Control Objective 5: Operate
Backup Route Alerting	Public Information and Warning	Objective 3: Alert and Notification
Traffic and Access Control	Access Control Operational Coordination Critical Transportation	Objective 2: Exposure Control Objective 5: Operate

Section 2: Extent-of-Play Agreement

Standards & References

Ashtabula County OROs will use the following references, plans, and procedures during exercise play:

- Ashtabula County Radiological Emergency Response Plan, Revision 25, January 2022.
- Department of Homeland Security/Federal Emergency Management Agency REP Program Manual December 2019
- NUREG 0654/FEMA REP 1 Rev. 2
- Ashtabula County Suggested Operational Guidance, latest revisions.

Exercise Participants

County and local Offsite Response Organizations (ORO) that will participate in this exercise may include but are not limited to the following:

- Ashtabula County Emergency Management Agency
- Ashtabula County Sheriff's Office
- Ashtabula Fire Department
- Ashtabula Township Fire Department
- Saybrook Fire Department
- Conneaut Fire Department
- Geneva Fire Department

Signatures & Conditions

The following agree to support this exercise as described herein:

Exercise Director	Representative of Participating Organization
Jeff Archer Exercise Director Perry Nuclear Power Plant Energy Harbor	Mike Fitchett Director Ashtabula County EMA
	Tom Steele Chief Ashtabula Township Fire Department
	Shawn Gruber Chief Ashtabula City Fire Department
	John Jyurovat Chief Saybrook Township Fire Department
	Steve Lee Chief Conneaut Fire Department
	Dave Shook Chief Geneva Fire Department
	William Niemi Ashtabula County Sheriff Ashtabula County Sheriff's Office

Section 3: Objectives and Exceptions

Objective 1: Emergency Operations Management

Capability Target 1.1: Mobilization - Individuals with roles in support of emergency Operations are identified, alerted, and mobilized in a timely manner.

Intent: The capability to alert, notify, and mobilize OROs to staff facilities in support of emergency Operations.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (A.1, A.1.a, A.1.b, A.3, A.4, A.5, C.1, C.2, C.2.a, C.2.b, C.3, E.1, E.1.a, E.3, F.1.c, H.6, and O.1)

Core Capabilities: Operational Coordination, Planning

Exercise Parameters: Ashtabula County intends to fully activate the County Emergency Operations Center (Emergency Operations Center) in Jefferson, Ohio. The County will implement notification procedures as defined in Plans and SOGs.

Assessment	Venue	Extent of Play
Alert, notify, and mobilize key personnel, to include a 24-hour staffing roster, and activate facilities in a timely manner.	All Venues	Exception: Some participants, players, etc. will be prepositioned in local area. Players will not begin their assigned exercise roles until notification is received.
Receive and verify notifications.	Ashtabula County Emergency Operations Center	No Exceptions
Identify and request additional resources, as needed.	All Venues	Exception: Agencies outside this EOP may be requested, but response will be simulated.
Determine a facility is Operational.	All Venues	No Exceptions

Capability Target 1.2: Direction and Control - Individuals in leadership roles provide direction and control to the portion of the overall response effort for which they are responsible.

Intent: The capability to provide overall direction and control of response efforts, commensurate with the responsibilities of leadership, as detailed in plans/procedures.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (A.1, A.1.a, A.1.b, A.1.c, A.2, A.3, A.5, C.2, C.2.a, C.2.b, C.3, D.4, E.1, H.6, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

Exercise Parameters: Decision Making will be demonstrated at the Ashtabula County Emergency Operations Center. Coordination of decisions and emergency activities will be demonstrated between the State of Ohio, Lake County and Geauga County

Assessment	Venue	Extent of Play
Support protective action decision-making.	Ashtabula County Emergency Operations Center	No Exceptions
Conduct briefings in a timely manner.	Ashtabula County Emergency Operations Center	No Exceptions
Maintain Situational Awareness	All Venues	No Exceptions
Coordinate response activities with other organizations.	Ashtabula County Emergency Operations Center	No Exceptions
Obtain resources to support emergency Operations	All Venues	Exceptions: by discussion if not already available at venue.
Provide and maintain adequate facilities and equipment to support the emergency response.	All Venues	No Exceptions

Capability Target 1.3: Protective Action Recommendations – Appropriate PARs are selected based on available information and other factors.

Intent: The capability to use dose assessment and field data, compare this data to the PAGs, and choose among a range of protective actions those most appropriate in a given emergency.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (D.4, J.7, J.8, J.8.b, J.9, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Planning

Exercise Parameters: Not Selected, this is a Licensee and State Function.

Capability Target 1.4: Protective Action Decisions for the Plume Phase - Appropriate PADs are based on available information for the plume phase.

Intent: The capability to utilize appropriate factors and necessary coordination in the decision-making process used to make PADs for the public.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (D.1.b, D.4, J.6, J.7, J.8, J.8.b, J.10, J.10.a, J.10.b, J.11.c-g, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Critical Transportation; Planning.

Exercise Parameters: Energy Harbor and the State of Ohio will make Protective Action Recommendations (PAR) to Ashtabula County officials in the county Emergency Operations Center. The Ashtabula County officials will make the final Protective Action Decisions (PAD) regarding what protective actions will be recommended to the public of Ashtabula County.

Assessment	Venue	Extent of Play
Coordinate and make PADs for members of the general public.	Ashtabula County Emergency Operations Center	No Exceptions
Coordinate and make PADs for those with access and functional needs.	Ashtabula County Emergency Operations Center	No Exceptions
Coordinate and make PADs for students at schools.	Ashtabula County Emergency Operations Center	No Exceptions
Coordinate and make subsequent or alternate PADs.	Ashtabula County Emergency Operations Center	Exception: By discussion if not driven by scenario.
Coordinate and make decisions on the administration of KI (where applicable) for the public and institutionalized members of the population.	Ashtabula County Emergency Operations Center	No Exceptions

Capability Target 1.5: Protective Action Decision Implementation for the Plume Phase – Implement decisions for those populations and areas subject to plume phase protective actions.

Intent: The capability to implement precautionary protective action and/or PADs, including evacuation and/or sheltering, for all populations within the plume and ingestion exposure pathway EPZs. The populations include those with access and functional needs, students, and institutionalized individuals.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (A.4, C.2.a, G.1, J.11, J.11.a, J.11.b, J.11.c, J.11.e, J.11.g, and O.1)

Core Capabilities: Operational Coordination; Public Information and Warning; Environmental Response/Health and Safety; Critical Transportation; Health and Social Services; Housing; Natural and Cultural Resources; Planning

Exercise Parameters: No actual evacuations or demonstrations of shelter-in-place will occur. Phone calls and public notifications will be simulated. All transportation points of review will be demonstrated by interview/discussion. No actual transportation will occur.

Assessment	Venue	Extent of Play
Implement PADs, ensuring communication and coordination with all appropriate jurisdictions.	Ashtabula County Emergency Operations Center	See Exercise Parameters
Assist those with access and functional needs during the implementation of PADs.	Ashtabula County Emergency Operations Center	See Exercise Parameters
Communicate, coordinate, and implement protective actions for schools.	Ashtabula County Emergency Operations Center	See Exercise Parameters Emergency Operations Center School Services Representative Interview
Communicate with transportation officials.	Ashtabula County Emergency Operations Center	See Exercise Parameters
Identify evacuation routes for the general public.	Ashtabula County Emergency Operations Center	See Exercise Parameters

Capability Target 1.6: Protective Action Decisions for the Post-Plume – Appropriate PADs are based on available information for the post-plume phase.

Intent: The capability to assess the radiological consequences for the ingestion exposure pathway and post-plume phase, relate them to the appropriate PAGs, and make and coordinate timely, appropriate PADs to mitigate exposure.

Planning references: NUREG-0654/FEMA-REP-1, Rev. 2 (J.12, J.14, J.14.a-f, M.1, M.1.b, M.4, M.5, M.6, M.7, M.8, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Critical Transportation; Housing; Planning

Exercise Parameters: Not Selected for this exercise.

Capability Target 1.7: Protective Action Decision Implementation for the Post-Plume Phase - Implement decisions for those populations and areas subject to post-plume phase protective actions.

Intent: The capability to implement and coordinate PADs to mitigate exposure and address long-term radiological consequences.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (C.2, J.12, J.14, J.14.a-f, M.1, M.1.b, M.4, M.5, M.6, M.7, M.8, and O.1)

Core Capabilities: Operational Coordination; Public Information and Warning; Environmental Response/Health and Safety; Critical Transportation; Health and Social Services; Housing; Natural and Cultural Resources; Planning

Exercise Parameters: Not Selected for this exercise.

Objective 2: Exposure Control

Capability Target 2.1: Emergency Worker Exposure Control Decision-Making Process - A decision-making process involving consideration of appropriate factors and necessary coordination is used to ensure that an exposure control system is in place for emergency workers and includes the use of radioprotective drugs and procedures to authorize emergency exposures in excess of the PAGs.

Intent: The capability to assess and control the radiation exposure and dose received by emergency workers and utilize a decision-making chain to authorize emergency worker exposure limits to be exceeded for specific missions.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (C.2.c, H.11, K.2, K.2.b, K.3, K.3.a, M.1.b, M.8, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Planning

Exercise Parameters: Exposure control will be demonstrated at the out-of-sequence venues where applicable and may be demonstrated by interview/discussion with the Emergency Operations Center Radiological Officer and Law Enforcement Coordinator.

Assessment	Venue	Extent of Play
Control emergency workers' exposure and dose, including offsite workers performing duties onsite.	Ashtabula County Emergency Operations Center	No Exception
Maintain record of dose as a result of exposure.	EW Dosimetry Coordinator, Backup Route Alerting	No Exception
Authorize exposures and dose in excess of identified limits.	Ashtabula County Emergency Operations Center	By interview if not driven by the exercise.
Process for considering occupational exposures and to authorize individuals to receive doses in excess of occupational dose limits.	NA	State Function
Determine a correction factor for DRD-based isotopic release mixture	NA	State Function

Assessment	Venue	Extent of Play
Control exposure and dose for temporary reentry of emergency workers, or members of the public, to restricted areas.	Not Selected	Performed during county RRR exercise.
Determine the need to authorize radioprotective drugs using projected thyroid doses and field measurements. Projections are compared to previously established PAGs.	NA	State Function
Adequately protect members of the public from radiological exposure and control dose for those who are authorized to temporarily reenter a restricted area.	Not Selected	Performed during county RRR exercise.

Capability Target 2.2: Emergency Worker Exposure Control Management - Emergency workers manage radiological exposure and dose in accordance with the plans/procedures.

Intent: The capability of emergency workers to manage dose and exposure, use equipment (e.g., dosimetry, radio protective drugs), and identify procedures to monitor their exposure and dose, including following procedures to obtain authorization to receive emergency exposures in excess of the PAGs.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (C.2.c, H.11, H.11.b, K.2.b, K.3, K.3.a, M.1.b, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

Exercise Parameters: DRDs, PRDs and KI for emergency workers and institutionalized individuals are pre-distributed and described in the Ashtabula County Radiological Emergency Response Plan (RERP) and SOGs. In the event that the use of KI is recommended, players will simulate taking KI.

UNCLASSIFIED

Assessment	Venue	Extent of Play
Maintain an appropriate inventory of DRDs that are leak-tested or current in calibration.	All Venues	No Exceptions
Maintain an appropriate inventory of PRDs.	All Venues	No Exceptions
Retain an adequate supply of radioprotective drugs.	All Venues	No Exception
Adequately distribute appropriate DRDs and PRDs.	All Venues	No Exception
Adequately distribute radioprotective drugs to emergency workers.	All Venues	No Exception
Record and report exposures in the field.	EW Dosimetry Coordinator, Backup Route Alerting	No Exception
Implement decisions to administer radioprotective drugs.	EW Dosimetry Coordinator, Backup Route Alerting	Exception: Ingestion of KI will be simulated.
Report to individual responsible for managing exposure and dose when limits are reached.	All Venues	No Exception
Implement exposure control decisions to members of the public from radiological exposure and control dose for those who are authorized to temporarily reenter a restricted area.	Not Selected	Performed during county RRR exercise.

Objective 3: Alert and Notification

Capability Target 3.1: Communications - Communication processes, systems, and equipment are sufficient to support emergency Operations.

Intent: The capability to provide and maintain reliable communications with emergency personnel.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (E.1.a, E.3, F.1, F.1.a, F.1.b, F.1.c, F.3, and O.1)

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning Exercise Parameters: Ashtabula County will demonstrate multiple communications systems during an interview at Ashtabula County EMA and during the Emergency Operations Center portion of the exercise. Communications to the out-of-sequence venues will be simulated. No actual notifications to the public will be performed (sirens, EAS, ENS, press releases, etc.).

Assessment	Venue	Extent of Play
Utilize communication systems that are fully functional, continuously available, and redundant.	All Venues	No Exceptions A communication test will be performed with the State on the MARCS radio system
Maintain periodic test results and corrective actions on a real time basis.	Ashtabula County Emergency Operations Center	During interview with Emergency Operations Center Communications Officer.
Access at least one communication system that is independent of the commercial telephone system.	Ashtabula County Emergency Operations Center	During interview with Emergency Operations Center Communications Officer.
Manage the communication systems and ensure that all message traffic is handled without delays that might disrupt emergency Operations.	Ashtabula County Emergency Operations Center	No Exceptions
Identify and address any failures of the systems.	Ashtabula County Emergency Operations Center	No Exceptions
Transmit, receive, and understand messages (i.e., "content check").	Ashtabula County Emergency Operations Center	During Initial Notification process

Capability Target 3.2: Alert and Notification of the Public - Alert and notification of the public is completed in a timely manner.

Intent: The capability to provide instructions to the public.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (E.2, E.4, E.5, F.3, and O.1)

Core Capabilities: Public Information and Warning; Planning

Exercise Parameters: Alert and Notification of the public in Ashtabula County is a coordinated function with the Counties of Lake and Geauga. All EPZ counties have the ability to sound sirens, but Lake County sounds the entire EPZ by procedure. No actual notifications to the public will be performed (sirens, EAS, ENS, press releases, etc.).

