



After Action Report

Nine Mile Point

Radiological Emergency Preparedness

Exercise

Exercise Date: 10/05/2021



FEMA

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Executive Summary

On October 5, 2021 a plume exercise was conducted in the 10-mile Plume Exposure Pathway Emergency Planning Zone (EPZ) around the James A. FitzPatrick and Nine Mile Point Nuclear Power Plants and evaluated by the Federal Emergency Management Agency (FEMA), Region II. The purpose of the exercise was to assess the level of State and local preparedness in responding to a radiological emergency. This exercise was held in accordance with FEMA's policies and guidance concerning the exercise of State and local radiological emergency response plans (Radiological Emergency Response Plans) and procedures.

The most recent exercise at this site was conducted on June 25, 2019. The qualifying emergency preparedness exercise was conducted on September 15, 1981.

FEMA wishes to acknowledge the efforts of the many individuals in the State of New York, Oswego and Onondaga Counties who participated in this exercise. Protecting the public health and safety is the full-time job of some of the exercise participants and an additional assigned responsibility for others. Still others have willingly sought this responsibility by volunteering to provide vital emergency services to their communities. Cooperation and teamwork of all the participants were evident during this exercise.

The State and local organizations except where noted in this report, demonstrated knowledge of their emergency response plans and procedures and adequately implemented them. There were no Level 2 Findings and no Level 1 Findings identified as a result of this exercise.

Section 1: Exercise Overview

1.1 Exercise Details

Exercise Name

Nine Mile Point 2021 – Plume Exercise

Type of Exercise

Biennial

Exercise Date

10/05/2021

Exercise Off Scenario/Out of Sequence Dates

Oswego County Sep. 28 School & Daycare Center Interviews

Nine Mile Oct. 4 - 8 Exercise

Oswego County Oct. 20 General Population Reception Center

Oswego County Nov. 4 Medical Service Drill

Program

United States Department of Homeland Security, Federal Emergency Management Agency, Radiological Emergency Preparedness Program

Scenario Type

Minimal Release Plume

1.2 Exercise Planning Team Leadership

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1.3 Participating Organizations

New York State Emergency Operations Center

- New York State Division of Homeland Security and Emergency Services
- New York State Office of Emergency Management
- New York State Department of Health
- Exelon Nuclear
- New York State Watch Center
- New York State Energy Research & Development Authority
- New York State Office of Information Technology Services
- New York State Department of Public Service

Oswego County Joint Information Center

- New York State Spokes Person
- Oswego County Spokesperson
- Exelon Spokesperson

Oswego County

- Oswego County Administrator
- Vice Chairman Legislature
- Oswego County Emergency Management
- Oswego County Sheriff's Department
- Oswego County 911 Dispatch
- Oswego County Health Department
- Oswego County Public Information
- Oswego County Transportation
- Oswego County Information Technology

City of Fulton Fire Department

- Menter Ambulance
- New York State Office of Emergency Management
- New York State Department of Health
- Exelon Nuclear

Emergency Operations Facility

- New York State Office of Emergency Management
- New York State Department of Health
- New York State Public Service Commission
- Nuclear Regulatory Commission
- Oswego County Emergency Management
- Exelon Nuclear
- New York State Energy Research and Development Authority (NYSERDA)
- Federal Emergency Management Agency Regions 1, 2, 5, 6 and FEMA HQ

Section 2: Exercise Design Summary

2.1 Exercise Purpose and Design

On December 7, 1979, the President directed FEMA to assume the lead responsibility for all offsite nuclear planning and preparedness. FEMA's activities are conducted pursuant to 44 Code of Federal Regulations (CFR) Parts 350, 351 and 352. These regulations are a key element in the Radiological Emergency Preparedness (REP) Program that was established following the Three Mile Island Nuclear Station accident in March 1979.

FEMA Rule 44 CFR 350 establishes the policies and procedures for FEMA's initial and continued approval of State and local governments' radiological emergency planning and preparedness for commercial nuclear power plants. This approval is contingent, in part, on State and local governments' participation in joint exercises with licensees.

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

- Taking the lead in offsite emergency planning and in the review and evaluation of Radiological Emergency Response Plans and procedures developed by State and local governments;
- Determining whether such plans and procedures can be implemented on the basis of observation and evaluation of exercises of the plans and procedures conducted by State and local governments;
- Responding to requests by the U.S. Nuclear Regulatory Commission (NRC) pursuant to the Memorandum of Understanding between the NRC and FEMA dated June 17, 1993 (Federal Register, Vol. 58, No. 176, September 14, 1993); and
- Coordinating the activities of Federal agencies with responsibilities in the radiological emergency planning process:
 - U.S. Department of Commerce,
 - U.S. Nuclear Regulatory Commission,
 - U.S. Environmental Protection Agency,
 - U.S. Department of Energy,
 - U.S. Department of Health and Human Services,
 - U.S. Department of Transportation,
 - U.S. Department of Agriculture,
 - U.S. Department of the Interior, and
 - U.S. Food and Drug Administration

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

Formal submission of the Radiological Emergency Response Plans for the James A. FitzPatrick and Nine Mile Point Nuclear Power Plants to FEMA Region II by the New York State and

involved local jurisdictions occurred on July 15, 1981. Formal approval of the Radiological Emergency Response Plans was granted by FEMA on February 1, 1985, under 44 CFR 350.

