



After Action Report

R.E. Ginna Nuclear Power Plant - NY
Radiological Emergency Preparedness Exercise
Exercise Date: 08/20-21/2019

December 16, 2019

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Executive Summary

On August 20 & 21, 2019 a Post Plume exercise was conducted in the 10-mile plume exposure pathway, emergency planning zone (EPZ) around the Robert E. Ginna Nuclear Power Station by the Federal Emergency Management Agency (FEMA), Region II. The purpose of the exercise and the out-of-sequence demonstrations was to assess the level of State and local preparedness in responding to a radiological emergency. The exercise and out-of-sequence demonstrations were held in accordance with FEMA's policies and guidance concerning the exercise of State and local radiological emergency response plans (RERP) and procedures.

The most recent prior full-scale exercise at this site was conducted on August 22, 2017. The qualifying emergency preparedness exercise was conducted on January 21, 1982.

FEMA wishes to acknowledge the efforts of the many individuals in the State of New York and the risk jurisdictions of Monroe and Wayne Counties who were evaluated at 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 1 or level 2 Findings identified as a result of this exercise. There was one Planning Issue that was resolved through re-demonstration.

Section 1: Exercise Overview

1.1 Exercise Details

Exercise Name

2019 Robert E. Ginna Post Plume

Type of Exercise

Post Plume

Exercise Date

08/20/2019 - 08/21/2019

Program

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

Mission

Preparedness

Scenario Type

Rapid Escalation

1.2 Exercise Planning Team Leadership

Susan O'Neill
Federal Planning Team Lead
FEMA Region II Emergency Management
Branch Chief/ RAC Chair
One World Trade Center – New York, NY 10007

Kevin Malone
Federal Planning Team Lead
FEMA Region II Emergency Management Specialist
One World Trade Center – New York, NY 10007

William Cullen
Supervisor Technological Hazards
FEMA Region II
One World Trade Center – New York, NY 10007

Gary Machina
NYSOEM Section Chief
1200 Washington Ave, Building 22
Albany, NY 12226

Julie Gillard
Sr. Emergency Preparedness Specialist
Corporate Emergency Preparedness
Exelon Corp.

1.3 Participating Organizations

New York State

New York State Watch Center
NYS Office of Emergency Management
NYS Dept. of Health
US Nuclear Regulatory Commission
NYS Information and Technology
NYS Dept. of Homeland Security and Emergency Services
New York State Police
Exelon Corporation
NYS Dept. of Parks and Recreation
NYS Radiological Amateur Civil Emergency Service (RACES)

Risk Jurisdictions

City of Rochester Department of Environmental Services
City of Rochester Emergency Communications Department
Monroe County Community College
Monroe County Department of Human Services
Monroe County Department of Public Health
Monroe County Department of Public Safety
Monroe County Division of Pure Waters
Monroe County Emergency Communications Department
Monroe County Emergency Management Agency
Monroe County Emergency Medical Services
Monroe County Department of Environmental Services
Monroe County Executive
Monroe County Fire Bureau
Monroe County Geographic Information System (GIS) Services Division
Monroe County Information Services
Monroe County Law Department
Monroe County Liaison
Monroe County Probation
Monroe County Public Information Officer
Monroe County Public Safety Communications
Monroe County Security
Monroe County Sheriff's Office
Pultneyville Fire Department
Rochester Police Department

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Wayne County Attorney
Wayne County Board of Supervisors
Wayne County Dose Assessment
Wayne County Emergency Medical Services
Wayne County Highway Department
Wayne County Information Technology
Wayne County Liaison
Wayne County Office of Emergency Management
Wayne County Public Health Department
Wayne County Public Information Officer
Wayne County Department of Public Works
Wayne County Sheriff's Office
Webster Police Department
Webster School District
Town of Webster

Private Organizations

American Red Cross
Exelon Corporation - R. E. Ginna Nuclear Power Plant
New York State Radio Amateur Civil Emergency Services
Radio Amateur Civil Emergency Service (RACES)
Regional Transit Service
WHAM Radio Station

Federal Jurisdictions

Federal Bureau of Investigation
Federal Emergency Management Agency
US Department of Agriculture
United States Nuclear Regulatory Commission
Department of Home Land Security

Section 2: Exercise Design Summary

2.1 Exercise Purpose and Design

2.1 Exercise Purpose and Design

The DHS/FEMA Region II Office evaluated the exercise on August 20 & 22, 2019 to assess the capabilities of the 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 Robert E. Ginna Nuclear Power Plant (Ginna). The purpose of this report is to present the results of the findings on the performance of the offsite response organizations during a simulated radiological emergency.