Assessment	Venue	Extent of Play
ALERT AND NOTIFICATION SYSTEM: Sequentially provide an alert signal followed by an initial instructional message to populated areas.	Ashtabula Sheriff's Dispatch	Exception: Ashtabula County participates in the decision for alerting the public, but Lake County generates the EAS message and sounds the sirens. An interview with Dispatch about performing the backup actions for EAS and siren activation may be performed.
ALERT AND NOTIFICATION SYSTEM: Alert and notify the general public. – (Subsequent Alerts)	Ashtabula Sheriff's Dispatch	Same as above.
ALERT AND NOTIFICATION SYSTEM: Identify and address any failures of the system(s) or portion of a system(s).	Ashtabula County Emergency Operations Center	No Exception: See Electronic Notification System (ENS) for back-up methodology.
ALERT AND NOTIFICATION SYSTEM: Actual testing of the mobile public address system will be conducted at an agreed-upon location.	Geneva Fire Department	Exception: The mobile PA will be tested at the Fire Department. Use of the PA during the backup route alerting will be simulated.
ALERT AND NOTIFICATION SYSTEM: Secondary method: Electronic Notification System (ENS)	Ashtabula County Emergency Operations Center	Exception: The process may be discussed during interview with Emergency Operations Center Communications Officer or ACEMA Director.

UNCLASSIFIED

Assessment	Venue	Extent of Play
EMERGENCY ALERT SYSTEM: Identify the process to activate the EAS. -	Ashtabula County Emergency Operations Center	No Exception
EMERGENCY ALERT SYSTEM: Ensure that updated emergency information is disseminated in a timely manner.	Ashtabula County Emergency Operations Center	No Exception
EMERGENCY ALERT SYSTEM: Ensure that current emergency information is repeated at pre-established intervals.	Ashtabula County Emergency Operations Center	No Exception
EAS/NWS STATION: Identify the process to activate the EAS, to include the process to receive and then broadcast updated information/messages and verification of the message, if applicable.	Ashtabula County Emergency Operations Center	No Exception
EAS/NWS STATION: Broadcast the message on a 24-hour basis.	Ashtabula County Emergency Operations Center	Exception: By interview with ACEMA Director or designee.
ROUTE/ALTERNATE ALERTING	Geneva Fire Dept.	Exception: No lights/sirens will be used during the run. Exception: The vehicle will not impede or create a hazard for traffic. Vehicle speed may be adjusted so as not to impede traffic.

Capability Target 3.3: Emergency Information and Instructions for the Public and News Media - Accurate emergency information and instructions are provided to the public and the news media in a timely manner.

Intent: The capability to disseminate emergency information and instructions to the public during all phases of an incident.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (E.2, E.4, E.5, G.1, G.2, G.3, G.3.a, G.4, G.5, and O.1)

Core Capabilities: Public Information and Warning; Planning

Exercise Parameters: Ashtabula County will demonstrate this Capability Target by using pre-scripted messages as prescribed in plans and SOGs. Message content and delivery will be coordinated with Lake County Incident Command. Contact with media outlets will be simulated and no actual messages will be broadcast. No actual notifications to the public will be performed (sirens, EAS, ENS, press releases, etc.).

Assessment	Venue	Extent of Play
PLUME PHASE: Deliver coordinated, prompt, reliable, and actionable information in a timely manner.	Ashtabula County Emergency Operations Center/JIC	No Exception
PLUME PHASE: Provide clear, concise, accessible messaging using plain language.	Ashtabula County Emergency Operations Center/JIC	No Exception
PLUME PHASE: Messaging addresses appropriate cultural and linguistic considerations.	Ashtabula County Emergency Operations Center/JIC	Exception: Ashtabula County has less than 5% non-English speaking population.
PLUME PHASE: Ensure subsequent messaging is consistent with protective actions.	Ashtabula County Emergency Operations Center/JIC	No Exception

Assessment	Venue	Extent of Play
PLUME PHASE: Update information as the incident progresses, to include validating previously identified protective areas and clearly identifying any new protective action areas, any information that is no longer valid, and any changes to previously provided information (e.g., rerouting of evacuation routes due to impediments, etc.).	Ashtabula County Emergency Operations Center/JIC	No Exception
PLUME PHASE: Respond to media and public inquiries.	Ashtabula County Emergency Operations Center/JIC	No Exception
POST-PLUME PHASE: Rapidly disseminate of ingestion exposure pathway information to predetermined individuals and businesses.	Ashtabula County Emergency Operations Center/JIC	Not Selected – this is demonstrated during county RRR exercise.
POST-PLUME PHASE: Provide information to the public that addresses temporary reentry to a restricted area, permanent relocation from areas not evacuated, and return to formerly restricted areas will be communicated.	Ashtabula County Emergency Operations Center/JIC	Not Selected – this is demonstrated during county RRR exercise.

Objective 4: Detect Measure, Sample, Analyze, and Access

Exercise Parameters: Not Applicable: Entire objective is a State Function in both the plume and post-plume phases. Ashtabula County relies on dose projections and recommendations from the Perry Nuclear Power Plant and the State of Ohio for evacuation, shelter-in-place, and Potassium Iodide usage recommendations.

Objective 5: Operate

Capability Target 5.1: Monitoring, Decontamination, Sheltering, and Registration of Evacuees - Facilities, equipment, and procedures are in place and utilized to provide monitoring, decontamination, identification, temporary shelter, congregate care, and registration of evacuees.

Intent: The capability to implement radiological monitoring and decontamination of evacuees, and to identify, register, temporarily shelter, and provide congregate care for evacuees at reception centers.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (J.11.d, J.13, K.4, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Mass Care; Planning

Exercise Parameters: Not Selected.

Assessment	Venue	Extent of Play
Set up Operations:	Reception Center, Congregate Care Center	Exception – Not Selected
Operationally check instruments and equipment.	Reception Center	Exception – Not Selected
MONITORING: Attain and sustain the overall monitoring productivity rate per hour needed to monitor 20 percent of the plume exposure pathway EPZ population, including transients, within a 12-hour period at each facility. The monitoring productivity rate per hour is the number of evacuees that can be monitored, per hour, per location, by the total complement of monitors using an appropriate procedure.	Reception Center	Exception – Not Selected
MONITORING: Monitor evacuees, service animals, pets, vehicles, and possessions.	Reception Center	Exception – Not Selected

UNCLASSIFIED

Assessment	Venue	Extent of Play
Utilize trigger/action levels for determining the need for decontamination.	Reception Center	Exception – Not Selected
DECONTAMINATION: Decontaminate evacuees, and personal belongings, while limiting the spread of contamination.	Reception Center	Exception – Not Selected
DECONTAMINATION: Follow-up with any evacuee(s) who cannot be appropriately decontaminated for assessment; ensure the capability to provide evacuee-referrals.	Reception Center	Exception – Not Selected
VEHICLES: Monitor and decontaminate vehicles.	Reception Center	Exception – Not Selected
VEHICLES: Provide adequate, separate space for both contaminated and non-contaminated vehicles.	Reception Center	Exception – Not Selected
VEHICLES: Decontaminate evacuee vehicles based on trigger/action levels.	Reception Center	Exception – Not Selected
SHELTERING AND CONGREGATE CARE: Coordinate for incoming evacuees who have been monitored and, if necessary, decontaminated.	Congregate Care Center	Exception – Not Selected
SHELTERING AND CONGREGATE CARE: Establish shelter Operations.	Congregate Care Center	Exception – Not Selected
SHELTERING AND CONGREGATE CARE: Congregate care centers and Operations in host/support jurisdictions are sufficient to	Congregate Care Center	Exception – Not Selected

Assessment	Venue	Extent of Play
support the expected number of evacuees.		
REGISTRATION: Register evacuees.	Reception Center Congregate Care Center	Exception – Not Selected
REGISTRATION: Ensure the registration area is clean and controlled.	Reception Center Congregate Care Center	Exception – Not Selected

Capability Target 5.2: Monitoring and Decontamination of Emergency Workers, Equipment, and Vehicles - Facilities, equipment, and procedures are in place and utilized to provide monitoring and decontamination of emergency workers and their equipment and vehicles.

Intent: The capability to implement radiological monitoring and decontamination of emergency workers, equipment, and vehicles.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (K.4 and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

Exercise Parameters: Ashtabula County will demonstrate an Emergency Worker Monitoring and Decontamination Center (EW Dosimetry Coordinator). No live sources will be used, all contamination levels will be by controller inject. All decontamination will be demonstrated by discussion, no actual decontamination methods will be demonstrated. Equipment and supplies will be available for inspection.

Assessment	Venue	Extent of Play
Set up Operations:	EW Dosimetry Coordinator	Exception: Center will be set-up in advance of demonstration. Exception: Only one shower area will be set up. A floor plan of showering facilities for both males and females will be available for inspection. Exception: Disposable paper walkways will not be used. Walkways will be clearly outlined using cones and/or stanchions in order to minimize waste.

Operationally check instruments and equipment.	EW Dosimetry Coordinator	Exception: a minimum of one of each type of radiological monitoring instrument will be demonstrated.
Monitor emergency worker personnel and their equipment and vehicles for contamination.	EW Dosimetry Coordinator	Exception: Two Emergency Workers will be monitored for contamination, one (selected at random by the Controller) will be simulated contaminated. Exception: Monitoring of one vehicle will be demonstrated.
Decontaminate emergency worker personnel and their equipment and	EW Dosimetry Coordinator	Exception: Decontamination efforts will be procedurally explained by the workers. The

Assessment	Venue	Extent of Play
vehicles based on trigger/action levels.		contaminated Emergency Worker or vehicle will not undergo actual decontamination. Exception: The decision to refer individuals who cannot be decontaminated to medical facilities will be procedurally explained via evaluator interview.
Control the spread of contamination.	EW Dosimetry Coordinator	Exception: Disposable paper walkways will not be used. Walkways will be clearly outlined using cones and/or stanchions in order to minimize waste.
Create and maintain a record of monitoring and decontaminating workers upon completion of monitoring and decontamination activities.	EW Dosimetry Coordinator	No Exception
Process for prioritizing emergency workers and equipment before the public in facilities where the public and emergency workers are both processed for contamination.	NA	Exception: Public and Emergency Worker processing is done in separate facilities.

Capability Target 5.3: Transportation and Treatment of Contaminated Individuals - Transport contaminated, injured individuals to medical facilities with the capability to monitor and decontaminate.

Intent: The capability to provide medical transport and treatment services to contaminated, injured individuals.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (C.2.d, F.2, H.11, H.12, J.2, K.3, K.4, L.1, L.3, L.4, and O.1)

Core Capabilities: Environmental Response/Health and Safety; Public Health, Healthcare, Emergency Medical Services; Planning

Exercise Parameters: Not Selected for this exercise.

Capability Target 5.4: Traffic and Access Control - Appropriate traffic and access control is established; accurate instructions are provided to traffic and access control staff.

Intent: The capability to select, establish, and staff traffic and access control points and removing impediments to the flow of evacuation traffic.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (H.12, J.8, J.8.b, J.10, J.10.a, J.11.c, J.11.e, J.11.f, J.14.d, J.14.e, M.1.b, and O.1)

Core Capabilities: Critical Transportation; Access Control/Identity Verification; Environmental Response/Health and Safety; On-Scene Security, Protection, and Law Enforcement; Operational Coordination; Planning; Situational Assessment.

Exercise Parameters: The Traffic Access and Control Point (TACP) ability to provide instructions to TACP providers will be demonstrated through an interview with the Law Enforcement Coordinator in the Ashtabula County Emergency Operations Center. The TACP function will be demonstrated by an interview at TACP venue. No actual control point will be set up. Equipment will be available for inspection.

Assessment	Venue	Extent of Play
Select, establish, and staff appropriate Traffic and Access Control Points, consistent with current conditions and PADs (e.g., evacuating, sheltering, and relocation), in a timely manner.	Ashtabula County Emergency Operations Center	Exception: By interview with Law Enforcement Coordinator in Ashtabula County Emergency Operations Center.
Provide instructions to TACP staff on actions to take, including when modifications in protective action strategies necessitate changes in evacuation patterns or in the area(s) where access is controlled.	Ashtabula County Emergency Operations Center	Exception: By interview with Law Enforcement Coordinator in Ashtabula County Emergency Operations Center.

Contact the state or Federal agencies that have the authority for the different transportation modes (e.g., rail, water, and air traffic).	Not Applicable	State Function
Identify and take appropriate actions concerning impediments	Ashtabula County Emergency Operations Center	No Exception

Assessment	Venue	Extent of Play
that affect the evacuation and evacuation routes.		
Make the decision to re-route traffic and coordinate with key decision-makers and the JIC to ensure the alternate route information is appropriately communicated to evacuees.	Ashtabula County Emergency Operations Center	No Exception
Establish procedures to control access to and monitor people and vehicles from the evacuated and restricted areas.	Not Selected	Restricted area access accomplished during county RRR exercise.
Authorize reentry of individuals into the restricted areas.	Not Selected	Accomplished during County RRR exercise.
Establish exit procedures.	Not Selected	Accomplished during County RRR exercise.

Section 4: Demonstration Locations, Dates, Times, and Contacts

MONDAY, SEPT 26, 2022

BACK UP ROUTE ALERTING Operated by Geneva Fire Department		
Address:	Geneva Fire Department 44 North Forest St. Geneva, Ohio 44041	
Contact:	Dave Shook, Chief	
Telephone:		
Action Location:	Same as above	

UNCLASSIFIED

Date:	Monday, Sept 26, 2022	
Time:	6:30 p.m. - 8:30 p.m. EST	

TUESDAY, SEPT 27, 2022

EMERGENCY OPERATIONSS CENTER - Communications		
Address:	Ashtabula County Emergency Management Agency 17 North Market St. Jefferson, OH 44047	
Contact:	Mike Fitchet, Director	
Telephone:		
Action Location:	Same as above Emergency Operations Center is located 1 block East of the County Court House	
Date:	Tuesday, Sept 27, 2022	
Time:	7:30 a.m. – 1:00 p.m. EST. MARCS radio test at 08:00 a.m	

INITIAL NOTIFICATION – COUNTY SHERIFF’S DISPATCH CENTER		
Address:	Ashtabula County Sheriff’s Office Dispatch Center 25 West Jefferson St. Jefferson, OH 44047	
Contact:	Dispatcher on duty	
Telephone:		
Action Location:	County Sheriff’s Office Dispatch Center Same as above	
Date:	Tuesday, Sept 27, 2022	
Time:	7:30 a.m. – 9:00 a.m. EST	

JOINT INFORMATION CENTER – Licensee and Counties		
Address:	Auburn Career Center 8140 Auburn Rd. Concord, OH 44077	
Contact:	Mark Astorino, PIO	
Telephone:		
Action Location:	Same as above	
Date:	Tuesday, Sept 27, 2022	
Time:	8:00 a.m. – 1:00 p.m. EST	

TRAFFIC & ACCESS CONTROL – Ashtabula County Sheriff's Office		
Address:	ACSO – Emergency Operations Center Law Enforcement Coordinator 17 North Market St. Jefferson, OH 44047	
Contact:	Emergency Operations Center Law Enforcement Coordinator	
Telephone:		
Action Location:	Same as above	
Date:	Tuesday, Sept 27, 2022	
Time:	8:00a.m. – 1:00 p.m. EST	

WEDNESDAY, JUNE 8, 2022

EMERGENCY WORKER MONITORING/DECOMTAMINATION CENTER Operated by Ashtabula, Ashtabula Twp, Saybrook, and Conneaut Fire Depts.		
Address:	Lakeside Junior High School 6620 Sanborn Road Ashtabula, Oh 44004	
Contact:	John Jyurovat, Chief, Saybrook FD	
Telephone:		
Action Location:	Same as above	
Date:	Wednesday, Sept 28, 2022	
Time:	5:30 p.m. – 7:30 p.m.	