A REP exercise was conducted on October 5, 2021 by FEMA Region II to assess the capabilities of the State and local emergency preparedness organizations in implementing their Radiological Emergency Response Plans and procedures to protect the public health and safety during a radiological emergency involving the James A. FitzPatrick and Nine Mile Point Nuclear Power Plants. The purpose of this exercise report is to present the exercise results and findings on the performance of the offsite response organizations (ORO) during a simulated radiological emergency.

The findings presented in this report are based on the evaluations of the Federal evaluator team, with final determinations made by the FEMA Region II RAC Chairperson, and approved by the Regional Administrator.

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

- NUREG-0654/FEMA-REP-1, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980;
- "Radiological Emergency Preparedness: Exercise Evaluation Methodology," published in the Federal Register on September 12, 2001, and revised April 25, 2002, and contained in the Interim REP Program Manual (January, 2015).

Section III of this report, entitled "Exercise Overview," presents basic information and data relevant to the exercise. This section of the report contains a description of the plume pathway EPZ, a listing of all participating jurisdictions and functional entities that were evaluated, and a tabular presentation of the time of actual occurrence of key exercise events and activities.

Section 3 of this report, entitled "Analysis and Capabilities," presents detailed information on the demonstration of applicable exercise evaluation at each jurisdiction or functional entity evaluated in a jurisdiction-based, issues-only format. Table 3.1 titled, "Summary of Exercise Evaluation" is a tabular representation of exercise criteria.

Section 3 also contains: (1) descriptions of all Level 1 and Level 2 Findings assessed during this exercise, recommended corrective actions, and the State and local governments' schedule of corrective actions for each identified exercise issue and (2) descriptions of unresolved Findings assessed during previous exercises and the status of the OROs' efforts to resolve them.

2.2 Exercise Core Capabilities and Objectives

Core capabilities-based planning allows for exercise planning teams to develop exercise objectives and observe exercise outcomes through a framework of specific action items. Using the Homeland Security Exercise and Evaluation Program methodology, the exercise objectives meet the Radiological Emergency Preparedness Program requirements and encompass the emergency preparedness evaluation areas.

The core capabilities scheduled for demonstration during this exercise were:

Operational Coordination: Establish and maintain a unified and coordinated operational structure and process that appropriately integrates all critical stakeholders and supports the execution of core capabilities.

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.

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.

Operational Communications: Ensure the capacity for timely communications in support of security, situational awareness, and operations by any and all means available, among and between affected communities in the impact area and all response forces.

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, medical, and behavioral health support, and products to all affected populations.

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

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.

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.

Intelligence and Information Sharing: Provide timely, accurate, and actionable information resulting from the planning, direction, collection, exploitation, processing, analysis, production, dissemination, evaluation, and feedback of available information concerning physical and cyber threats to the United States, its people, property, or interests; the development, proliferation, or use of WMDs; or any other matter bearing on U.S. national or homeland security by local, state, tribal, territorial, Federal, and other stakeholders. Information sharing is the ability to exchange intelligence, information, data, or knowledge among government or private sector entities, as appropriate. Duty Station

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, as well as the actions being taken and the assistance being made available, as appropriate.

Infrastructure Systems: Stabilize critical infrastructure functions, minimize health and safety threats, and efficiently restore and revitalize systems and services to support a viable, resilient community.

These core capabilities, when successfully demonstrated, meet the exercise objectives.

2.3 Exercise Scenario

~ 0835 Alert

~1015 Site Area Emergency (SAE)

~1145 General Emergency (GE)

A General Emergency Classification Level (ECL) should be declared by Nine Mile Point Nuclear Station (NMP). The GE will be declared based upon plant conditions, specifically by indications of a loss of two fission product barriers and loss or potential loss of third fission product barrier. The plume will be measurable on the centerline out to 10 miles from the plant. Air sampling at the centerline will detect minute amounts of radioactive iodine and particulates out to 10 miles from the plant.

~ 1430 - End of Exercise

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 10/05/2021 Biennial, 2021 Nine Mile Point Exercise.

Each jurisdiction and functional entity was evaluated based on the demonstration of core capabilities, capability targets, critical tasks, and the underlying Radiological Emergency Preparedness criteria as delineated in the Federal Emergency Management Agency Radiological Emergency Preparedness Program Manual dated January 2016.