2.2 Exercise Objectives, Capabilities and Activities

Capabilities-based planning allows for exercise planning teams to develop exercise objectives and observe exercise outcomes through a framework of specific action items that were derived from the Core Capabilities List. The capabilities listed below form the foundation for the organization of all FEMA Region II Radiological Emergency Preparedness Program (REPP) objectives and observations in this exercise.

Environmental Response/Health and Safety

Description: 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

Description: 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

Description: 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.

Operational Coordination

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

Planning

Description: Conduct a systematic process engaging the whole community as appropriate in the development of executable strategic, operational, and/or tactical-level approaches to meet defined objectives.

Public Health, Healthcare, and Emergency Medical Services

Description: 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.

Public Information and Warning

Description: 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.

Situational Assessment

Description: 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.

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 Ginna Exercise Plan, Extent of Play Agreement Rev. 6.

2.3 Exercise Scenario

- 0830 – Exercise begins
- 0832 – Steam Generator Tube Rupture (SGTR)
- Conditions met for **Alert** ECL; declared NLT 0902
- Low level radioactive release begins
- 0855 – Steam generator safety valve lifts
- Conditions met for **Site Area Emergency** ECL; declared NLT 0925
- Radioactive release increases
- 1105 – Reactor Vessel Level Indication System (RVLIS) drops to <50%•
Conditions met for **General Emergency** ECL; declared NLT 1135
- Default PAR: evacuate ERPAs W1, W2, W7, M1; remaining ERPAs
monitor/prepare; supplemental KI recommendation for public and emergency workers
(close, but not exceeding EPA PAG)•~1430 – Exercise ends

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 08/20 & 21, 2019 Robert E. Ginna Post Plume 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

3.2 Summary Results of Exercise Evaluation

DATE: 08/20 & 21, 2019 SITE: R.E. Ginna Nuclear Power Plant - NY M: Met, L1: Level 1 Issue, L2: Level 2 Issue, P: Plan Issue, N: Not Demonstrated	Mobilization	Facilities	Direction and Control	Communications Equipment	Equipment and Supplies to Support Operations
Emergency Operations Management	1a1	1b1	1c1	1d1	1e1
Day 2 Post Plume Tabletop Wayne County EOC			M		
Monroe County, NY Reception Center: Rush-Henrietta High School				M	M
Wayne County Warning Point	M			M	

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Wayne County EOC Broadcast Message Observation OOS				M	
Monroe County Accident Assessment					M
Wayne County Accident Assessment					M
Ginna Emergency Operations Facility	M		M	M	M
Monroe County FMT A	M			M	M
Wayne County TCP ACP					M
Wayne County Back Up Route Alerting					M
NY State Accident Assessment					M
Greece Olympus High School				M	M
Monre County EOC	M		P	M	M
NY State EOC	M		M	M	M
Wayne County EOC	M		M	M	M
Macedon JIC	M		M	M	M
Wayne County FMT B	M			M	M
Wayne County FMT A	M			M	M
Monroe County FMT B	M			M	M
Monroe County TCAP					M
Monroe County Warning Point	M			M	
EAS Station WHAM				M	
New York State Watch Center	M			M	

<p style="text-align: center;">DATE: 08/20 & 21, 2019 SITE: R.E. Ginna Nuclear Power Plant - NY</p> <p style="text-align: center;">M: Met, L1: Level 1 Issue, L2: Level 2 Issue, P: Plan Issue, N: Not Demonstrated</p>	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
Day 2 Post Plume Tabletop Wayne County EOC						M
Monroe County Accident Assessment	M	M				
Wayne County Accident Assessment	M	M				
Ginna Emergency Operations Facility	M	M				
NY State Accident Assessment	M	M				
Monre County EOC		M	M	M		
NY State EOC			M	M		
Wayne County EOC		M	M	M		