Section 5: Back-up Documentation

Re-demonstration Criterion

1.1/1a1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader

1.2/1c1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader OR may be re-demonstrated as approved on a case-by-case basis by the Chairperson of the Regional Assistance Committee

- 1.3/2b1 – May be re-demonstrated as approved on a case-by-case basis by the Chairperson of the Regional Assistance Committee
- 1.4/2b2 – May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee
- 1.4/2c1 – May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee
- 1.5/3b1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 1.5/3c1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 1.5/3c2 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 1.6/2d1 – May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee
- 1.6/2e1 – May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee
- 1.7/3e1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 1.7/3e2 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 1.7/3f1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 2.1/2a1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 2.2/3a1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 3.1/1d1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 3.2/5a1 – May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee
- 3.2/5a3 – May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee
- 3.2/5a4 – May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee
- 3.3/5b1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader OR may be re-demonstrated as approved on a case-by-case basis by the Chairperson of the Regional Assistance Committee

5.1/6a1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader

5.1/6c1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader

5.2/6b1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader

5.3/6d1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader

5.4/3d1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader

5.4/3d2 – May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance
Committee

5.4/(new) Reentry – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader

Section 6: Acronyms

UNCLASSIFIED

ACEMA	Ashtabula County Emergency Management Agency
ACSO	Ashtabula County Sheriff's Office
EMA	Emergency Management Agency
EOC	Emergency Operations Center
EW Dosimetry Coordinator	Emergency Worker Decontamination Center
FDs	Fire Departments
JIC	Joint Information Center
ORO	Offsite Response Organization
RRR	Relocate/Reentry/Return

Nuclear Power Plant Exercise

Perry Nuclear Power Plant

Radiological Emergency Preparedness (REP) Program

Extent-of-Play Agreement for Geauga County



September 27, 2022

Extent-of-Play Agreement

Table of Contents

Section 1: Exercise Overview	2
Overarching Purpose	2
Scope	2
Table 1 – Schedule of Activities	3
Section 2: Extent-of-Play Agreement	6
Standards & References	6
Exercise Participants	6
Signatures & Conditions.....	7
Section 3: Objectives and Exceptions	8
Objective 1: Emergency Operations Management.....	8
Objective 2: Exposure Control.....	14
Objective 3: Alert and Notification	17
Objective 4: Detect Measure, Sample, Analyze, and Access.....	21
Objective 5: Operate	22
Section 4: Demonstration Locations, Dates, Times, and Contacts	29
Section 5: Back-up Documentation	33
Section 6: Acronyms	35

Section 1: Exercise Overview

Overarching Purpose

The purpose of this extent of play agreement (EOP) identifies the conditions that will be used to conduct, control and evaluate the 2022 Perry Nuclear Power Plant Evaluated Exercise, as agreed to by the offsite response organizations and Federal Emergency Management Agency (FEMA) Region 5, Radiological Assistance Committee (RAC) Chair.

The extent-of-play agreement is negotiated during the exercise planning process and documents deviations from activities as described in plans and procedures for exercise demonstration purposes. The extent-of-play agreement identifies the Capability Targets that will be evaluated during the exercise, including any exceptions, as well as the entities responsible for demonstrating the Capability Targets.

Scope

The exercise has both In-Sequence and Out-of-Sequence demonstration activities.

In-Sequence activities will occur the morning of September 27, 2022, from approximately 0730-1300 Eastern Standard Time (EST). Geauga County will fully participate in this exercise, sufficient to support the demonstrations described in this EOP. The State of Ohio will partially participate sufficient to support Geauga County response Operations. (See State of Ohio Extent-of-Play Agreement).

This is a Hostile Action Based (HAB) exercise which will result in the establishment of an Incident Command Post in Lake County to support law enforcement activities.

In-Sequence activities will be conducted at the following locations:

- County Initial Warning Point (Sheriff's Office Dispatch Center)
- Emergency Operations Center (Emergency Operations Center)
- Incident Command Post (ICP) – Lake County Only
- Joint Information Center (JIC)

Out of Sequence activities will be managed by the Lead Controller at each field location and will be run independently. All demonstrations will commence promptly and, barring any complications, not continue past the end time. (See Table – 1)

Demonstration Windows

Demonstration windows are those periods of time designated in the exercise during which specified demonstrations will be accomplished.

The schedule of activities including OROs, locations, dates, and times for In-Sequence, Field and Out-of-Sequence Play activities are summarized in Table 1 below. Additional information is provided in Section 4.

Table 1 – Schedule of Activities

Activity	ORO/Location	Date/Time
Initial Notification (1)	Sheriff's Office Dispatch Center	Tuesday, Sept 27, 2022 7:30 AM (estimated)
Geauga County Emergency Operations Center Operations	Geauga County DES	Tuesday, Sept 27, 2022 7:30 AM – 01:00 PM
Joint Information Center (JIC)	Licensee and Counties/Auburn Career Center	Tuesday, Sept 27, 2022. 8:00 AM – 1:00 PM
Traffic/Access Control (TACP)	Geauga County Sheriff's Office/Emergency Operations Center	Tuesday, Sept 27, 2022. 8:00 AM – 1:00 PM
Public Reception Center	Munson and Newbury FDs/Dosimetry Coordinator	Wednesday, Sept 28, 2022 6:00 PM – 9:00 PM
Congregate Care Center	Red Cross/Dosimetry Coordinator	Wednesday, Sept 28, 2022 6:00 PM – 9:00 PM

(1) – If the scenario is not initiated at the Initial Notification Point, FEMA will conduct an interview of the Sheriff's Dispatch staff.

Re-demonstration

All activities will be demonstrated fully in accordance with respective plans and procedures as they would be in an actual emergency. This extent-of-play agreement is written by exception. If an exception is not included below then the activity will be demonstrated as described in plans and/or procedures. Any issue or discrepancy arising during the Perry Nuclear Power Plant Exercise may be re-demonstrated during the week of exercise play, Sept 26 through Sept 29, 2022, if allowed by the RAC Chair, or as listed in Section 5. This allowance may be granted if it is not disruptive to exercise play and is mutually agreed to by the lead offsite response organization controller and lead FEMA evaluator. Issues resolved as a result of a re-demonstration will be noted as Findings resolved through re- demonstration.

Demonstration Criteria impacted by No/Minimal Release and/or Limited EAL Escalations:

A no/minimal release scenario would not necessarily require Protective Action Recommendations and Protective Action Decisions (PARs/PADs), including the use of KI, to limit the exposure of the public and/or emergency workers. These Evaluation Criteria will be met if the decision-making process is adequately demonstrated in accordance with plans and procedures and the result is consistent with the exercise scenario. Objectives or points of review not demonstrated will be augmented by evaluator interview.

Activities, Core Capabilities, and Exercise Objectives

Activity	Core Capability	Exercise Objective
Initial Notification Point	Operational Communications	Objective 1: Emergency Operations Management Objective 3: Alert and Notification
County Emergency Operations Center	Operational Coordination Public Information and Warning	Objective 1: Emergency Operations Management Objective 2: Exposure Control Objective 3: Alert and Notification
Joint Information Center	Operational Communications	Objective 3: Alert and Notification
Public Reception Center	Operational Coordination Environmental Response/Health and Safety Mass Care	Objective 2: Exposure Control Objective 5: Operate
Congregate Care Center	Mass Care	Objective 5: Operate
Traffic and Access Control	Access Control Operational Coordination Critical Transportation	Objective 2: Exposure Control Objective 5: Operate

Section 2: Extent-of-Play Agreement

Standards & References

Geauga County OROs will use the following references, plans, and procedures during exercise play:

- Geauga County Radiological Emergency Response Plan, Revision 28, January 2022.
- Department of Homeland Security/Federal Emergency Management Agency REP Program Manual December 2019
- NUREG 0654/FEMA REP 1 Rev. 2
- Geauga County Suggested Operational Guidance, latest revisions.

Exercise Participants

County and local Offsite Response Organizations (ORO) that will participate in this exercise may include but are not limited to the following:

- Geauga County Emergency Management Agency

- Geauga County Sheriff's Office
- Munson Fire Department
- Newbury Fire Department
- American Red Cross

Signatures & Conditions

The following agree to support this exercise as described herein:

Exercise Director	Representative of Participating Organization
Jeff Archer Exercise Director Perry Nuclear Power Plant Energy Harbor	Roger Peterson Director, Geauga County DES Gauga County DES
	[Name of Representative] Mike Vatty, Chief Munson Fire Department
	[Name of Representative] Ken Fagan, Chief Newbury Fire Department
	[Name of Representative] Thomas R Revolinsky, Disaster Program Manager American Red Cross
	Scott Hildenbrand Gauga County Sheriff Gauga County Sheriff's Office

Section 3: Objectives and Exceptions

Objective 1: Emergency Operations Management

Capability Target 1.1: Mobilization - Individuals with roles in support of emergency Operations are identified, alerted, and mobilized in a timely manner.

Intent: The capability to alert, notify, and mobilize OROs to staff facilities in support of emergency Operations.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (A.1, A.1.a, A.1.b, A.3, A.4, A.5, C.1, C.2, C.2.a, C.2.b, C.3, E.1, E.1.a, E.3, F.1.c, H.6, and O.1)

Core Capabilities: Operational Coordination, Planning

Exercise Parameters: Geauga County intends to fully activate the County Emergency Operations Center (Emergency Operations Center) in Chardon, Ohio. The County will implement notification procedures as defined in Plans and SOGs.

Assessment	Venue	Extent of Play
Alert, notify, and mobilize key personnel, to include a 24-hour staffing roster, and activate facilities in a timely manner.	All Venues	Exception: Some participants, players, etc. will be prepositioned in local area. Players will not begin their assigned exercise roles until notification is received.
Receive and verify notifications.	Gauga County Emergency Operations Center	No Exceptions
Identify and request additional resources, as needed.	All Venues	Exception: Agencies outside this EOP may be requested, but response will be simulated.
Determine a facility is Operational.	All Venues	No Exceptions

Capability Target 1.2: Direction and Control - Individuals in leadership roles provide direction and control to the portion of the overall response effort for which they are responsible.

Intent: The capability to provide overall direction and control of response efforts, commensurate with the responsibilities of leadership, as detailed in plans/procedures.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (A.1, A.1.a, A.1.b, A.1.c, A.2, A.3, A.5, C.2, C.2.a, C.2.b, C.3, D.4, E.1, H.6, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

Exercise Parameters: Decision Making will be demonstrated at the Geauga County Emergency Operations Center. Coordination of decisions and emergency activities will be demonstrated between the State of Ohio, Lake County and Geauga County

Assessment	Venue	Extent of Play
Support protective action decision-making.	Gauga County Emergency Operations Center	No Exceptions
Conduct briefings in a timely manner.	Gauga County Emergency Operations Center	No Exceptions
Maintain Situational Awareness	All Venues	No Exceptions
Coordinate response activities with other organizations.	Gauga County Emergency Operations Center	No Exceptions
Obtain resources to support emergency Operations	All Venues	Exceptions: by discussion if not already available at venue.
Provide and maintain adequate facilities and equipment to support the emergency response.	All Venues	No Exceptions

Capability Target 1.3: Protective Action Recommendations – Appropriate PARs are selected based on available information and other factors.

Intent: The capability to use dose assessment and field data, compare this data to the PAGs, and choose among a range of protective actions those most appropriate in a given emergency.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (D.4, J.7, J.8, J.8.b, J.9, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Planning

Exercise Parameters: Not Selected, this is a Licensee and State Function.

Capability Target 1.4: Protective Action Decisions for the Plume Phase – Appropriate PADs are based on available information for the plume phase.

Intent: The capability to utilize appropriate factors and necessary coordination in the decision-making process used to make PADs for the public.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (D.1.b, D.4, J.6, J.7, J.8, J.8.b, J.10, J.10.a, J.10.b, J.11.c-g, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Critical Transportation; Planning.

Exercise Parameters: Energy Harbor and the State of Ohio will make Protective Action Recommendations (PAR) to Geauga County officials in the county Emergency Operations Center. The Geauga County officials will make the final Protective Action Decisions (PAD) regarding what protective actions will be recommended to the public of Geauga County.

Assessment	Venue	Extent of Play
Coordinate and make PADs for members of the general public.	Gauga County Emergency Operations Center	No Exceptions
Coordinate and make PADs for those with access and functional needs.	Gauga County Emergency Operations Center	No Exceptions
Coordinate and make PADs for students at schools.	Gauga County Emergency Operations Center	No Exceptions
Coordinate and make subsequent or alternate PADs.	Gauga County Emergency Operations Center	Exception: By discussion if not driven by scenario.
Coordinate and make decisions on the administration of KI (where applicable) for the public and institutionalized members of the population.	Gauga County Emergency Operations Center	No Exceptions

Capability Target 1.5: Protective Action Decision Implementation for the Plume Phase – Implement decisions for those populations and areas subject to plume phase protective actions.