Exercise criteria are listed by number, and the demonstration status of those criteria are indicated by the use of the following terms:

- Met (M): No Findings assessed and no unresolved Findings from prior exercises.
- Level 1 (L1) Finding: An observed or identified inadequacy of organizational performance in an exercise 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 (NPP).
- Level 2 (L2) Finding: An observed or identified inadequacy of organizational performance in an exercise that is not considered, by itself, to adversely impact public health and safety.
- Plan (P) Issue: An observed or identified inadequacy in the offsite response organizations' (ORO's) emergency plan/implementing procedures, rather than that of the ORO's performance.
- N: Not demonstrated

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3.2 Summary Results of Exercise Evaluation

<p>DATE: 10/04/2021 SITE: Nine Mile Point</p> <p>M: Met, L1: Level 1 Issue, L2: Level 2 Issue, P: Plan Issue, N: Not Demonstrated</p>	Mobilization	Facilities	Direction and Control	Communications Equipment	Equipment and Supplies to Support Operations
Emergency Operations Management	1a1	1b1	1c1	1d1	1e1
Emergency Operation Facility - Emergency Operations Facility	M		M	M	M
New York State Emergency Operation Center (Watch Center) - Watch Center	M			M	
Field Monitoring Team 2 - Field Monitoring Team	M			M	M
Field Monitoring Team 1 - Field Monitoring Team	M			M	M
Traffic and Access Control Points - Traffic and Access Control Points					M
Oswego Hospital - Medical Service Hospital					M
State Emergency Operation Center - State EOC	M		M	M	M
State Accident Assessment - State Accident Assessment					M
Joint Information Center (Fulton, NY) - Joint Information Center	M		M	M	M
County Accident Assessment - County Accident Assessment					M
Warning Point - Warning Point	M			M	
Oswego County - Risk County EOC	M		M	M	M

<div>DATE: 10/04/2021 SITE: Nine Mile Point</div> <div>M: Met, L1: Level 1 Issue, L2: Level 2 Issue, P: Plan Issue, N: Not Demonstrated</div>	Emergency Worker Exposure Control	Dose Assessment & PARs & PADs for the Emergency Event		PADs for the Protection of persons with disabilities and access/functional needs	Radiological Assessment and Decision-making for the Ingestion Exposure Pathway	Radiological Assessment & Decision-making Concerning Post-Plume Phase Relocation, Reentry, and Return
Protective Action Decision-Making	2a1	2b1	2b2	2c1	2d1	2e1
State Emergency Operation Center - State EOC			M			
State Accident Assessment - State Accident Assessment	M	M				
County Accident Assessment - County Accident Assessment	M	M				
Oswego County - Risk County EOC	M	M	M	M		

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DATE: 10/04/2021 SITE: Nine Mile Point M: Met, L1: Level 1 Issue, L2: Level 2 Issue, P: Plan Issue, N: Not Demonstrated	Implementation of Emergency Worker Exposure Control	Implementation of KI Decision for Institutionalized Individuals and the Public	Implementation of Protective Actions for persons with disabilities and access/functional needs		Implementation of Traffic and Access Control		Implementation of Ingestion Exposure Pathway Decisions		Implementation of Post-Plume Phase Relocation, Reentry, and Return Decisions
Protective Action Implementation	3a1	3b1	3c1	3c2	3d1	3d2	3e1	3e2	3f1
Field Monitoring Team 2 - Field Monitoring Team	M								
Field Monitoring Team 1 - Field Monitoring Team	M								
Traffic and Access Control Points - Traffic and Access	M				M				
Oswego County - Risk County EOC	M	M			M	M			
Oswego Hospital - Medical Service Hospital	M								
Oswego City Fire Dept - Medical Service Transportation	M								

<p>DATE: 10/04/2021 SITE: Nine Mile Point</p> <p>M: Met, L1: Level 1 Issue, L2: Level 2 Issue, P: Plan Issue, N: Not Demonstrated</p>	Plume Phase Field Measurement and Analyses			Post Plume Phase Field Measurements and Sampling	Laboratory Operations	Transportation and Treatment of Contaminated Injured Individuals
Field Measurements and Analyses	4a1	4a2	4a3	4b1	4c1	6d1
Field Monitoring Team 2 - Field Monitoring Team		M	M			
Field Monitoring Team 1 - Field Monitoring Team		M	M			
County Accident Assessment - County Accident Assessment		M				
Oswego Hospital - Medical Service Hospital						M
Oswego City Fire Dept - Medical Service Transportation						M

Section 4: Conclusion

This was a successful exercise due to the planning, dedication, training and practice drill that was conducted by the State of New York and Oswego County prior to the FEMA evaluated exercise.

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Appendix A: Exercise Timeline

Emergency Classification Level or Event	Time Utility Declared	NY State EOC	EOF Fulton, NY NMP	JIC Fulton, NY NMP	Oswego County EOC	Oswego County 911 Center
Unusual Event		N/A	N/A	N/A	N/A	
Alert	0833 (EOF) 0836 (JIC)		0836	0857	0843	0842
Site Area Emergency	0922 (EOF) 0922 (JIC)	0841	0922	0955	0932	
General Emergency	1128 (EOF) 1128 (JIC)	1142	1128	1144	1139	
Rad. Release Started	1005 (EOF)	1018	1005	1144	1128	
Rad. Release Terminated	N/A	N/A	N/A	N/A	N/A	
Facility Declared Operational		Partially activated	0921	1003	0935	
Governor Declared State of Emergency		0955		(NYS) 0955/ (OC) 1048	0955 (County) 1049 (State)	
Exercise Terminated		1329	1330	1328	1331	
Early Precautionary Actions		0935, closing of NYS Parks in Oswego County		0951	1040 (AG) 1005 (Air, RR, Parks)	
“Heads Up” Siren Activation		N/A		N/A	N/A	
“Heads Up” EAS message		N/A		0948		
1st Protective Action Decision: ERPAs 1, 2, 3, 4, 5, 9, 10, 26, and 27, and the ingestion of KI by the general public in the evacuating ERPAs. Ingestion of KI by Emergency Workers within the 10-mile EPZ		1155		1155	1155	
Shelter Evacuate: ERPAs 1, 2, 3, 4, 5, 9, 10, 26, and 27, and the ingestion of KI by the general public in the evacuating ERPAs. Ingestion of KI by Emergency Workers within the 10-mile EPZ						
Siren Activation		1206		1206	1206	
EAS Message		1209		1209	1209	