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Protective Action Implementation	3a1	3b1	3c1	3c2	3d1	3d2	3e1	3e2	3f1
Day 2 Post Plume Tabletop Wayne County EOC									M
Monroe County, NY Reception Center: Rush-Henrietta	M								
Monroe County Accident Assessment	M								
Wayne County Accident Assessment	M								
Monroe County FMT A	M								
Wayne County TCP ACP	M				M				
Wayne County Back Up Route Alerting	M								
Greece Olympus High School	M								
Ontario Volunteer Emergency Squad Wayne County OOS	M								
Newark Wayne Community Hospital Wayne County	M								
Monre County EOC			M	M	M	M			
Wayne County EOC			M	M	M	M			
Wayne County FMT B	M								
Wayne County FMT A	M								
Monroe County FMT B	M								
Monroe County TCAP	M				M				
Rochester General Hospital Monroe County OOS	M								
American Medical Response Monroe County OOS	M								

DATE: 08/20 & 21, 2019 SITE: R.E. Ginna Nuclear Power Plant - NY M: Met, L1: Level 1 Issue, L2: Level 2 Issue, P: Plan Issue, N: Not Demonstrated	Plume Phase Field Measurement and Analyses			Post Plume Phase Field Measurements and Sampling	Laboratory Operations
Field Measurements and Analyses	4a1	4a2	4a3	4b1	4c1
Monroe County Accident Assessment		M			
Wayne County Accident Assessment		M			
Monroe County FMT A			M		
Wayne County FMT B			M		
Wayne County FMT A			M		
Monroe County FMT B			M		

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DATE: 08/20 & 21, 2019 SITE: R.E. Ginna Nuclear Power Plant - NY M: Met, L1: Level 1 Issue, L2: Level 2 Issue, P: Plan Issue, N: Not Demonstrated		Activation of the Prompt Alert and Notification System				Emergency Information and Instructions for the Public and the Media
Emergency Notification and Public Information		5a1	5a2	5a3	5a4	5b1
Wayne County EOC Broadcast Message Observation OOS		M				M
Wayne County Back Up Route Alerting				M		
Monroe County EOC		M		M		M
NY State EOC		M				M
Wayne County EOC		M		M		M
Macedon JIC		M				M
Monroe County Warning Point				M		
EAS Station WHAM		M				M

DATE: 08/20 & 21, 2019 SITE: R.E. Ginna Nuclear Power Plant - NY M: Met, L1: Level 1 Issue, L2: Level 2 Issue, P: Plan Issue, N: Not Demonstrated		Monitoring, Decontamination, and Registration of Evacuees	Monitoring and Decontamination of Emergency Workers and their Equipment and Vehicles	Temporary Care of Evacuees	Transportation and Treatment of Contaminated Injured Individuals
Emergency Notification and Public Information		6a1	6b1	6c1	6d1
Monroe County, NY Reception Center: Rush-Henrietta High School		M			
Greece Olympus High School		M		M	
Ontario Volunteer Emergency Squad Wayne County OOS					M
Newark Wayne Community Hospital Wayne County OOS					M
Rochester General Hospital Monroe County OOS					M
American Medical Response Monroe County OOS					M

3.3 Critical Evaluation Summaries

3.3.1.1 EAS Radio Station (WSYR)

3.3.1.2 New York State - Accident Assessment

3.3.1.3 New York State - Emergency Operations Center

3.3.1.4 New York State - Warning Point

3.3.1.5 Robert E. Ginna - Emergency Operations Facility

3.3.1.6 Robert E. Ginna - Joint Information Center

In summary, the status of DHS/FEMA criteria for the Risk jurisdiction is as follows:

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

3.3.2 Risk Jurisdictions

3.3.2.1 Monroe County County - Backup Route Alerting

3.3.2.2 Monroe County - Field Monitoring Team A

3.3.2.3 Monroe County - Field Monitoring Team B

3.3.2.4 Monroe County - Traffic Control Point

3.3.2.5 Monroe County - Accident Assessment

3.3.2.6 Monroe County - Emergency Operations Center

3.3.2.7 Monroe County - NY Reception Center, Rush-Henrietta High School

3.3.2.8 Wayne County Out of Sequence (OOS) - Ontario Volunteer Emergency Squad

3.3.2.9 Monroe County OOS - Rochester General Hospital

3.3.2.10 Monreo County - American Medical Response

3.3.2.11 Wayne County - Warning Point

3.3.2.12 Wayne County - Backup Route Alerting

3.3.2.13 Wayne County – Field Monitoring Team A

3.3.2.14 Wayne County - Field Monitoring Team B

3.3.2.15 Wayne County – Traffic Control

3.3.2.16 Wayne County Accident Assessment

3.3.2.17 Wayne County – Emergency Operations Center

In summary, the status of DHS/FEMA criteria for the Risk jurisdiction is as follows:

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

ISSUE:27-19-1.c.1-P-01

LOCATION: Monroe County Emergency Operations Center

CONDITION:

At 0938, an Initial Protective Active Decision (PAD) was made and disseminated via News Release #1 for all Residents in Monroe County Emergency Response Planning Areas (ERPAs) (M-1, M-2, M-3, M-4, M-5, M-6, M-7, M-8, M-9 and M-LAKE) by Monroe County Executive Order for – No Unnessary Travel and to Shelter in Place as a precautionary action. Shelter in Place is a Protective Action and not a Precautionary Action and should have been followed by an Emergency Alert System (EAS) message and press release to notify the general public in the 10-Mile Emergency Planning Zone (EPZ).

CORRECTIVE ACTION DEMONSTRATED:

During the First PAD at 1139 to evacuate ERPAS M1, M3 & M Lake the Monroe County Emergency Manager correctly demonstrated the Alert and Notification Procedure by initiating an EAS message at 1154 followed by a press release to notify the general public of an emergency in the 10-Mile Emergency Planning Zone (EPZ). Through interview the Monroe County Emergency Manager explained the Executive Order for – No Unnessary Travel and to Shelter in Place was a precautionary action intended to clear the roads as the county typically

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does for snow storms. The Executive Order for Shelter in Place was not intended to be a Protective Action. The term Precautionary Action and Protective Action should be more clearly defined in the context of their programmatic application and implication for Alert and Notification of the public in the 10 mile emergency planning zone.

Section 4: Conclusion

Based on the results of the exercise, the offsite radiological emergency response plans and preparedness for the State of New York and the affected local jurisdiction of Monroe and Wayne counties are deemed adequate to provide reasonable assurance that appropriate measures can be taken to protect the health and safety of the public in the event of a radiological emergency. Therefore, 44 CFR Part 350 approval of the offsite radiological emergency response plans and preparedness for the State of New York site-specific to the Ginna Nuclear Power Plant will remain in effect.

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Appendix A: Exercise Timeline

Emergency Classification Level or Event	Time Utility Declared	Time That Notification Was Received or Action Was Taken											
		NY State EOC	EOF	JIC	Wayne County EOC	Wayne County Warning Point	Monroe County EOC	Monroe County Warning Point					
Unusual Event	NA	NA	NA	NA	NA	NA	NA	NA					
Alert	0844	0849	0853	0853	0849	0849	0849	0849					
Site Area Emergency	0900	0909	0911	0911	0908	0908	0908	0908					
General Emergency	1111	1122	1111	1113	1123	1123	1121	1121					
Rad. Release Started		0909	0911	NA	1058	1058	1058	1058					
Rad. Release Terminated	NA	NA	NA	NA	NA	NA	NA	NA					
Facility Declared Operational		0944	0943	0934	0937	0937	0938	0849					
Governor Declared State of Emergency		0935	1152	1152	1144	NA	0935	NA					
Exercise Terminated		1335	1339	NA	1333	NA	1332	1332					
Early Precautionary Actions: M1, M shelter in place Close parks, water ways, and recreation areas		0927	NA	NA	0921	NA	0950	NA					
Early Precautionary Actions: Evacuate mobility impaired		NA	NA	NA	0923	NA	1020	NA					