Intent: The capability to implement precautionary protective action and/or PADs, including evacuation and/or sheltering, for all populations within the plume and ingestion exposure pathway EPZs. The populations include those with access and functional needs, students, and institutionalized individuals.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (A.4, C.2.a, G.1, J.11, J.11.a, J.11.b, J.11.c, J.11.e, J.11.g, and O.1)

Core Capabilities: Operational Coordination; Public Information and Warning; Environmental Response/Health and Safety; Critical Transportation; Health and Social Services; Housing; Natural and Cultural Resources; Planning

Exercise Parameters: No actual evacuations or demonstrations of shelter-in-place will occur. Phone calls and public notifications will be simulated. All transportation points of review will be demonstrated by interview/discussion. No actual transportation will occur.

Assessment	Venue	Extent of Play
Implement PADs, ensuring communication and coordination with all appropriate jurisdictions.	Geauga County Emergency Operations Center	See Exercise Parameters
Assist those with access and functional needs during the implementation of PADs.	Geauga County Emergency Operations Center	See Exercise Parameters
Communicate, coordinate, and implement protective actions for schools.	Geauga County Emergency Operations Center	See Exercise Parameters Emergency Operations Center School Services Representative Interview
Communicate with transportation officials.	Geauga County Emergency Operations Center	See Exercise Parameters
Identify evacuation routes for the general public.	Geauga County Emergency Operations Center	See Exercise Parameters

Capability Target 1.6: Protective Action Decisions for the Post-Plume - Appropriate PADs are based on available information for the post-plume phase.

Intent: The capability to assess the radiological consequences for the ingestion exposure pathway and post-plume phase, relate them to the appropriate PAGs, and make and coordinate timely, appropriate PADs to mitigate exposure.

Planning references: NUREG-0654/FEMA-REP-1, Rev. 2 (J.12, J.14, J.14.a-f, M.1, M.1.b, M.4, M.5, M.6, M.7, M.8, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Critical Transportation; Housing; Planning

Exercise Parameters: Not Selected for this exercise.

Capability Target 1.7: Protective Action Decision Implementation for the Post-Plume Phase - Implement decisions for those populations and areas subject to post-plume phase protective actions.

Intent: The capability to implement and coordinate PADs to mitigate exposure and address long-term radiological consequences.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (C.2, J.12, J.14, J.14.a-f, M.1, M.1.b, M.4, M.5, M.6, M.7, M.8, and O.1)

Core Capabilities: Operational Coordination; Public Information and Warning; Environmental Response/Health and Safety; Critical Transportation; Health and Social Services; Housing; Natural and Cultural Resources; Planning

Exercise Parameters: Not Selected for this exercise.

Objective 2: Exposure Control

Capability Target 2.1: Emergency Worker Exposure Control Decision-Making Process - A decision-making process involving consideration of appropriate factors and necessary coordination is used to ensure that an exposure control system is in place for emergency workers and includes the use of radioprotective drugs and procedures to authorize emergency exposures in excess of the PAGs.

Intent: The capability to assess and control the radiation exposure and dose received by emergency workers and utilize a decision-making chain to authorize emergency worker exposure limits to be exceeded for specific missions.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (C.2.c, H.11, K.2, K.2.b, K.3, K.3.a, M.1.b, M.8, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Planning

Exercise Parameters: Exposure control will be demonstrated at the out-of-sequence venues where applicable and may be demonstrated by interview/discussion with the Emergency Operations Center Radiological Officer and Law Enforcement Coordinator.

Assessment	Venue	Extent of Play
Control emergency workers' exposure and dose, including offsite workers performing duties onsite.	Geauga County Emergency Operations Center	No Exception
Maintain record of dose as a result of exposure.	Reception Center	No Exception
Authorize exposures and dose in excess of identified limits.	Geauga County Emergency Operations Center	By interview if not driven by the exercise.

Process for considering occupational exposures and to authorize individuals to receive doses in excess of occupational dose limits.	Not Applicable	State Function
Determine a correction factor for DRD-based isotopic release mixture	Not Applicable	State Function

Assessment	Venue	Extent of Play
Control exposure and dose for temporary reentry of emergency workers, or members of the public, to restricted areas.	Not Selected	Performed during county RRR exercise.
Determine the need to authorize radioprotective drugs using projected thyroid doses and field measurements. Projections are compared to previously established PAGs.	Not Applicable	State Function
Adequately protect members of the public from radiological exposure and control dose for those who are authorized to temporarily reenter a restricted area.	Not Selected	Performed during county RRR exercise.

Capability Target 2.2: Emergency Worker Exposure Control Management - Emergency workers manage radiological exposure and dose in accordance with the plans/procedures.

Intent: The capability of emergency workers to manage dose and exposure, use equipment (e.g., dosimetry, radio protective drugs), and identify procedures to monitor their exposure and dose, including following procedures to obtain authorization to receive emergency exposures in excess of the PAGs.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (C.2.c, H.11, H.11.b, K.2.b, K.3, K.3.a, M.1.b, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

UNCLASSIFIED

Exercise Parameters: DRDs, PRDs and KI for emergency workers and institutionalized individuals are pre-distributed and described in the Geauga County Radiological Emergency Response Plan (RERP) and SOGs. In the event that the use of KI is recommended, players will simulate taking KI.

Assessment	Venue	Extent of Play
Maintain an appropriate inventory of DRDs that are leak-tested or current in calibration.	All Venues	No Exceptions
Maintain an appropriate inventory of PRDs.	All Venues	No Exceptions
Retain an adequate supply of radioprotective drugs.	All Venues	No Exception
Adequately distribute appropriate DRDs and PRDs.	All Venues	No Exception
Adequately distribute radioprotective drugs to emergency workers.	All Venues	No Exception
Record and report exposures in the field.	Reception Center	No Exception
Implement decisions to administer radioprotective drugs.	Reception Center, Congregate Care Center	Exception: Ingestion of KI will be simulated.
Report to individual responsible for managing exposure and dose when limits are reached.	All Venues	No Exception
Implement exposure control decisions to members of the public from radiological exposure and control dose for those who are authorized to temporarily reenter a restricted area.	Not Selected	Performed during county RRR exercise.

Objective 3: Alert and Notification

Capability Target 3.1: Communications - Communication processes, systems, and equipment are sufficient to support emergency Operations.

Intent: The capability to provide and maintain reliable communications with emergency personnel.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (E.1.a, E.3, F.1, F.1.a, F.1.b, F.1.c, F.3, and O.1)

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

Exercise Parameters: Geauga County will demonstrate multiple communications systems during an interview at Geauga County EMA and during the Emergency Operations Center portion of the exercise. Communications to the out-of-sequence venues will be simulated. No actual notifications to the public will be performed (sirens, EAS, ENS, press releases, etc.).

Assessment	Venue	Extent of Play
Utilize communication systems that are fully functional, continuously available, and redundant.	All Venues	No Exceptions A communication test will be performed with the State on the MARCS radio system
Maintain periodic test results and corrective actions on a real time basis.	Gauga County Emergency Operations Center	During interview with Emergency Operations Center Communications Officer.
Access at least one communication system that is independent of the commercial telephone system.	Gauga County Emergency Operations Center	During interview with Emergency Operations Center Communications Officer.
Manage the communication systems and ensure that all message traffic is handled without delays that might disrupt emergency Operations.	Gauga County Emergency Operations Center	No Exceptions
Identify and address any failures of the systems.	Gauga County Emergency Operations Center	No Exceptions
Transmit, receive, and understand messages (i.e., "content check").	Gauga County Emergency Operations Center	During Initial Notification process

Capability Target 3.2: Alert and Notification of the Public - Alert and notification of the public is completed in a timely manner.

Intent: The capability to provide instructions to the public.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (E.2, E.4, E.5, F.3, and O.1)

Core Capabilities: Public Information and Warning; Planning

Exercise Parameters: Alert and Notification of the public in Geauga County is a coordinated function with the Counties of: Lake County and Ashtabula County. All EPZ counties have the ability to sound sirens, but Lake County sounds the entire EPZ by procedure. No actual notifications to the public will be performed (sirens, EAS, ENS, press releases, etc.).

Assessment	Venue	Extent of Play
ALERT AND NOTIFICATION SYSTEM: Sequentially provide an alert signal followed by an initial instructional message to populated areas.	Gauga Sheriff's Dispatch	Exception: Geauga County participates in the decision for alerting the public, but Lake County generates the EAS message and sounds the sirens. An interview with Dispatch about performing the backup actions for EAS and siren activation may be performed.
ALERT AND NOTIFICATION SYSTEM: Alert and notify the general public. – (Subsequent Alerts)	Gauga Sheriff's Dispatch	Same as above.
ALERT AND NOTIFICATION SYSTEM: Identify and address any failures of the system(s) or portion of a system(s).	Gauga County Emergency Operations Center	No Exception – See Electronic Notification System (ENS) for back-up methodology.
ALERT AND NOTIFICATION SYSTEM: Actual testing of the mobile public address system will be conducted at an agreed-upon location.	Not selected	Exception: Not selected.
ALERT AND NOTIFICATION SYSTEM: Secondary method: Electronic Notification System (ENS)	Gauga County Emergency Operations Center	Exception: The process may be discussed during interview with Emergency Operations Center Communications Officer or GCEMA Director.

UNCLASSIFIED

Assessment	Venue	Extent of Play
EMERGENCY ALERT SYSTEM: Identify the process to activate the EAS. -	Geauga County Emergency Operations Center	No Exception
EMERGENCY ALERT SYSTEM: Ensure that updated emergency information is disseminated in a timely manner.	Geauga County Emergency Operations Center	No Exception
EMERGENCY ALERT SYSTEM: Ensure that current emergency information is repeated at pre-established intervals.	Geauga County Emergency Operations Center	No Exception
EAS/NWS STATION: Identify the process to activate the EAS, to include the process to receive and then broadcast updated information/messages and verification of the message, if applicable.	Geauga County Emergency Operations Center	No Exception
EAS/NWS STATION: Broadcast the message on a 24-hour basis.	Geauga County Emergency Operations Center	Exception: By interview with GCEMA Director or designee.
ROUTE/ALTERNATE ALERTING	Not selected	Exception: Not selected – performed by Thompson FD in 2018

Capability Target 3.3: Emergency Information and Instructions for the Public and News Media - Accurate emergency information and instructions are provided to the public and the news media in a timely manner.

Intent: The capability to disseminate emergency information and instructions to the public during all phases of an incident.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (E.2, E.4, E.5, G.1, G.2, G.3, G.3.a, G.4, G.5, and O.1)

Core Capabilities: Public Information and Warning; Planning

Exercise Parameters: Geauga County will demonstrate this Capability Target by using pre-scripted messages as prescribed in plans and SOGs. Message content and delivery will be coordinated with Lake County Incident Command. Contact with media outlets will be simulated and no actual messages will be broadcast. No actual notifications to the public will be performed (sirens, EAS, ENS, press releases, etc.).

UNCLASSIFIED

Assessment	Venue	Extent of Play
PLUME PHASE: Deliver coordinated, prompt, reliable, and actionable information in a timely manner.	Geauga County Emergency Operations Center/JIC	No Exception
PLUME PHASE: Provide clear, concise, accessible messaging using plain language.	Geauga County Emergency Operations Center/JIC	No Exception
PLUME PHASE: Messaging addresses appropriate cultural and linguistic considerations.	Geauga County Emergency Operations Center/JIC	Exception: Geauga County has less than 5% non-English speaking population.
PLUME PHASE: Ensure subsequent messaging is consistent with protective actions.	Geauga County Emergency Operations Center/JIC	No Exception

Assessment	Venue	Extent of Play
PLUME PHASE: Update information as the incident progresses, to include validating previously identified protective areas and clearly identifying any new protective action areas, any information that is no longer valid, and any changes to previously provided information (e.g., rerouting of evacuation routes due to impediments, etc.).	Geauga County Emergency Operations Center/JIC	No Exception
PLUME PHASE: Respond to media and public inquiries.	Geauga County Emergency Operations Center/JIC	No Exception
POST-PLUME PHASE: Rapidly disseminate of ingestion exposure pathway information to predetermined individuals and businesses.	Geauga County Emergency Operations Center/JIC	Not Selected – this is demonstrated during county RRR exercise.

POST-PLUME PHASE: Provide information to the public that addresses temporary reentry to a restricted area, permanent relocation from areas not evacuated, and return to formerly restricted areas will be communicated.	Geauga County Emergency Operations Center/JIC	Not Selected – this is demonstrated during county RRR exercise.
---	---	---

Objective 4: Detect Measure, Sample, Analyze, and Access

Exercise Parameters: Not Applicable: Entire objective is a State Function in both the plume and post-plume phases. Geauga County relies on dose projections and recommendations from the Perry Nuclear Power Plant and the State of Ohio for evacuation, shelter-in-place, and Potassium Iodide usage recommendations.

Objective 5: Operate

Capability Target 5.1: Monitoring, Decontamination, Sheltering, and Registration of Evacuees - Facilities, equipment, and procedures are in place and utilized to provide monitoring, decontamination, identification, temporary shelter, congregate care, and registration of evacuees.

Intent: The capability to implement radiological monitoring and decontamination of evacuees, and to identify, register, temporarily shelter, and provide congregate care for evacuees at reception centers.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (J.11.d, J.13, K.4, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Mass Care; Planning

Exercise Parameters: Geauga County will demonstrate a reception center where monitoring, decontamination and registration of evacuees takes place, and a separate congregate care center for temporary shelter. No live sources will be used, all contamination levels will be by controller inject. All decontamination will be demonstrated by discussion, no actual decontamination methods will be demonstrated. Equipment and supplies will be available for inspection.

Assessment	Venue	Extent of Play
Set up Operations:	Reception Center, Congregate Care Center/Dosimetry Coordinator	<p>Exception: Centers will be set-up in advance of demonstration.</p> <p>Exception: Where applicable only one shower area will be set up. A floor plan of showering facilities for both males and females will be available for inspection</p> <p>Exception: Disposable paper walkways will not be used. Walkways will be clearly outlined using cones and/or stanchions in order to minimize waste.</p>
Operationally check instruments and equipment.	Reception Center/Dosimetry Coordinator	Exception: A minimum of one of each type of radiological monitoring instrument will be demonstrated.