Appendix B: Exercise Key Leaders and Evaluators**Regional Assistance Committee (RAC) Chair: Susan O'Neill****Site Specialist: Miriam Weston**

Location / Venue	Evaluation Team	Core Capabilities
Emergency Operation Facility - Emergency Operations Facility	Bradley Dekorte	Prevention - Operational Coordination, Protection - Operational Coordination, Mitigation - Operational Coordination, Response - Environmental Response/Health and Safety, Response - Mass Care Services, Response - Operational Communications, Response - Operational Coordination, Response - Public Health, Healthcare, and Emergency Medical Services, Response - Situational Assessment, Recovery - Operational Coordination
New York State Emergency Operation Center (Watch Center) - Watch Center	Kevin Malone	Response - Operational Communications
Field Monitoring Team 2 - Field Monitoring Team	Timothy Pflieger	Prevention - Operational Coordination, Protection - Operational Coordination, Mitigation - Operational Coordination, Response - Environmental Response/Health and Safety, Response - Mass Care Services, Response - Operational Communications, Response - Operational Coordination, Response - Public Health, Healthcare, and Emergency Medical Services, Response - Situational Assessment, Recovery - Operational Coordination
Field Monitoring Team 1 - Field Monitoring Team	Kenneth Wierman jr	Prevention - Operational Coordination, Protection - Operational Coordination, Mitigation - Operational Coordination, Response - Environmental Response/Health and Safety, Response - Mass Care Services, Response - Operational Communications, Response - Operational Coordination, Response - Public Health, Healthcare, and Emergency Medical Services, Response - Situational Assessment, Recovery - Operational Coordination
Traffic and Access Control Points - Traffic and Access Control Points	Michele Sturman	Prevention - Operational Coordination, Protection - Operational Coordination, Mitigation - Operational Coordination, Response - Critical Transportation, Response - Environmental Response/Health and Safety, Response - Mass Care Services, Response - On-scene Security, Protection, and Law Enforcement, Response - Operational Coordination, Response - Public Health, Healthcare, and Emergency Medical Services, Recovery - Operational Coordination
State Emergency Operation Center - State EOC	Kevin Malone, Brian Hasemann	Prevention - Intelligence and Information Sharing, Prevention - Operational Coordination, Prevention - Public Information and Warning, Protection - Intelligence and Information Sharing, Protection -

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Location / Venue	Evaluation Team	Core Capabilities
		Operational Coordination, Protection - Public Information and Warning, Mitigation - Operational Coordination, Mitigation - Public Information and Warning, Response - Environmental Response/Health and Safety, Response - Mass Care Services, Response - Operational Communications, Response - Operational Coordination, Response - Public Health, Healthcare, and Emergency Medical Services, Response - Public Information and Warning, Response - Situational Assessment, Recovery - Operational Coordination, Recovery - Public Information and Warning
State Accident Assessment - State Accident Assessment	Michael Howe	Prevention - Intelligence and Information Sharing, Prevention - Operational Coordination, Protection - Intelligence and Information Sharing, Protection - Operational Coordination, Mitigation - Operational Coordination, Response - Environmental Response/Health and Safety, Response - Mass Care Services, Response - Operational Communications, Response - Operational Coordination, Response - Public Health, Healthcare, and Emergency Medical Services, Response - Situational Assessment, Recovery - Operational Coordination
Joint Information Center (Fulton, NY) - Joint Information Center	Linda Gee, Lisa Rink	Prevention - Operational Coordination, Prevention - Public Information and Warning, Protection - Operational Coordination, Protection - Public Information and Warning, Mitigation - Operational Coordination, Mitigation - Public Information and Warning, Response - Environmental Response/Health and Safety, Response - Mass Care Services, Response - Operational Communications, Response - Operational Coordination, Response - Public Health, Healthcare, and Emergency Medical Services, Response - Public Information and Warning, Response - Situational Assessment, Recovery - Operational Coordination, Recovery - Public Information and Warning
County Accident Assessment - County Accident Assessment	Kevin Robinson	Prevention - Intelligence and Information Sharing, Prevention - Operational Coordination, Protection - Intelligence and Information Sharing, Protection - Operational Coordination, Mitigation - Operational Coordination, Response - Environmental Response/Health and Safety, Response - Mass Care Services, Response - Operational Communications, Response - Operational Coordination, Response - Public Health, Healthcare, and Emergency Medical Services, Response - Situational Assessment, Recovery - Operational Coordination
Warning Point - Warning Point	Rufus Mobley	Response - Operational Communications
Oswego County - Risk County EOC	Taneeka Hollins, Helen LaForge, DEBRA	Prevention - Intelligence and Information Sharing, Prevention - Operational Coordination, Prevention -