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Emergency Classification Level or Event	Time Utility Declared	Time That Notification Was Received or Action Was Taken											
		NY State EOC	EOF	JIC	Wayne County EOC	Wayne County Warning Point	Monroe County EOC	Monroe County Warning Point					
Early Precautionary Actions: Evacuate schools and issue KI		NA	NA	NA	0931	NA	1035	NA					
Early Precautionary Actions		NA	NA	NA	0930	NA	NA	NA					
<u>1st Protective Action Decision</u> Evacuate: M1, M3, Monroe Lake, schools and all others shelter in place (M2, M3, M4, M5, M6, M7, M8 and M9) W2, Wayne Lake		1139	1131	1131	1139	NA	1139	NA					
Sirens		1150	NA	1150	1150	NA	1150	1150					
EAS		1154	NA	1154	1154	NA	1154	1154					
KI Decision		1134	1131	1154	1139	NA	1139	NA					
<u>2nd Protective Action Decision</u> Evacuate		NA	NA	NA	NA	NA	NA	NA					
Siren Activation		NA	NA	NA	NA	NA	NA	NA					

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Appendix B: Exercise Key Leaders and Evaluators

Regional Assistance Committee (RAC) Chair: Susan O NEILL

Site Specialist: Kevin Malone

Location / Venue	Evaluation Team	AGENCY
Day 2 Post Plume Tabletop Wayne County EOC	Michele Sturman Kerris Bates	FEMA Region II FEMA HQ
Monroe County, NY Reception Center: Rush-Henrietta High School	Kevin Malone	FEMA Region II
Wayne County Warning Point	Christopher Nemcheck	FEMA Region III
Wayne County EOC Broadcast Message Observation OOS	Ameesha Mehta-Sampath	EPA
Monroe County Accident Assessment	Kenneth Wierman jr	FEMA THD HQ
Wayne County Accident Assessment	Robert Walker	ICF
Ginna Emergency Operations Facility	Lisa Rink, Don Daniel	FEMA THD HQ FEMA Region 5
Monroe County FMT A	William McRee	ICF
Wayne County TCP ACP	Kathryn Duran	FEMA Region III
Wayne County Back Up Route Alerting	LaShawn Halsey	FEMA THD HQ
NY State Accident Assessment	Marcy Campbell	ICF
Greece Olympus High School	Michele Sturman, Michael DeBonis	FEMA Region II FEMA Region II
Monre County EOC	Barbara Thomas, Miriam Weston, Helen LaForge, Norman Kalson	FEMA Region I FEMA Region II FEMA Region I FEMA Region IX
NY State EOC	Todd Genskie, Christopher Bellone, Nichlous Buls	FEMA Region V FEMA THD HQ FEMA Region III
Wayne County EOC	Christopher Cammarata, Tina Thomas, Jennifer Greene, Larry Broockerd	FEMA Region I FEMA Region III FEMA Region III FEMA THD HQ
Macedon JIC	Taneeka Hollins Michele Sturman	FEMA Region I FEMA Region III
Wayne County FMT B	Brian Clark	ICF
Wayne County FMT A	Kent Tosch	ICF
Monroe County FMT B	Mike DeBonis	FEMA Region III

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Monroe County TCAP	Lee Torres	FEMA Region III
Monroe County Warning Point	George Hogan iii	FEMA Region II
EAS Station WHAM	Alonzo McSwain	FEMA THD HQ
New York State Watch Center	Nicholus Buls	FEMA Region III
Ontario Volunteer Emergency Squad Wayne County OOS	Kevin Malone	FEMA Region II
Newark Wayne Community Hospital Wayne County OOS	Kevin Malone	FEMA Region II
Rochester General Hospital Monroe County OOS	Mike DeBonis	FEMA Region II
Day Two Team Leader	Brad DeCote	FEMA Region VI

APPENDIX C: Demonstrated Strengths

Ginna EOF

- The New York State (NYS) Engineer representative did a fantastic job asking challenging and pointed questions of the NRC and Operational Assessment group at Exelon. Nothing ran by her desk without a series of pertinent questions for her to have a clear understanding of the escalating situation at the plant before she reported back to the state. I've seen this twice now at NYS REP exercises and it is quite impressive and much appreciated by all involved.
- The EOF Communicator was observed being very capable of keeping the State & County Liaisons informed as well as those assigned to the EOCs.
- The EOF capably managed real-world events one being a severe motor vehicle accident in the EOF operating area, the other was a technical breakdown of the on-line computer system from the sim cell.

Joint Information Center

- The JIC Manager and staff did an excellent job of coordinating with the County and State PIOs to ensure accurate information was provided to the public in a timely manner.