Assessment	Venue	Extent of Play
MONITORING: Attain and sustain the overall monitoring productivity rate per hour needed to monitor 20 percent of the plume exposure pathway EPZ population, including transients, within a 12-hour period at each facility. The monitoring productivity rate per hour is the number of evacuees that can be monitored, per hour, per location, by the total complement of monitors using an appropriate procedure.	Reception Center/Dosimetry Coordinator	<p>Demonstrated through plan review which shows calculations.</p> <p>A total of six potentially contaminated individuals will pass through a portal monitor. In consultation with the evaluator, controller will select one evacuee at random to be designated as contaminated.</p>
MONITORING: Monitor evacuees, service animals, pets, vehicles, and possessions.	Reception Center/Dosimetry Coordinator	Exception: No pets or service animals will be monitored
Utilize trigger/action levels for determining the need for decontamination.	Reception Center/Dosimetry Coordinator	See Exercise Parameters.

UNCLASSIFIED

DECONTAMINATION: Decontaminate evacuees, and personal belongings, while limiting the spread of contamination.	Reception Center/Dosimetry Coordinator	Exception: Evacuee decontamination will be walked through and explained procedurally by workers. Evacuee will not undergo actual decontamination.
DECONTAMINATION: Follow-up with any evacuee(s) who cannot be appropriately decontaminated for assessment; ensure the capability to provide evacuee-referrals.	Reception Center/Dosimetry Coordinator	Exception: The decision to refer individuals who cannot be decontaminated to medical facilities will be procedurally explained via evaluator interview.
VEHICLES: Monitor and decontaminate vehicles.	Reception Center/Dosimetry Coordinator	Exception: Monitoring of one vehicle will be demonstrated. Exception: Decontamination of vehicles will be by interview only.

Assessment	Venue	Extent of Play
VEHICLES: Provide adequate, separate space for both contaminated and non-contaminated vehicles.	Reception Center/Dosimetry Coordinator	No Exception
VEHICLES: Decontaminate evacuee vehicles based on trigger/action levels.	Reception Center/Dosimetry Coordinator	Exception: Decontamination of vehicles will be by interview only.
SHELTERING AND CONGREGATE CARE: Coordinate for incoming evacuees who have been monitored and, if necessary, decontaminated.	Congregate Care Center/Dosimetry Coordinator	No Exception
SHELTERING AND CONGREGATE CARE: Establish shelter Operations.	Congregate Care Center/Dosimetry Coordinator	Exception: A sample of evacuee bedding and provisions will be shown.

SHELTERING AND CONGREGATE CARE: Congregate care centers and Operations in host/support jurisdictions are sufficient to support the expected number of evacuees.	Congregate Care Center/Dosimetry Coordinator	No Exception
REGISTRATION: Register evacuees.	Reception Center Congregate Care Center/Dosimetry Coordinator	Exception: Initial registration of evacuees who are found not to be contaminated will be demonstrated concurrently with evacuee decontamination.
REGISTRATION: Ensure the registration area is clean and controlled.	Reception Center Congregate Care Center/Dosimetry Coordinator	No Exception

Capability Target 5.2: Monitoring and Decontamination of Emergency Workers, Equipment, and Vehicles - Facilities, equipment, and procedures are in place and utilized to provide monitoring and decontamination of emergency workers and their equipment and vehicles.

Intent: The capability to implement radiological monitoring and decontamination of emergency workers, equipment, and vehicles.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (K.4 and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

Exercise Parameters: Not selected.

Assessment	Venue	Extent of Play
Set up Operations:	EW Dosimetry Coordinator	Exception – Not Selected
Operationally check instruments and equipment.	EW Dosimetry Coordinator	Exception – Not Selected
Monitor emergency worker personnel and their equipment and vehicles for contamination.	EW Dosimetry Coordinator	Exception – Not Selected

Decontaminate emergency worker personnel and their equipment and vehicles based on trigger/action levels.	EW Dosimetry Coordinator	Exception – Not Selected
Control the spread of contamination.	EW Dosimetry Coordinator	Exception – Not Selected
Create and maintain a record of monitoring and decontaminating workers upon completion of monitoring and decontamination activities.	EW Dosimetry Coordinator	Exception – Not Selected
Process for prioritizing emergency workers and equipment before the public in facilities where the public	EW Dosimetry Coordinator	Exception – Not Selected

Assessment	Venue	Extent of Play
and emergency workers are both processed for contamination.		

Capability Target 5.3: Transportation and Treatment of Contaminated Individuals - Transport contaminated, injured individuals to medical facilities with the capability to monitor and decontaminate.

Intent: The capability to provide medical transport and treatment services to contaminated, injured individuals.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (C.2.d, F.2, H.11, H.12, J.2, K.3, K.4, L.1, L.3, L.4, and O.1)

Core Capabilities: Environmental Response/Health and Safety; Public Health, Healthcare, Emergency Medical Services; Planning

Exercise Parameters: Not Selected for this exercise.

Capability Target 5.4: Traffic and Access Control - Appropriate traffic and access control is established; accurate instructions are provided to traffic and access control staff.

Intent: The capability to select, establish, and staff traffic and access control points and removing impediments to the flow of evacuation traffic.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (H.12, J.8, J.8.b, J.10, J.10.a, J.11.c, J.11.e, J.11.f, J.14.d, J.14.e, M.1.b, and O.1)

Core Capabilities: Critical Transportation; Access Control/Identity Verification; Environmental Response/Health and Safety; On-Scene Security, Protection, and Law Enforcement; Operational Coordination; Planning; Situational Assessment.

Exercise Parameters: The Traffic Access and Control Point (TACP) ability to provide instructions to TACP providers will be demonstrated through an interview with the Law Enforcement Coordinator in the Geauga County Emergency Operations Center. The TACP function will be demonstrated by an interview at TACP venue. No actual control point will be set up. Equipment will be available for inspection.

Assessment	Venue	Extent of Play
Select, establish, and staff appropriate Traffic and Access Control Points, consistent with current conditions and PADs (e.g., evacuating, sheltering, and relocation), in a timely manner.	Gauga County Emergency Operations Center	Exception: By interview with Law Enforcement Coordinator in Geauga County Emergency Operations Center.
Provide instructions to TACP staff on actions to take, including when modifications in protective action strategies necessitate changes in evacuation patterns or in the area(s) where access is controlled.	Gauga County Emergency Operations Center	Exception: By interview with Law Enforcement Coordinator in Geauga County Emergency Operations Center.
Contact the state or Federal agencies that have the authority for the different transportation modes (e.g., rail, water, and air traffic).	Not Applicable	State Function
Identify and take appropriate actions concerning impediments	Gauga County Emergency Operations Center	No Exception

Assessment	Venue	Extent of Play
that affect the evacuation and evacuation routes.		
Make the decision to re-route traffic and coordinate with key decision-makers and the JIC to ensure the alternate route information is appropriately communicated to evacuees.	Geauga County Emergency Operations Center	No Exception
Establish procedures to control access to and monitor people and vehicles from the evacuated and restricted areas.	Not Selected	Restricted area access accomplished during county RRR exercise.
Authorize reentry of individuals into the restricted areas.	Not Selected	Accomplished during County RRR exercise.
Establish exit procedures.	Not Selected	Accomplished during County RRR exercise.

Section 4: Demonstration Locations, Dates, Times, and Contact

MONDAY, SEPT 26, 2022

No scheduled activities

TUESDAY, SEPT 27, 2022

EMERGENCY OPERATIONSS CENTER - Communications		
Address:	Geauga County Emergency Management Agency 12518 Merritt Rd. Chardon, OH 44024	
Contact:	Roger Peterson	
Telephone:		
Action Location:	Same as above Emergency Operations Center is located behind the Geauga County Safety Center	
Date:	Tuesday, Sept 27, 2022	
Time:	7:30 a.m. – 1:00 p.m. EST MARCS radio test at 08:00 a.m.	

INITIAL NOTIFICATION – COUNTY SHERIFF’S DISPATCH CENTER		
Address:	Geauga County Sheriff’s Office Dispatch Center 12450 Merritt Rd Chardon, OH 44024	
Contact:	Dispatcher on duty	
Telephone:		
Action Location:	County Sheriff’s Office Dispatch Center located in the Geauga County Safety Center Same as above	
Date:	Tuesday, Sept 27, 2022	
Time:	7:30 a.m. – 9:00 a.m. EST	

JOINT INFORMATION CENTER – Licensee and Counties		
Address:	Auburn Career Center 8140 Auburn Rd. Concord, OH 44077	
Contact:	Adrian Gorton - PIO	
Telephone:		
Action Location:	Same as above	
Date:	Tuesday, Sept 27, 2022	
Time:	8:00 a.m. – 1:00 p.m. EST	

TRAFFIC & ACCESS CONTROL – Geauga County Sheriff's Office		
Address:	GCSO – Emergency Operations Center Law Enforcement Coordinator 12578 Merritt Rd. Chardon, OH 44024	
Contact:	Emergency Operations Center Law Enforcement Coordinator	
Telephone:		
Action Location:	Same as above	
Date:	Tuesday, Sept 27, 2022	
Time:	8:00a.m. – 1:00 p.m. EST	

WEDNESDAY, SEPT 28, 2022

RECEPTION/CONGREGATE CARE CENTER Operated by Munson and Newbury Fire Depts.		
Address:	Notre Dame Cathedral Latin School 13000 Auburn Road Chardon, Ohio 44024	
Contact:	Reception Center: Mike Vatty Congregate Care Center: Thomas R Revolinsky	
Telephone:		
Action Location:	Same as above	
Date:	Wednesday, Sept 28, 2022	
Time:	6:00 p.m. – 9:00 p.m.	

Section 5: Back-up Documentation

Re-demonstration Criterion

- 1.5/1a1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 1.6/1c1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader OR
may be re-demonstrated as approved on a case-by-case basis by the Chairperson of the Regional Assistance Committee
- 1.7/2b1 – May be re-demonstrated as approved on a case-by-case basis by the Chairperson of the Regional Assistance Committee
- 1.8/2b2 – May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee
- 1.6/2c1 – May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee
- 1.7/3b1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 1.5/3c1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 1.7/3c2 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 1.8/2d1 – May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee
- 1.8/2e1 – May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee
- 1.9/3e1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 1.7/3e2 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 1.7/3f1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 2.3/2a1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 2.4/3a1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 3.3/1d1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 3.4/5a1 – May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee

3.2/5a3 – May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee

3.4/5a4 – May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee

3.5/5b1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader OR may be re-demonstrated as approved on a case-by-case basis by the Chairperson of the Regional Assistance Committee

5.2/6a1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader

5.5/6c1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader

5.6/6b1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader

5.7/6d1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader

5.8/3d1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader

5.4/3d2 – May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee

5.4/(new) Reentry – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader

Section 6: Acronyms

DES	Department of Emergency Services
EOC	Emergency Operations Center
EW Dosimetry Coordinator	Emergency Worker Decontamination Center
FD	Fire Department
GCEMA	Geauga County Emergency Management Agency
GCSO	Geauga County Sheriff's Office
JIC	Joint Information Center
ORO	Offsite Response Organization
RRR	Relocate, Reenter, Return

Nuclear Power Plant Exercise

Perry Nuclear Power Plant

Radiological Emergency Preparedness (REP) Program

Extent-of-Play Agreement for Lake County

September 27, 2022

Extent-of-Play Agreement

Table of Contents

Section 1: Exercise Overview	2
Overarching Purpose.....	2
Scope	2
Table 1 – Schedule of Activities	3
Section 2: Extent-of-Play Agreement	6
Standards & References.....	6
Exercise Participants.....	6
Signatures & Conditions	7
Section 3: Objectives and Exceptions	8
Objective 1: Emergency Operations Management	8
Objective 2: Exposure Control	14
Objective 3: Alert and Notification	17
Objective 4: Detect Measure, Sample, Analyze, and Access	22
Objective 5: Operate	28
Section 4: Demonstration Locations, Dates, Times, and Contacts	35
Section 5: Back-up Documentation	40
Section 6: Acronyms.....	42

Section 1: Exercise Overview

Overarching Purpose

The purpose of this extent of play agreement (EOP) identifies the conditions that will be used to conduct, control and evaluate the 2022 Perry Nuclear Power Plant Evaluated Exercise, as agreed to by the offsite response organizations and Federal Emergency Management Agency (FEMA) Region 5, Radiological Assistance Committee (RAC) Chair.

The extent-of-play agreement is negotiated during the exercise planning process and documents deviations from activities as described in plans and procedures for exercise demonstration purposes. The extent-of-play agreement identifies the Capability Targets that will be evaluated during the exercise, including any exceptions, as well as the entities responsible for demonstrating the Capability Targets.

Scope

The exercise has both In-Sequence and Out-of-Sequence demonstration activities.

In-Sequence activities will occur the morning of September 27, 2022, from approximately 0730-1300 Eastern Standard Time (EST). Lake County will fully participate in this exercise, sufficient to support the demonstrations described in this EOP. The State of Ohio will partially participate sufficient to support Lake County response Operations. (See State of Ohio Extent-of-Play Agreement).

This is a Hostile Action Based (HAB) exercise which will result in the establishment of an Incident Command Post to support law enforcement activities.

In-Sequence activities will be conducted at the following locations:

- County Initial Warning Point (Sheriff's Office Dispatch Center)
- Emergency Operations Center (Emergency Operations Center)
- Incident Command Post (ICP)/Mobile Command Center
- Joint Information Center (JIC)

Out of Sequence activities will be managed by the Lead Controller at each field location and will be run independently. All demonstrations will commence promptly and, barring any complications, not continue past the end time. (See Table – 1)

Demonstration Windows

Demonstration windows are those periods of time designated in the exercise during which specified demonstrations will be accomplished.

The schedule of activities including OROs, locations, dates, and times for In-Sequence, Field and Out-of-Sequence Play activities are summarized in Table 1 below. Additional information is provided in Section 4.

Table 1 – Schedule of Activities

Activity	ORO/Location	Date/Time
Initial Notification (1)	Sheriff's Central Communications Center/Lake County EMA Building	Tuesday, Sept 27, 2022 7:30 AM (estimated)
Lake County Emergency Operations Center Operations	Lake County EMA	Tuesday, Sept 27, 2022 7:30 AM – 01:00 PM
Incident Command/Mobile Command	Lake County Sheriff's Office/Mentor Ice Arena	Tuesday, Sept 27, 2022 7:30 AM – 01:00 PM
Traffic/Access Control (TACP)	Lake County Sheriff's Office/Lake County Emergency Operations Center	Tuesday, Sept 27, 2022. 8:00 AM – 1:00 PM
Joint Information Center (JIC)	Licensee and Counties/Auburn Career Center	Tuesday, Sept 27, 2022. 8:00 AM – 1:00 PM
Public Reception Center	Willoughby FD/Willoughby Middle School	Tuesday, Sept 27, 2022 6:00 PM – 8:00 PM
Congregate Care Center	Red Cross/Willoughby Middle School	Tuesday, Sept 27, 2022 6:00 PM – 8:00 PM
Backup Route Alerting	Mentor FD/Station #2	Wednesday, Sept 28, 2022 6:00 PM – 8:00 PM
School/Transportation Interview	Perry School Dist./Board Office	Wednesday, Sept 28, 2022 9:00 AM – 10 AM

(1) – If the scenario is not initiated at the Initial Notification Point, FEMA will conduct and interview of the Sheriff's Dispatch staff.