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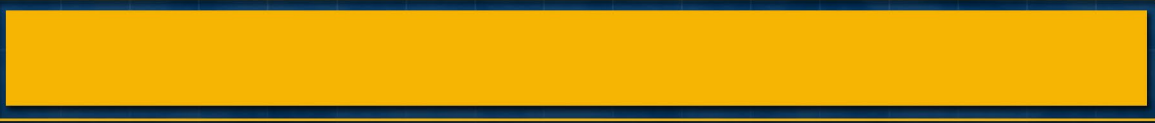
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Location / Venue	Evaluation Team	Core Capabilities
	SCHNECK, Kerris Bates	Public Information and Warning, Protection - Intelligence and Information Sharing, Protection - Operational Coordination, Protection - Public Information and Warning, Mitigation - Operational Coordination, Mitigation - Public Information and Warning, Response - Critical Transportation, Response - Environmental Response/Health and Safety, Response - Infrastructure Systems, Response - Mass Care Services, Response - On-scene Security, Protection, and Law Enforcement, Response - Operational Communications, Response - Operational Coordination, Response - Public Health, Healthcare, and Emergency Medical Services, Response - Public Information and Warning, Response - Situational Assessment, Recovery - Operational Coordination, Recovery - Public Information and Warning

Appendix C: Extent of Play Agreements

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N A T I O N A L E X E R C I S E P R O G R A M

Exercise Plan

NINE MILE POINT FEMA EVALUATED EXERCISE- **DRAFT**

**U.S. DEPARTMENT OF HOMELAND SECURITY
DIVISION OF HOMELAND SECURITY AND EMERGENCY SERVICES**

OFFICE OF EMERGENCY MANAGEMENT



Exercise Date: 10/05/2021



FEMA
IV

Revision Date: August 2021

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Participation Matrix

Radiological Emergency Preparedness (REP)/
Homeland Security Exercise and Evaluation Program (HSEEP)

ExPlan

Nine Mile Point Exercise

PREFACE

The Nine Mile Point Full Scale Exercise (FSE) will be conducted on October 05, 2021. This ExPlan was produced in coordination of the State Exercise Director and the FEMA Region II RAC Chair with the input, advice, and assistance of the Exercise Planning Team (EPT), following the guidance set forth in the Homeland Security Exercise and Evaluation Program (HSEEP).

The ExPlan gives officials, observers, media personnel, and players from participating organizations the information necessary to participate in a nuclear power plant accident response exercise. The information in this document is current as of the date of publication and is subject to change as dictated by the EPT.

The Exercise is an *unclassified exercise*. The control of information is based more on public sensitivity regarding the nature of the exercise than on the actual exercise content. The ExPlan may be viewed by all exercise participants.

All exercise participants should use appropriate guidelines to ensure the proper control of information within their areas of expertise and to protect this material in accordance with current jurisdictional directives. Public release of exercise materials to third parties is at the discretion of the State Exercise Director and FEMA.

Radiological Emergency Preparedness (REP)/
Homeland Security Exercise and Evaluation Program (HSEEP)

ExPlan

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CHAPTER 1: GENERAL INFORMATION

Introduction

The Nine Mile Point Exercise is designed for players to demonstrate emergency response plans, policies, and procedures as they pertain to a nuclear power plant accident scenario and related controller inject messages. An FSE is a complex event that requires detailed planning. To conduct an effective exercise, subject matter experts (SMEs) and representatives from numerous agencies take part in the planning process as well as exercise conduct and evaluation.

Purpose

The purpose of this exercise is to evaluate player actions against current response plans and capabilities for a nuclear power plant-related incident, and to comply with the requirements of 44 CFR 350 and the guidelines of NUREG 0654/FEMA-REP-1. Exercise planners utilized the elements described in the Radiological Emergency Preparedness (REP) Program Manual (January 2016) to develop this exercise. The objective of FEMA REP Evaluated Exercises is to demonstrate reasonable assurance that the public can be protected during a nuclear power plant emergency.

Core Capabilities

The core capabilities listed below have been selected by the EPT from the priority capabilities identified in the FEMA REP Program Manual, Part IV. These Core Capabilities provide the foundation for development of the exercise objectives and scenario, as the purpose of this exercise is to measure and validate performance of these capabilities and their associated activities and tasks.

The list of Offsite Core Capabilities are as follows and are further described by their corresponding capabilities, NUREG-0654 Planning Standards and Exercise Evaluation criteria in Appendix B:

- Common:
- Prevention
- Protection
- Response
- Recovery

Additionally, each capability is linked to several corresponding activities and tasks to provide additional detail. Exercise objectives and Capabilities/REP Criteria selected to be exercised are discussed in the Extent-of-Play.