Monroe County EOC

- Excellent coordination between Monroe County EOC, EMS, Shelter and MC Dept of Public Health to maintain updated lists identifying Hearing Impaired and Transportation dependent/mobility impaired individuals within the county. The list also includes the 9 evacuations zones M1-M9 in which the special needs population are grouped. Monroe County distributes a local brochure on a yearly basis to residents which is filled out and mail back to the EOC to be distributed to the above agencies.
- Good leadership abilities – took charge (Emergency Management Director; County Executive)
- Deliberated on the right questions about the response operation; and if there were consequences for actions taken early.
- Leaned forward in response activities.
- Good coordination and collaboration between Command Staff.
- Good dialog between Command Staff to make final decisions.
- The EOC Manager conducted regular, thorough, and accurate briefings to the EOC staff.

- Heavy participation and exercise engagement by other agencies to support the response.
- In response to the Siren failure, the 911 Center would utilize a backup Alert and Notification System called Hyper-Reach. The Hyper-Reach system offers a suite of message managing options to notify the public my phone, text, email, as well as engage the IPAWS system. Users can also Geotarget select areas within the county which experienced siren failure. The system allows for 250 character messages which can be canned or developed as wildcard messages based on the emergency. The system also had predefined areas, and in this case, the operators could use the system to notify only individuals in the Siren #8 area. During the exercise, there were 2 Shift Supervisors on hand from the 911 Center, and both demonstrated a high level of proficiency in understanding the capability of the system.
- There are many messaging systems used by public safety, however it was evident the staff at the Monroe County 911 Center have invested a great amount of time in developing a proficiency using it. Further, creating predefined areas for all the sirens in the entire county EPZ is a noteworthy accomplishment, so this area is an obvious strength.

Monroe County Warning Point

- The City of Rochester Emergency Communications had depth at each position with multiple employees at the supervisor and dispatcher level that demonstrated proficiency at their assigned tasks.

Monroe County Accident Assessment

- The capability to access Ginna Nuclear Power Plant Safety Parameter Display System (SPDS) information and display on a large screen in the Monroe County Accident Assessment Room as well as having Exelon Generation Engineering Staff in the Monroe County Accident Assessment Room enhances accident assessment in the determination of core damage, release pathways and emergency classification explanations.

Monroe County FMT A

- The Monroe County Field Monitoring Team Red (FMT Red) conducted radiation detection equipment operability checks by taking contact readings with known Cs-137 sources in a consistent geometry. The contact readings provide for a reproducible, repeatable measurement to compare to the range of readings to validate equipment operability. Additionally, the team used a Ludlum Model 180-2 Air Sample Holder to ensure a consistent counting geometry for taking filter media measurements. The combination of these efforts provides for optimum air sample data that can be used with confidence when determining iodine air concentrations and resulting child thyroid dose estimates for making protective action decisions for the public.

Wayne County EOC

- The EMD displayed excellent command and control communications with all EOC staff. Keeping everyone on task and focused throughout the entirety of the event. Ensuring all needs were met not only within the command staff, but also would follow up with any outstanding needs with ESF's individually until they were met and taken care of.

Wayne County Backup Route Alerting

- The Wayne County Radiological Officer provided a comprehensive and engaging briefing to the Wayne County Sheriff's Department patrol officer that included an excellent explanation of the proper use of potassium iodide; a just in time update on how to zero his direct-reading dosimeter; and where to and to whom to return the Emergency Worker Exposure Control kit at the conclusion of his assignment. In addition to performing duties as the County Radiological Officer he also filled in during the exercise as the Wayne County Dose Assessment Officer.

Wayne County Warning Point

- Wayne County warning point had a three-part system to ensure no parts were missed. One member received the message and gave it to the shift supervisor who went through the checklist for the notification with the person who received the message along with the warning point supervisor.

Wayne County TCP/ACP

- The Wayne County Sheriff's Department patrol officer was very professional and knowledgeable about his responsibilities while assigned to a Traffic Control Point/Access Control Point and was able to accurately identify the items, and their functions, that were in the Emergency Worker Exposure Control kit he was issued.

Wayne County FMT A & B

- Wayne County Field Monitoring Teams were assisted by Wayne County Radio Amateur Civil Emergency Services (RACES). The RACES equipment provided an additional communication capability, on separate radio frequency, which ensures redundancy in case a communications system problem on the County radio or on the cellular phones.