Re-demonstration

All activities will be demonstrated fully in accordance with respective plans and procedures as they would be in an actual emergency. This extent-of-play agreement is written by exception. If an exception is not included below then the activity will be demonstrated as described in plans and/or procedures. Any issue or discrepancy arising during the Perry Nuclear Power Plant Exercise may be re-demonstrated during the week of exercise play, Sept 26 through Sept 29, 2022, if allowed by the RAC Chair, or as listed in Section 5. This allowance may be granted if it is not disruptive to exercise play and is mutually agreed to by the lead offsite response organization controller and lead FEMA evaluator. Issues resolved as a result of a re-demonstration will be noted as Findings resolved through re- demonstration.

Demonstration Criteria impacted by No/Minimal Release and/or Limited EAL Escalations:

A no/minimal release scenario would not necessarily require Protective Action Recommendations and Protective Action Decisions (PARs/PADs), including the use of KI, to limit the exposure of the public and/or emergency workers. These Evaluation Criteria will be met if the decision-making process is adequately demonstrated in accordance with plans and procedures and the result is consistent with the exercise scenario. Objectives or points of review not demonstrated will be augmented by evaluator interview.

Activities, Core Capabilities, and Exercise Objectives

Activity	Core Capability	Exercise Objective
Initial Notification Point	Operational Communications	Objective 1: Emergency Operations Management Objective 3: Alert and Notification
County Emergency Operations Center	Operational Coordination Public Information and Warning	Objective 1: Emergency Operations Management Objective 2: Exposure Control Objective 3: Alert and Notification
Incident Command/Mobile Command	Operational Coordination Operational Communications	Objective 1: Emergency Operations Management Objective 2: Exposure Control
Joint Information Center	Operational Communications	Objective 3: Alert and Notification
Lake County Field Monitoring Teams	Environmental Response/Health and Safety	Objective 2: Exposure Control Objective 4: Detect Measure, Sample, Analyze, and Access
Public Reception Center	Operational Coordination Environmental Response/Health and Safety Mass Care	Objective 2: Exposure Control Objective 5: Operate

UNCLASSIFIED

Congregate Care Center	Mass Care	Objective 5: Operate
Traffic and Access Control	Access Control Operational Coordination Critical Transportation	Objective 2: Exposure Control Objective 5: Operate
School/Transportation Interview	Operational Communications Operational Coordination Critical Transportation	Objective 1: Emergency Operations Management Objective 2: Exposure Control Objective 5: Operate

Section 2: Extent-of-Play Agreement

Standards & References

Lake County OROs will use the following references, plans, and procedures during exercise play:

- Lake County Radiological Emergency Response Plan, Revision 28, January 2022.
- Department of Homeland Security/Federal Emergency Management Agency REP Program Manual December 2019
- NUREG 0654/FEMA REP 1 Rev. 2
- Lake County Suggested Operational Guidance, latest revisions.

Exercise Participants

County and local Offsite Response Organizations (ORO) that will participate in this exercise may include but are not limited to the following:

- Lake County Emergency Management Agency
- Lake County Sheriff's Office
- Lake County Health Department
- Willoughby Fire Department
- American Red Cross
- Mentor Fire Department
- Perry School District
- Ohio State Highway Patrol
- U.S. Coast Guard
- Federal Bureau of Investigation

Signatures & Conditions

The following agree to support this exercise as described herein:

Exercise Director	Representative of Participating Organization
Jeff Archer Exercise Director Energy Harbor , Perry Nuclear Power Plant	Joseph Busher Director Lake County EMA
	Todd Ungar Chief Willoughby Fire Department
	Robert Searles Chief Mentor Fire Department, Station 2
	Thomas Revolinsky Disaster Program Manager American Red Cross
	Frank Leonbruno Lake County Sheriff Lake County Sheriff's Office
	Jack Thompson Superintendent Perry School District
	Corey Taylor Lieutenant U.S. Coast Guard
	Charlie Sullivan Special Agent FBI

Section 3: Objectives and Exceptions

Objective 1: Emergency Operations Management

Capability Target 1.1: Mobilization - Individuals with roles in support of emergency Operations are identified, alerted, and mobilized in a timely manner.

Intent: The capability to alert, notify, and mobilize OROs to staff facilities in support of emergency Operations.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (A.1, A.1.a, A.1.b, A.3, A.4, A.5, C.1, C.2, C.2.a, C.2.b, C.3, E.1, E.1.a, E.3, F.1.c, H.6, and O.1)

Core Capabilities: Operational Coordination, Planning

Exercise Parameters: Lake County intends to fully activate the County Emergency Operations Center (Emergency Operations Center) in Kirtland, Ohio. The County will implement notification procedures as defined in Plans and SOGs.

Assessment	Venue	Extent of Play
Alert, notify, and mobilize key personnel, to include a 24-hour staffing roster, and activate facilities in a timely manner.	All Venues	Exception: Some participants, players, etc. will be prepositioned in local area. Players will not begin their assigned exercise roles until notification is received.
Receive and verify notifications.	Lake County Emergency Operations Center	No Exceptions
Identify and request additional resources, as needed.	All Venues	Exception: Agencies outside this EOP may be requested, but response will be simulated.
Determine a facility is Operational.	All Venues	No Exceptions

Capability Target 1.2: Direction and Control - Individuals in leadership roles provide direction and control to the portion of the overall response effort for which they are responsible.

Intent: The capability to provide overall direction and control of response efforts, commensurate with the responsibilities of leadership, as detailed in plans/procedures.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (A.1, A.1.a, A.1.b, A.1.c, A.2, A.3, A.5, C.2, C.2.a, C.2.b, C.3, D.4, E.1, H.6, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Public Information and Warning; Mass Care Services; Public Health, Healthcare, and Emergency Medical Services; Situational Assessment; Critical Transportation; Planning

Exercise Parameters: Decision Making will be demonstrated at the Lake County Emergency Operations Center and Incident Command. Coordination of decisions and emergency activities will be demonstrated between the State of Ohio, Ashtabula County, Geauga County, and Incident Command.

Assessment	Venue	Extent of Play
Support protective action decision-making.	Lake County Emergency Operations Center/Incident Command	No Exceptions
Conduct briefings in a timely manner.	Lake County Emergency Operations Center/Incident Command	No Exceptions
Maintain Situational Awareness	All Venues	No Exceptions
Coordinate response activities with other organizations.	Lake County Emergency Operations Center/Incident Command	No Exceptions
Obtain resources to support emergency Operations	All Venues	Exceptions: by discussion if not already available at venue.
Provide and maintain adequate facilities and equipment to support the emergency response.	All Venues	No Exceptions

Capability Target 1.3: Protective Action Recommendations – Appropriate PARs are selected based on available information and other factors.

Intent: The capability to use dose assessment and field data, compare this data to the PAGs, and choose among a range of protective actions those most appropriate in a given emergency.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (D.4, J.7, J.8, J.8.b, J.9, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Planning

Exercise Parameters: Not Selected, this is a Licensee and State Function.

Capability Target 1.4: Protective Action Decisions for the Plume Phase – Appropriate PADs are based on available information for the plume phase.

Intent: The capability to utilize appropriate factors and necessary coordination in the decision-making process used to make PADs for the public.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (D.1.b, D.4, J.6, J.7, J.8, J.8.b, J.10, J.10.a, J.10.b, J.11.c-g, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Critical Transportation; Planning.

Exercise Parameters: Energy Harbor and the State of Ohio will make Protective Action Recommendations (PAR) to Lake County officials in the county Emergency Operations Center. The Lake County officials, in coordination with Incident Command, will make the final Protective Action Decisions (PAD) regarding what protective actions will be recommended to the public of Lake County.

Assessment	Venue	Extent of Play
Coordinate and make PADs for members of the general public.	Lake County Emergency Operations Center	No Exceptions
Coordinate and make PADs for those with access and functional needs.	Lake County Emergency Operations Center	No Exceptions
Coordinate and make PADs for students at schools.	Lake County Emergency Operations Center	No Exceptions
Coordinate and make subsequent or alternate PADs.	Lake County Emergency Operations Center	Exception: By discussion if not driven by scenario.
Coordinate and make decisions on the administration of KI (where applicable) for the public and institutionalized members of the population.	Lake County Emergency Operations Center	No Exceptions

Capability Target 1.5: Protective Action Decision Implementation for the Plume Phase – Implement decisions for those populations and areas subject to plume phase protective actions.

Intent: The capability to implement precautionary protective action and/or PADs, including evacuation and/or sheltering, for all populations within the plume and ingestion exposure pathway EPZs. The populations include those with access and functional needs, students, and institutionalized individuals.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (A.4, C.2.a, G.1, J.11, J.11.a, J.11.b, J.11.c, J.11.e, J.11.g, and O.1)

Core Capabilities: Operational Coordination; Public Information and Warning; Environmental Response/Health and Safety; Critical Transportation; Health and Social Services; Housing; Natural and Cultural Resources; Planning

Exercise Parameters: No actual evacuations or demonstrations of shelter-in-place will occur. Phone calls and public notifications will be simulated. All transportation points of review will be demonstrated by interview/discussion. No actual transportation will occur.

Assessment	Venue	Extent of Play
Implement PADs, ensuring communication and coordination with all appropriate jurisdictions.	Lake County Emergency Operations Center	See Exercise Parameters
Assist those with access and functional needs during the implementation of PADs.	Lake County Emergency Operations Center	See Exercise Parameters
Communicate, coordinate, and implement protective actions for schools.	Lake County Emergency Operations Center School Transportation Interview	See Exercise Parameters
Communicate with transportation officials.	Lake County Emergency Operations Center	See Exercise Parameters
Identify evacuation routes for the general public.	Lake County Emergency Operations Center	See Exercise Parameters

Capability Target 1.6: Protective Action Decisions for the Post-Plume – Appropriate PADs are based on available information for the post-plume phase.

Intent: The capability to assess the radiological consequences for the ingestion exposure pathway and post-plume phase, relate them to the appropriate PAGs, and make and coordinate timely, appropriate PADs to mitigate exposure.

Planning references: NUREG-0654/FEMA-REP-1, Rev. 2 (J.12, J.14, J.14.a-f, M.1, M.1.b, M.4, M.5, M.6, M.7, M.8, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Critical Transportation; Housing; Planning

Exercise Parameters: Not Selected for this exercise.

Capability Target 1.7: Protective Action Decision Implementation for the Post-Plume Phase - (3.e.1, 3.e.2, 3.f.1)
Implement decisions for those populations and areas subject to post-plume phase protective actions.

Intent: The capability to implement and coordinate PADs to mitigate exposure and address long-term radiological consequences.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (C.2, J.12, J.14, J.14.a-f, M.1, M.1.b, M.4, M.5, M.6, M.7, M.8, and O.1)

Core Capabilities: Operational Coordination; Public Information and Warning; Environmental Response/Health and Safety; Critical Transportation; Health and Social Services; Housing; Natural and Cultural Resources; Planning

Exercise Parameters: Not Selected for this exercise.

Objective 2: Exposure Control

Capability Target 2.1: Emergency Worker Exposure Control Decision-Making Process - A decision-making process involving consideration of appropriate factors and necessary coordination is used to ensure that an exposure control system is in place for emergency workers and includes the use of radioprotective drugs and procedures to authorize emergency exposures in excess of the PAGs.

Intent: The capability to assess and control the radiation exposure and dose received by emergency workers and utilize a decision-making chain to authorize emergency worker exposure limits to be exceeded for specific missions.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (C.2.c, H.11, K.2, K.2.b, K.3, K.3.a, M.1.b, M.8, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Situational Assessment; Planning

Exercise Parameters: Exposure control will be demonstrated at the out-of-sequence venues where applicable and may be demonstrated by interview/discussion with the Emergency Operations Center Radiological Officer, Law Enforcement Coordinator and Ohio State Highway Patrol Liaison.

Assessment	Venue	Extent of Play
Control emergency workers' exposure and dose, including offsite workers performing duties onsite.	Lake County Emergency Operations Center	No Exception

Maintain record of dose as a result of exposure.	Reception Center	No Exception
Authorize exposures and dose in excess of identified limits.	Lake County Emergency Operations Center	By interview if not driven by the exercise.
Process for considering occupational exposures and to authorize individuals to receive doses in excess of occupational dose limits.	Not Applicable	State Function
Determine a correction factor for DRD-based isotopic release mixture	Not Applicable	State Function

Assessment	Venue	Extent of Play
Control exposure and dose for temporary reentry of emergency workers, or members of the public, to restricted areas.	Not Selected	Performed during county RRR exercise.
Determine the need to authorize radioprotective drugs using projected thyroid doses and field measurements. Projections are compared to previously established PAGs.	Not Applicable	State Function
Adequately protect members of the public from radiological exposure and control dose for those who are authorized to temporarily reenter a restricted area.	Not Selected	Performed during county RRR exercise.

Capability Target 2.2: Emergency Worker Exposure Control Management - Emergency workers manage radiological exposure and dose in accordance with the plans/procedures.

Intent: The capability of emergency workers to manage dose and exposure, use equipment (e.g., dosimetry, radio protective drugs), and identify procedures to monitor their exposure and dose, including following procedures to obtain authorization to receive emergency exposures in excess of the PAGs.

UNCLASSIFIED

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (C.2.c, H.11, H.11.b, K.2.b, K.3, K.3.a, M.1.b, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

Exercise Parameters: DRDs, PRDs and KI for emergency workers and institutionalized individuals are pre-distributed and described in the Lake County Radiological Emergency Response Plan (RERP) and SOGs. In the event that the use of KI is recommended, players will simulate taking KI.