CHAPTER 2: EXERCISE LOGISTICS

Exercise Summary

General

Exercise play will conclude when the State Exercise Director in consultation with the FEMA Region II RAC Chair determine that the exercise criteria have been met at each evaluated location.

Assumptions

Assumptions constitute the implied factual foundation for the exercise and are assumed to be present before the start of the exercise. The following general assumptions apply to the Nine Mile Point REP Exercise:

- The exercise will be graded against the agreed upon REP criteria in the extent of play.
- Elements outside the scope of the REP criteria will not be graded.
- This exercise will focus its evaluation on systems and processes, not individuals.
- Exercise simulation will be realistic and plausible, containing sufficient detail from which to respond.
- Exercise players will react to the information and situations as they are presented, in the same manner as if this had been a real event.

Constructs and Constraints

Although there are several constructs and constraints (also known as exercise artificialities) for any exercise, the EPT recognizes and accepts the following as necessary:

- The nature and timing of certain scenario events may involve assumptions that may seem unrealistic to players but are necessary to drive certain decisions and actions.
- Exercise communication and coordination will be limited to the participating exercise venues as identified in the EOP.
- Only those communication methods outlined in plans and procedures will be available for players to use during the exercise.
- Out-of-Sequence play is allowed as identified in the EOP.
- Certain simulations are allowed as identified in the EOP.
- The EOP identifies agreements used to guide exercise participants on the scope and manner in which the exercise will be conducted and evaluated.

Exercise Tools

Controller and Evaluator Package

This Package is designed to help exercise Controllers and Evaluators conduct and evaluate an effective exercise. Should a Player, Observer, or Media Representative find an unattended package, it should be provided to the nearest Controller or Evaluator.

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Exercise Implementation

Exercise Play

Exercise play will begin in the morning on October 5, 2021, with a situation notification update to participating agencies in accordance with plans and procedures. Play will proceed according to the events as outlined in the scenario, and in accordance with established plans and procedures. Exercise play will continue for the planned exercise duration or until the State Exercise Director in consultation with the FEMA Region II RAC Chair determine that the exercise criteria have been met at each evaluated location.

Exercise Rules

The following are the general rules that govern exercise play:

- Real-world emergency actions take priority over exercise actions.
- Exercise participants will comply with real-world response procedures, unless otherwise directed by control staff.
- All spoken and written communication will start and end with the statement, “This is an exercise”.
- Exercise participants placing telephone calls or initiating radio communication must identify the organization, agency, office, and/or individual with whom they wish to speak.
- If a real emergency occurs that affects the entire exercise, the exercise may be suspended or terminated at the discretion of the State Exercise Director in consultation with the FEMA Region II RAC Chair.

Safety Requirements

General

Exercise participant safety takes priority over exercise events. Professional health and safety ethics should guide all participants to operate in their assigned roles in the safest manner possible. The following general requirements apply to the exercise:

- All exercise participants will serve as safety observers while the exercise activities are underway. Any safety concerns must be immediately reported to the player/facility supervisor and to the facility’s Lead Controller for a prompt decision on the best manner to proceed.
- All organizations will comply with their respective environmental, health, and safety plans and procedures, as well as the appropriate Federal, State, and local environmental health and safety regulations.

COVID-19 Safety Precautions

- All exercise participants (including personnel, players, controllers, evaluators and observers) shall adhere to NYS COVID-19 safety precautions and guidelines, as well as any other requirements outlined by those facilities where people have been assigned or placed. Several key safety precautions are listed below.

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- Social distancing shall be maintained. Maintain an appropriate distance from others.
- Face coverings must always be worn properly. If a face covering is required, it should be worn properly.
- Regular hand washing with soap and water for at least 20 seconds. If soap and water is not available, use an alcohol-based hand sanitizer that contains at least 60% alcohol.

Exercise Setup

Exercise setup involves the pre-staging and dispersal of exercise materials; including registration materials, documentation, signage, and other equipment as appropriate.

Site Access

Security

Each evaluated jurisdiction/agency will control entry to the exercise at their location. To prevent confusion and interruption of the exercise, access to the exercise sites will be limited to exercise participants only. Exercise observers must have approval of the respective lead facility agency at each venue. Players should advise their location's Controller or Evaluator if an unauthorized person is present. Each organization should follow its internal security procedures, augmented as necessary to comply with exercise requirements.

Observer Coordination

For this particular exercise, observers will not be permitted.

Parking and Directions

Parking information and directions to each location will be provided to all exercise participants.

Restroom Facilities

Restroom facilities will be available at each venue.

Exercise Identification

All exercise personnel, players, controllers, and evaluators will be issued identification badges or by other identification means.

Communications Plan

Player Communication

Players will use in-place agency communication systems as outlined in plans and procedures. Additional communication assets may be made available as the exercise progresses. The need to maintain capability for a real-world response may preclude the use of certain communication channels or systems that would usually be available for an actual emergency incident. In no instance will exercise communication interfere with real-world emergency communications. Each jurisdiction/agency will coordinate its own internal communication networks and channels.

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Public Affairs

This exercise enables Players to demonstrate an increased readiness to deal with a nuclear power plant incident. Any nuclear power plant exercise may be a newsworthy event.

For the Nine Mile Point exercise, media inquiries should be directed to William Douglass of FEMA Region II External Affairs (office number 212-680-3665 and cell number 917-561-3223). Other specific media contacts during the exercise are as follows:

- | | | |
|------------------|--------------------|--------------|
| • New York State | Chet Lasell | 518-402-6472 |
| • Oswego County | Terry Bennett | 315-591-9150 |
| • Exelon | Susan Brannan Cole | 315-349-5521 |

Chapter 3: Participant Guidelines

Exercise Staff

State Exercise Director

The State Exercise Director has the overall responsibility for planning, coordinating, and overseeing all exercise functions. He/she manages and monitors the exercise activities from the main Control Cell and maintains a close dialogue with the Lead Controllers and the FEMA Region II RAC Chair or designee regarding the status of play and the achievement of the exercise design objectives.

State Lead Controllers

The State Lead Controllers monitor exercise progress at each venue and coordinate decisions regarding deviations or significant changes to the scenario caused by unexpected developments during play. The State Lead Controller at each location will coordinate any changes that impact the scenario or affect other areas of play. The State Lead Controllers monitor actions by individual Controllers and ensure they implement all designated and modified actions at the appropriate time. The State Lead Controllers debrief the Controllers after the exercise and oversees the setup and takedown of the exercise and assembly of pertinent documentation at each venue.

State/County Controllers

At least one State or County controller will be stationed at each venue, with the field teams participating in the exercise, and at each out-of-sequence interview. The individual controllers issue exercise materials to players as required and monitor the exercise timeline. Controllers also provide injects to the players.

FEMA Lead Evaluator

The FEMA Region II RAC Chair or designee assumes the role of FEMA Lead Evaluator for the Exercise. The FEMA Lead Evaluator monitors exercise progress and stays in contact with the State Exercise Director regarding changes to the exercise during play.

FEMA Evaluators

FEMA Evaluators work under the direction of the FEMA Lead Evaluator and in partnership with State Lead Controllers. FEMA Evaluators are subject matter experts who record events that take place during the exercise and assess/submit documentation for review and inclusion in the Federal After-Action Report/Improvement Plan (AAR/IP). Evaluators should refrain from any direct interaction with the players during exercise play except with the facilitation of a State Controller for clarification of information, during scheduled interviews, or coordination of re-demonstrations.

Media Personnel

Some media personnel may be present as observers pending approval by the exercise support team members. Media personnel and interaction may also be simulated by actors to enhance realism and meet related exercise objectives. A dedicated group of exercise controllers should be assigned to manage these groups.

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Players

Players are agency personnel who have an active role in responding to the simulated emergency. Players will perform their regular roles and responsibilities during the exercise. Player's focus will be on responding to and mitigating the impact of the simulated emergency.

Player Instructions

Before the Exercise

- Review the appropriate emergency plans, procedures, and exercise support documents.
- Wear appropriate uniform/identification badge.
- If you gain knowledge of the scenario before the exercise, notify a Controller so that appropriate actions can be taken to ensure a valid evaluation.
- Please sign in.

During the Exercise

- Respond to the exercise events and information as if the emergency were real, unless otherwise directed by a Controller.
- Controllers will only give you information they are specifically directed to disseminate. You are expected to obtain other necessary information through existing emergency information channels.
- Do not engage in personal conversations with Controllers, Evaluators, or media personnel while the exercise is in progress. If you are asked an exercise-related question, give a short, concise answer. If you are busy and cannot immediately respond, indicate so, but report back with an answer at the earliest time possible.
- If you do not understand the scope of the exercise or if you are uncertain about an organization's or agency's participation in an exercise, ask a Controller.
- Parts of the scenario may seem implausible. Recognize that the exercise has objectives to satisfy and may require the incorporation of unrealistic aspects.
- When communicating with other jurisdictions/agencies, identify "This is an exercise", identify the organization, agency, office, and/or individual with which you want to speak.
- Maintain a log of your activities. Many times, this log may include documentation of activities missed by a controller or evaluator.

Following the Exercise

- At the end of the exercise at your facility, participate in the debriefing if requested by the agency. As a reminder, the results of the exercise at this point are preliminary.
- Provide any notes or materials generated from the exercise to your State Controller or FEMA Evaluator for review.

CHAPTER 4: EVALUATION AND POST-EXERCISE ACTIVITIES

Exercise Documentation

After the exercise, data collected by State/County Controllers, FEMA Evaluators, and Players will be used to identify strengths and areas for improvement in the context of the exercise design objectives.

Participants and Public/Media Briefings

The Participants Briefing will be conducted at 10:00 AM, Friday, October 8, 2021, via Zoom/Teams. The participants brief will offer open discussion concerning preliminary exercise evaluation results and permit clarification of any preliminary issues.

The Public/Media Briefing will be conducted at 11:00 AM Friday, October 8, 2021, via Zoom/Teams.