Assessment	Venue	Extent of Play
Maintain an appropriate inventory of DRDs that are leak-tested or current in calibration.	All Venues	No Exceptions
Maintain an appropriate inventory of PRDs.	All Venues	No Exceptions
Retain an adequate supply of radioprotective drugs.	All Venues	No Exception
Adequately distribute appropriate DRDs and PRDs.	All Venues	No Exception
Adequately distribute radioprotective drugs to emergency workers.	All Venues	No Exception
Record and report exposures in the field.	Reception Center Backup Route Alerting	No Exception
Implement decisions to administer radioprotective drugs.	Reception Center/ Congregate Care Center	Exception: Ingestion of KI will be simulated.
Report to individual responsible for managing exposure and dose when limits are reached.	All Venues	No Exception

Implement exposure control decisions to members of the public from radiological exposure and control dose for those who are authorized to temporarily reenter a restricted area.	Not Selected	Performed during county RRR exercise.
--	--------------	---------------------------------------

Objective 3: Alert and Notification

Capability Target 3.1: Communications - Communication processes, systems, and equipment are sufficient to support emergency Operations.

Intent: The capability to provide and maintain reliable communications with emergency personnel.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (E.1.a, E.3, F.1, F.1.a, F.1.b, F.1.c, F.3, and O.1)

Core Capabilities: Operational Communications; Operational Coordination; Situational Awareness; Planning

Exercise Parameters: Lake County will demonstrate multiple communications systems during an interview at Lake County EMA and during the Emergency Operations Center portion of the exercise. Communications to the out-of-sequence venues will be simulated. No actual notifications to the public will be performed (sirens, EAS, ENS, press releases, etc.).

Assessment	Venue	Extent of Play
Utilize communication systems that are fully functional, continuously available, and redundant.	All Venues	No Exceptions A communication test will be performed with the State on the MARCS radio system
Maintain periodic test results and corrective actions on a real time basis.	Lake County Emergency Operations Center	During interview with Emergency Operations Center Central Communications Administrator.
Access at least one communication system that is independent of the commercial telephone system.	Lake County Emergency Operations Center	During interview with Emergency Operations Center Central Communications Administrator.
Manage the communication systems and ensure that all message traffic is handled without delays that might disrupt emergency Operations.	Lake County Emergency Operations Center	No Exceptions

Identify and address any failures of the systems.	Lake County Emergency Operations Center	No Exceptions
Transmit, receive, and understand messages (i.e., “content check”).	Lake County Emergency Operations Center	During Initial Notification process

Capability Target 3.2: Alert and Notification of the Public - Alert and notification of the public is completed in a timely manner.

Intent: The capability to provide instructions to the public.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (E.2, E.4, E.5, F.3, and O.1)

Core Capabilities: Public Information and Warning; Planning

Exercise Parameters: Alert and Notification of the public in Lake County is a coordinated function with the Counties of Geauga and Ashtabula. All EPZ counties have the ability to sound sirens, but Lake County sounds the entire EPZ by procedure. No actual notifications to the public will be performed (sirens, EAS, ENS, press releases, etc.).

Assessment	Venue	Extent of Play
ALERT AND NOTIFICATION SYSTEM: Sequentially provide an alert signal followed by an initial instructional message to populated areas.	Lake County Emergency Operations Center/Central Communications Center	Exception: An Emergency Alert System message will be developed but will not be transmitted or broadcast. Communications demonstration will be used to discuss associated points of review. Exception: Siren Activation – Evaluators may interview Sheriff Dispatch Staff regarding the steps they would take to activate sirens. Siren activation will be simulated.
ALERT AND NOTIFICATION SYSTEM: Alert and notify the general public. – (Subsequent Alerts)	Lake County Emergency Operations Center/Central Communications Center	Same as above.

UNCLASSIFIED

ALERT AND NOTIFICATION SYSTEM: Identify and address any failures of the system(s) or portion of a system(s).	Lake County Emergency Operations Center	No Exception – See Electronic Notification System (ENS) for back-up methodology.
ALERT AND NOTIFICATION SYSTEM: Actual testing of the mobile public address system will be conducted at an agreed-upon location.	Mentor Fire Department	Exception – The mobile PA will be tested at the Fire Department. Use of the PA during the backup route alerting will be simulated.

Assessment	Venue	Extent of Play
ALERT AND NOTIFICATION SYSTEM: Secondary method: Electronic Notification System (ENS)	Lake County Emergency Operations Center	Exception: The process may be discussed during interview with Emergency Operations Center Central Communications Administrator or LCEMA Director.
EMERGENCY ALERT SYSTEM: Identify the process to activate the EAS. -	Lake County Emergency Operations Center	No Exception
EMERGENCY ALERT SYSTEM: Ensure that updated emergency information is disseminated in a timely manner.	Lake County Emergency Operations Center	No Exception
EMERGENCY ALERT SYSTEM: Ensure that current emergency information is repeated at pre-established intervals.	Lake County Emergency Operations Center	No Exception
EAS/NWS STATION: Identify the process to activate the EAS, to include the process to receive and then broadcast updated information/messages and verification of the message, if applicable.	Lake County Emergency Operations Center	No Exception
EAS/NWS STATION: Broadcast the message on a 24-hour basis.	Lake County Emergency Operations Center	Exception – By interview with LCEMA Director or designee.

ROUTE/ALTERNATE ALERTING	Not selected	<p>Exception – No lights/sirens will be used during the run.</p> <p>Exception – The vehicle will not impede or create a hazard for traffic. Vehicle speed may be adjusted so as not to impede traffic.</p>
--------------------------	--------------	--

Capability Target 3.3: Emergency Information and Instructions for the Public and News Media - Accurate emergency information and instructions are provided to the public and the news media in a timely manner.

Intent: The capability to disseminate emergency information and instructions to the public during all phases of an incident.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (E.2, E.4, E.5, G.1, G.2, G.3, G.3.a, G.4, G.5, and O.1)

Core Capabilities: Public Information and Warning; Planning

Exercise Parameters: Lake County will demonstrate this Capability Target by using pre-scripted messages as prescribed in plans and SOGs. Message content and delivery will be coordinated with Incident Command. Contact with media outlets will be simulated and no actual messages will be broadcast. No actual notifications to the public will be performed (sirens, EAS, ENS, press releases, etc.).

Assessment	Venue	Extent of Play
PLUME PHASE: Deliver coordinated, prompt, reliable, and actionable information in a timely manner.	Lake County Emergency Operations Center and JIC	No Exception
PLUME PHASE: Provide clear, concise, accessible messaging using plain language.	Lake County Emergency Operations Center and JIC	No Exception
PLUME PHASE: Messaging addresses appropriate cultural and linguistic considerations.	Lake County Emergency Operations Center and JIC	<p>Exception:</p> <p>Lake County has less than 5% non-English speaking population.</p>
PLUME PHASE: Ensure subsequent messaging is consistent with protective actions.	Lake County Emergency Operations Center	No Exception

UNCLASSIFIED

Assessment	Venue	Extent of Play
PLUME PHASE: Update information as the incident progresses, to include validating previously identified protective areas and clearly identifying any new protective action areas, any information that is no longer valid, and any changes to previously provided information (e.g., rerouting of evacuation routes due to impediments, etc.).	Lake County Emergency Operations Center and JIC	No Exception
PLUME PHASE: Respond to media and public inquiries.	Lake County Emergency Operations Center and JIC	No Exception
POST-PLUME PHASE: Rapidly disseminate of ingestion exposure pathway information to predetermined individuals and businesses.	Lake County Emergency Operations Center and JIC	Not Selected – this is demonstrated during county RRR exercise.
POST-PLUME PHASE: Provide information to the public that addresses temporary reentry to a restricted area, permanent relocation from areas not evacuated, and return to formerly restricted areas will be communicated.	Lake County Emergency Operations Center and JIC	Not Selected – this is demonstrated during county RRR exercise.

Objective 4: Detect Measure, Sample, Analyze, and Access

Note: Objective 4 is a State of Ohio function with the assistance of the Lake County Field Monitoring Teams (LCFMTs). The State of Ohio trains the LCFMTs and helps maintain their FMT program. All comment resolutions, exercise issues, good practices will be assigned to the State.

Capability Target 4.1: Field Monitoring Teams Management - FMTs are managed to obtain information to help characterize the release, locate, and track the airborne radiological plume, and control contamination.

Intent: The capability to provide overall management of FMTs to direct movements and measurements to characterize the plume and its impacts.

Planning Reference: NUREG-0654/FEMA-REP-1, Rev. 2, (H.11, H.13, I.5, I.6, I.9, I.10, M.7, M.8, O.1)

Core Capabilities: Operational Coordination; Environmental Response /Health and Safety; Planning

Exercise Parameters: The Lake County FMTs will work with the State to demonstrate field monitoring capability.

Assessment	Venue	Extent of Play
Brief FMTs on predicted plume location and direction, plume travel speed, equipment Operational checks, background measurement, and exposure control procedures before deployment.	Lake County Emergency Operations Center with State of Ohio	No Exception
Direct the FMTs to monitoring locations, predesignated points or otherwise, at times and locations sufficient to characterize the plume.	Lake County Emergency Operations Center with State of Ohio	No Exception
Obtain peak plume measurements from FMTs.	Lake County Emergency Operations Center with State of Ohio	No Exception
Direct FMTs to collect air samples at locations and times sufficient to characterize the plume.	Lake County Emergency Operations Center with State of Ohio	No Exception

Assessment	Venue	Extent of Play
Keep Incident Command informed of FMTs activities and location(s) during a HAB incident or other instances when an ICP or other may be in use.	Lake County Emergency Operations Center with State of Ohio	No Exception
Coordinate and share information amongst all FMTs (licensee, Federal, state and local).	Lake County FMTs with State of Ohio	No Exception
Coordinate sample analysis from field to those responsible for assessing radiological data.	Lake County FMTs with State of Ohio	No Exception
Coordinate transfer of sample media to locations and organizations responsible for assessing radiological data.	Lake County FMTs	Exception: the transfer of sample media will be by interview. No actual transfer will occur.
Assist with development and modification of sampling plans, as appropriate.	Lake County FMTs with State of Ohio	Exception: development and modification of sample plans will be by interview.

Capability Target 4.2: Plume Phase Measurements and Sampling - FMTs make, record, and report measurements of ambient radiation to appropriate authorities; radioiodine and particulate samples are collected.

Intent: The capability to make and report measurements of ambient radiation.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (H.9, H.11, H.11.a, H.11.b, H.12, H.13, I.2, I.5, I.6, I.7, I.8, I.9, I.10, and O.1)

Core Capabilities: Environmental Response/Health and Safety; Planning

Exercise Parameters: The Lake County FMTs will work with the State to demonstrate field monitoring capability.

UNCLASSIFIED

Assessment	Venue	Extent of Play
Maintain emergency equipment including calibration and Operational checks according to manufacturer's specifications or per national standards.	Lake County FMTs	No Exception
Direct the FMTs to monitoring locations, predesignated points or otherwise, at times and locations sufficient to characterize the plume.	Lake County Emergency Operations Center with State of Ohio	No Exception
Maintain inventory for emergency kits.	Lake County FMTs	No Exception
Operate and monitor radiation survey instruments to detect changes in radiation exposure rate while moving and in stationary positions.	Lake County FMTs	No Exception
Use appropriate contamination control and PPE.	Lake County FMTs	No Exception
Be in location(s) at the appropriate time(s) to detect and characterize the active release (plume).	Lake County FMTs	No Exception
Obtain peak plume measurements either directly or from licensee field teams.	Lake County FMTs	No Exception
Correctly interpret survey instrument readings to determine submersion in the active plume.	Lake County FMTs	No Exception
Collect representative air samples in the active plume on particulate media (e.g., glass or paper filter)	Lake County FMTs	No Exception

UNCLASSIFIED

Assessment	Venue	Extent of Play
and iodine selective media (e.g., silver zeolite cartridge).		
Handle sample media and equipment to avoid sample cross-contamination, contamination of equipment and personnel contamination.	Lake County FMTs	No Exception
Determine an appropriate low background location to count sample media.	Lake County FMTs	No Exception
Count iodine and particulate media using appropriate and effective instrumentation and counting geometries or have samples analyzed by a supporting laboratory within four hours.	Lake County FMTs	No Exception – Samples counted in the field.
Report to field monitoring team manager all survey and counting results in format and units suitable for use by the organization's dose assessor.	Lake County FMTs	No Exception
Procedures, qualified collection and counting efficiencies, and calculations are capable of detecting airborne radioactive iodine concentrations as low as 10 - 7 µCi/cc.	Lake County FMTs with State of Ohio	No Exception
Preparation of packaging, sample identification, and chain-of-custody forms ensures integrity of samples throughout transportation and transfer.	Lake County FMTs	Exception: Demonstrate by interview. No samples will be sent to a laboratory.

Capability Target 4.3: Post-Plume Phase Measurements and Sampling - FMTs take measurements and samples to support assessment of the ingestion exposure pathway and to support reentry, relocation, and return decisions.

Intent: The capability to report measurements of ambient radiation and collect environmental, food, and drinking water samples for laboratory analyses that support decision-making.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (H.11, H.11.a, H.11.b, H.12, H.13, I.2, I.5, I.6, I.8, M.7, and O.1)

Core Capabilities: Environmental Response/Health and Safety; Planning

Exercise Parameters: Not Selected. Demonstrated during RRR exercise.

Capability Target 4.4: Laboratory Operations - The laboratory performs radiological analyses to support protective action decision-making.

Intent: The capability to perform laboratory analyses of radioactivity in environmental, food, and drinking water samples to support decision-making.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (C.4, H.11, H.11.b, H.13, I.2, I.6, M.7, and O.1)

Core Capabilities: Environmental Response/Health and Safety; Planning

Exercise Parameters: Not Selected. Performed during State laboratory exercise.

Capability Target 4.5: Plume Phase Analysis and Dose Assessment - Dose assessment considers all available information including plant conditions, environmental conditions, field monitoring data, sample analysis results, and dose projection calculations.

Intent: The capability to collect data, project doses to members of the public and emergency workers, and analyze and communicate the results.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (A.3, H.13, I.6, I.8, I.10, K.3, and O.1)

Core Capabilities: Environmental Response/Health and Safety; Planning

Exercise Parameters: This is a State function and identified in the State Extent of Play.

Capability Target 4.6: Post-Plume Phase Sampling Plan Development and Analysis - Post-plume phase assessment considers all available information, including environmental conditions, field monitoring data, sample analysis results, and dose projection calculations.