After Action Report/ Improvement Plan (AAR/IP)

The FEMA AAR/IP is the culmination of the exercise. It is a written report detailing the exercise evaluation results. The AAR/IP will include the timeline, executive summary, scenario description, mission outcomes, and capability analysis. The AAR/IP will identify any areas for improvement (e.g., Level 1 & 2 Findings or planning issues) that require resolution. Follow-up on issues resolution will be the responsibility of respective participating organizations for the issues that are assigned to them.

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APPENDIX A: EXERCISE SCHEDULE

Time (Tentative)	Personnel	Activity
Monday October 4, 2021		
10:00 AM	RAC Chair, State, County, Licensee, & Team Leads	Pre-Exercise Briefing virtually
12:00 PM	Federal Evaluation Team	Team meetings. Evaluators meet with Team Leaders to discuss assignments and exercise reporting requirements.
1:00 PM	Evaluators	Familiarize themselves with field assignments
2:00 PM	Controllers	Controller briefings at Exelon JIC in Fulton
Tuesday, October 5, 2021		
Per Scenario	All	Report to assigned locations for exercise (30 min. prior to exercise start time)
At completion of Exercise	Participants, Controllers, and observers	Hot wash/Player debrief at each location
Evening	FEMA Team Leaders	Post event timeline
Wednesday, October 6, 2021		
9:00 AM	RAC Chair, FEMA Evaluators	Exercise Debriefing: Timeline discussions, Overview of Exercise, Issue Identification & Summaries. Submit "Description of Issues" (if any) to Team leader
11:00 AM	FEMA Evaluators	Evaluators to begin write-ups
11:00 AM	Lead Controllers, Other	State Controller Debriefing – Conference Call
Thursday, October 7, 2021		
10 AM – 4 PM	FEMA Evaluators	Evaluators continue write-ups; Complete Narrative Summaries and submit for approval.
4 PM	RAC Chair and Team Leaders	Team Leader Meeting (if needed). RAC Chair or designee meets with Team Leaders to discuss Exercise Issues. Remaining evaluators need not attend, unless requested by RAC Chair or designee.
Friday, October 8, 2021		
9:00 AM	RAC Chair	RAC Chair, or designee determines the release of Evaluators. May request certain evaluators to attend Participant Briefing.
10:00 AM	Federal, State, County, Licensee	Participant Briefing held virtually via Teams
11:00 AM-12:30 PM	Federal, State, County, Licensee	Public/Media Briefing held virtually via Teams

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APPENDIX B: 2021 NINE MILE POINT REP EXERCISE: CORE CAPABILITIES

The following abbreviations are used to indicate operational locations within each jurisdiction where capabilities will be demonstrated:

WP: Warning Point EOC: Emergency Operations Center JIC: Joint Information Center

Core Capability	Description	NUREG-0654 Standards	FEMA Ex Eval Criteria	NYS	Oswego
Public Information and Warning	Demonstrate the ability to coordinate the release of public information messages and warnings.	E, G	5.a.1, 5.a.3	EOC, JIC	EOC, JIC, ICP
Operational Coordination	Demonstrate the ability to activate staff and operate the Emergency Operations Center.	A,C,H,I,J,K	1.a.1, 1.c.1, 1.e.1	EOC	EOC
Environmental Response/ Health and Safety	Demonstrate the capability to perform dose assessment and field monitoring.		2.b.1, 4.a.2, 4.a.3	EOC	EOC/FMT
Operational Communications	At least two communication systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations.	F	1.d.1	WP, EOC, JIC	WP, EOC, JIC
Logistics and Supply Chain Management	Demonstrate that equipment, maps, displays, monitoring instruments, dosimetry, potassium iodide (KI), and other supplies are sufficient to support	H, I, J, K	1.e.1	WP, EOC, JIC	WP, EOC, JIC

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	emergency operations				
Situational Assessment	A decision-making process involving consideration of appropriate factors and necessary coordination is used to make precautionary and/or protective actions decisions for the general public.	A,C,D,J	2.b.2, 2.b.1	Command Room	Command Room

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APPENDIX C: EXTENT OF PLAY

The Extent of Play for each participating agency is included under separate cover as Appendix C.

Offsite Participation Matrix for October 5, 2021 NMP REP Exercise

	NYS	Oswego	Radio Station	NMP
Warning Point	Yes	Yes	N/A	N/A
Activation - Limited or Full	Limited	Limited	N/A	Full
Activation - call in or pre-staged	Call In & Pre-staged	Call In	N/A	Call In State Liaison pre-staged
Command and Control	Yes	Yes	N/A	Yes
# State/Co Liaisons to EOF	1	1	N/A	2
Licensee Tech	1	1	N/A	N/A
Dose Assessment	Yes	Yes	N/A	Yes
Field Teams (#)	N/A	Yes - 2	N/A	Yes - 2
Staff to JIC	Yes	Yes	N/A	Yes
Public Inquiry	N/A	N/A	N/A	Yes
Media Monitoring	N/A	N/A	N/A	Yes
EAS Dissemination	N/A	10/6 Yes	10/6 Yes	N/A

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END OF DOCUMENT