Intent: The capability to identify and prioritize sampling, collect data, determine areas where relocation is recommended, identify food that is contaminated above federally approved limits, and analyze and communicate the results.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (A.3, H.13, I.2, I.6, I.8, I.10, J.12, J.14.b, J.14.c, K.3, M.7, M.8, and O.1)

Core Capabilities: Environmental Response/Health and Safety; Planning

Exercise Parameters: Not selected. Demonstrated during RRR exercise.

Objective 5: Operate

Capability Target 5.1: Monitoring, Decontamination, Sheltering, and Registration of Evacuees - Facilities, equipment, and procedures are in place and utilized to provide monitoring, decontamination, identification, temporary shelter, congregate care, and registration of evacuees.

Intent: The capability to implement radiological monitoring and decontamination of evacuees, and to identify, register, temporarily shelter, and provide congregate care for evacuees at reception centers.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (J.11.d, J.13, K.4, and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Mass Care; Planning

Exercise Parameters: Lake County will demonstrate a reception center where monitoring, decontamination and registration of evacuees takes place, and a separate congregate care center for temporary shelter. No live sources will be used, all contamination levels will be by controller inject. All decontamination will be demonstrated by discussion, no actual decontamination methods will be demonstrated. Equipment and supplies will be available for inspection.

Assessment	Venue	Extent of Play
Set up Operations:	Reception Center, Congregate Care Center	<p>Exception – Centers will be set-up in advance of demonstration.</p> <p>Exception: Where applicable, only one locker room will be set up. A floor plan of showering facilities for both males and females will be available for inspection.</p> <p>Exception: Disposable paper walkways will not be used. Walkways will be clearly outlined using cones and/or stanchions in order to minimize waste.</p>
Operationally check instruments and equipment.	Reception Center	Exception: A minimum of one of each type of radiological monitoring instrument will be demonstrated.

Assessment	Venue	Extent of Play
MONITORING: Attain and sustain the overall monitoring productivity rate per hour needed to monitor 20 percent of the plume exposure pathway EPZ population, including transients, within a 12-hour period at each facility. The monitoring productivity rate per hour is the number of evacuees that can be monitored, per hour, per location, by the total complement of monitors using an appropriate procedure.	Reception Center	<p>Demonstrated through plan review which shows calculations.</p> <p>A total of six potentially contaminated individuals will pass through a portal monitor. In consultation with the evaluator, controller will select one evacuee at random to be designated as contaminated.</p>
MONITORING: Monitor evacuees, service animals, pets, vehicles, and possessions.	Reception Center	Exception: No pets or service animals will be monitored
Utilize trigger/action levels for determining the need for decontamination.	Reception Center	See Exercise Parameters.
DECONTAMINATION: Decontaminate evacuees, and personal belongings, while limiting the spread of contamination.	Reception Center	Exception: Evacuee decontamination will be walked through and explained procedurally by workers. Evacuee will not undergo actual decontamination.
DECONTAMINATION: Follow-up with any evacuee(s) who cannot be appropriately decontaminated for assessment; ensure the capability to provide evacuee-referrals.	Reception Center	Exception: The decision to refer individuals who cannot be decontaminated to medical facilities will be procedurally explained via evaluator interview.
VEHICLES: Monitor and decontaminate vehicles.	Reception Center	<p>Exception: Monitoring of one vehicle will be demonstrated.</p> <p>Exception: Decontamination of vehicles will be by interview only.</p>

UNCLASSIFIED

Assessment	Venue	Extent of Play
VEHICLES: Provide adequate, separate space for both contaminated and non-contaminated vehicles.	Reception Center	No Exception
VEHICLES: Monitor emergency worker personnel and their equipment and vehicles for contamination.	EW Dosimetry Coordinator	See Capability Target 5.2 for Exceptions
VEHICLES: Decontaminate evacuee vehicles based on trigger/action levels.	Reception Center	Exception: Decontamination of vehicles will be by interview only.
SHELTERING AND CONGREGATE CARE: Coordinate for incoming evacuees who have been monitored and, if necessary, decontaminated.	Congregate Care Center	No Exception
SHELTERING AND CONGREGATE CARE: Establish shelter Operations.	Congregate Care Center	Exception: A sample of evacuee bedding and provisions will be shown.
SHELTERING AND CONGREGATE CARE: Congregate care centers and Operations in host/support jurisdictions are sufficient to support the expected number of evacuees.	Congregate Care Center	No Exception
REGISTRATION: Register evacuees.	Reception Center Congregate Care Center	Exception: Initial registration of evacuees who are found not to be contaminated will be demonstrated concurrently with evacuee decontamination.
REGISTRATION: Ensure the registration area is clean and controlled.	Reception Center Congregate Care Center	No Exception

Capability Target 5.2: Monitoring and Decontamination of Emergency Workers, Equipment, and Vehicles - Facilities, equipment, and procedures are in place and utilized to provide monitoring and decontamination of emergency workers and their equipment and vehicles.

Intent: The capability to implement radiological monitoring and decontamination of emergency workers, equipment, and vehicles.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (K.4 and O.1)

Core Capabilities: Operational Coordination; Environmental Response/Health and Safety; Planning

Exercise Parameters: Not selected.

Assessment	Venue	Extent of Play
Set up Operations:	EW Dosimetry Coordinator	Exception – Not Selected
Operationally check instruments and equipment.	EW Dosimetry Coordinator	Exception – Not Selected
Monitor emergency worker personnel and their equipment and vehicles for contamination.	EW Dosimetry Coordinator	Exception – Not Selected
Decontaminate emergency worker personnel and their equipment and vehicles based on trigger/action levels.	EW Dosimetry Coordinator	Exception – Not Selected
Control the spread of contamination.	EW Dosimetry Coordinator	Exception – Not Selected
Create and maintain a record of monitoring and decontaminating workers upon completion of monitoring and decontamination activities.	EW Dosimetry Coordinator	Exception – Not Selected

Assessment	Venue	Extent of Play
Process for prioritizing emergency workers and equipment before the public in facilities where the public and emergency workers are both processed for contamination.	EW Dosimetry Coordinator	Exception – Not Selected

Capability Target 5.3: Transportation and Treatment of Contaminated Individuals - Transport contaminated, injured individuals to medical facilities with the capability to monitor and decontaminate.

Intent: The capability to provide medical transport and treatment services to contaminated, injured individuals.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (C.2.d, F.2, H.11, H.12, J.2, K.3, K.4, L.1, L.3, L.4, and O.1)

Core Capabilities: Environmental Response/Health and Safety; Public Health, Healthcare, Emergency Medical Services; Planning

Exercise Parameters: Not Selected for this exercise.

Capability Target 5.4: Traffic and Access Control - Appropriate traffic and access control is established; accurate instructions are provided to traffic and access control staff.

Intent: The capability to select, establish, and staff traffic and access control points and removing impediments to the flow of evacuation traffic.

Planning reference: NUREG-0654/FEMA-REP-1, Rev. 2 (H.12, J.8, J.8.b, J.10, J.10.a, J.11.c, J.11.e, J.11.f, J.14.d, J.14.e, M.1.b, and O.1)

Core Capabilities: Critical Transportation; Access Control/Identity Verification; Environmental Response/Health and Safety; On-Scene Security, Protection, and Law Enforcement; Operational Coordination; Planning; Situational Assessment.

Exercise Parameters: The Traffic Access and Control Point (TACP) ability to provide instructions to TACP providers will be demonstrated through an interview with the Law Enforcement Coordinator in the Lake County Emergency Operations Center. The TACP function will be demonstrated by an interview at TACP venue. No actual control point will be set up. Equipment will be available for inspection.

Assessment	Venue	Extent of Play
Select, establish, and staff appropriate Traffic and Access Control Points, consistent with current conditions and PADs (e.g., evacuating, sheltering, and relocation), in a timely manner.	Lake County Emergency Operations Center	Exception: By interview with Law Enforcement Coordinator in Lake County Emergency Operations Center.

UNCLASSIFIED

Provide instructions to TACP staff on actions to take, including when modifications in protective action strategies necessitate changes in evacuation patterns or in the area(s) where access is controlled.	Lake County Emergency Operations Center	Exception: By interview with Law Enforcement Coordinator in Lake County Emergency Operations Center.
Contact the state or Federal agencies that have the authority for the different transportation modes (e.g., rail, water, and air traffic).	Not Applicable	State Function
Identify and take appropriate actions concerning impediments	Lake County Emergency Operations Center	No Exception

Assessment	Venue	Extent of Play
that affect the evacuation and evacuation routes.		
Make the decision to re-route traffic and coordinate with key decision-makers and the JIC to ensure the alternate route information is appropriately communicated to evacuees.	Lake County Emergency Operations Center	No Exception
Establish procedures to control access to and monitor people and vehicles from the evacuated and restricted areas.	Not Selected	Restricted area access accomplished during county RRR exercise.
Authorize reentry of individuals into the restricted areas.	Not Selected	Accomplished during County RRR exercise.
Establish exit procedures.	Not Selected	Accomplished during County RRR exercise.

Section 4: Demonstration Locations, Dates, Times, and Contacts

MONDAY, SEPT 26, 2022

No scheduled activities.

TUESDAY, SEPT 27, 2022

INITIAL NOTIFICATION – COUNTY SHERIFF’S DISPATCH CENTER		
Address:	Lake County Sheriff’s Central Communications Center 8505 Garfield Rd. Kirtland, OH 44094	
Contact:	Capt. Daniel Bachnicki	
Action Location:	County Sheriff’s Office Dispatch Center located in the EMA Same as above	
Date:	Tuesday, Sept 27, 2022	
Time:	7:30 a.m. – 9:00 a.m. EST	

EMERGENCY OPERATIONSS CENTER - Communications		
Address:	Lake County Emergency Management Agency 8505 Garfield Rd. Kirtland, OH 44094	
Contact:	Joseph Busher	
Action Location:	Same as above	
Date:	Tuesday, Sept 27, 2022	
Time:	7:30 a.m. – 1:00 p.m. EST MARCs radio test at 08:00 a.m.	

INCIDENT COMMAND POST/MOBILE COMMAND – Lake County Sheriff’s Office		
Address:	Mentor Ice Arena – Community Room 8600 Munson Rd. Mentor, OH 44060	
Contact:	Jeff Sherwood – Chief Deputy Lake Co. Sheriff Office	
Action Location:	Same as above	
Date:	Tuesday, Sept 27, 2022	
Time:	7:30 a.m. – 1:00 p.m. EST	

TRAFFIC & ACCESS CONTROL – Lake County Sheriff's Office		
Address:	LCSO – Emergency Operations Center Law Enforcement Coordinator	
	8505 Garfield Rd.	
	Kirtland, OH 44094	
Contact:	Capt. Daniel Bachnicki	
Action Location:	Same as above	
Date:	Tuesday, Sept 27, 2022	
Time:	9:00 a.m. – 11:00 a.m. EST	

LAKE COUNTY FIELD MONITORING TEAM State of Ohio EMA and Lake County Health Dept.		
Address:	8505 Garfield Rd.	
	Kirtland, OH 44094	
Contact:	Ed Filppi – State Radiological Analyst	
Action Location:	Same as above.	
Date:	Tuesday, Sept 27, 2022	
Time:	7:30 a.m. – 1:00 p.m. EST	

RECEPTION/CONGREGATE CARE CENTER Operated by Willoughby Fire Department		
Address:	Willoughby Middle School	
	5000 Shankland Road Willoughby, Oh 44094	
Contact:	Christopher Plush, Principal	
Action Location:	Same as above	
Date:	Tuesday, Sept 27, 2022	
Time:	6:00 p.m. – 8:00 p.m.	

JOINT INFORMATION CENTER – Licensee and Counties		
Address:	Auburn Career Center 8140 Auburn Rd. Concord, OH 44077	
Contact:	Hali Jenkins - PIO	
Action Location:	Same as above	
Date:	Tuesday, Sept 27, 2022	
Time:	8:00 a.m. – 1:00 p.m. EST	

WEDNESDAY, September 28, 2022

SCHOOL/TRANSPORTATION INTERVIEW Perry School District		
Address:	4325 Manchester Rd. Perry, OH 44081	
Contact:	Jack Thompson, Superintendent	
Action Location:	Board Office at above address	
Date:	Wednesday, Sept 28, 2022	
Time:	9:00 a.m. – 10:00 a.m.	

BACK UP ROUTE ALERTING Operated by Mentor Fire Department		
Address:	Mentor Fire Department, Station 2 5025 Corduroy Rd Mentor, Ohio 44060	
Contact:	Robert Searles, Chief	
Action Location:	Same as above	
Date:	Wednesday, Sept 28, 2022	
Time:	6:00 p.m. - 8:00 p.m.	

Section 5: Back-up Documentation

Re-demonstration Criterion

- 1.9/1a1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 1.10 /1c1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader OR may be re-demonstrated as approved on a case-by-case basis by the Chairperson of the Regional Assistance Committee
- 1.11 /2b1 – May be re-demonstrated as approved on a case-by-case basis by the Chairperson of the Regional Assistance Committee
- 1.12 /2b2 – May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee
- 1.8/2c1 – May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee
- 1.9/3b1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 1.5/3c1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 1.9/3c2 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 1.10 /2d1– May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee
- 1.10 /2e1 – May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee
- 1.11 /3e1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 1.7/3e2 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 1.7/3f1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 2.5/2a1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 2.6/3a1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 3.5/1d1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 3.6/5a1 – May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee

- 3.2/5a3 – May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee
- 3.6/5a4 – May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee
- 3.7/5b1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader OR may be re-demonstrated as approved on a case-by-case basis by the Chairperson of the Regional Assistance Committee
- 5.3/6a1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 5.9/6c1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 5.10 /6b1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 5.11 /6d1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 5.12 /3d1 – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader
- 5.4/3d2 – May be re-demonstrated as approved on a case-by-case basis by the Chairman of the Regional Assistance Committee
- 5.4/(new) Reentry – May be re-demonstrated immediately for credit, at the decision of the Jurisdiction FEMA Team Leader

Section 6: Acronyms

EOC	Emergency Operations Center
EW Dosimetry Coordinator	Emergency Worker Decontamination Center
FD	Fire Department
ICP	Incident Command Post
JIC	Joint Information Center
LCEMA	Lake County Emergency Management Agency
LCSO	Lake County Sheriff's Office
ORO	Offsite Response Organization
RRR	Relocate, Reenter, Return