



Robert E. Ginna Nuclear Power Plant

After Action Report/ Improvement Plan

Exercise Date - October 25, 2011

Radiological Emergency Preparedness (REP) Program



FEMA

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Robert E. Ginna Nuclear Power Plant After Action Report/Improvement Plan

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EXECUTIVE SUMMARY

On October 25, 2011, a full-scale 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 May 05, 2009. 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.

This report contains the final evaluation of the biennial exercise and the evaluation of the following out-of-sequence activities:

Monroe County

July 13, 2011: Rochester General Hospital - Medical Services Hospital

July 13, 2011: Rural Metro - Medical Services Transport

August 24, 2011: Rush Henrietta High School – General Population Reception Center

September 21, 2011: Monroe County Sheriff's Department - Traffic Control Point

September 21, 2011: Webster Police Department - Traffic Control Point

September 22, 2011: Plank Road North Elementary School - School Interview

September 22, 2011: Plank Road South Elementary School - School Interview

September 22, 2011: Schlegel Road Elementary School - School Interview

September 22, 2011: Willink Middle School - School Interview

October 5, 2011: Regional Transit Service - General Population Bus Company

October 5, 2011: Regional Transit Service - Special Population Bus Company

October 5, 2011: Webster Central School District Bus Company - School Bus Company

Wayne County

July 21, 2010: Fairville Fire Department - Medical Services Transport

July 21, 2010: Newark Community Hospital - Medical Services Hospital

September 21, 2011: Freewill Elementary School - School Interview

September 21, 2011: James A. Benway High School - School Interview

September 21, 2011: Marion Volunteer Fire Department - Backup Route Alerting

September 21, 2011: Ontario Elementary School - School Interview

September 21, 2011: Ontario Primary School - School Interview

September 21, 2011: Thomas Armstrong Middle School - School Interview

September 21, 2011: Williamson Elementary School - School Interview

September 21, 2011: Williamson Middle School - School Interview

September 21, 2011: Williamson Senior High School - School Interview

October 4, 2011: Penfield School Busses - School Bus Company

October 4, 2011: Williamson Central School District Bus Company - School Bus Company

October 5, 2011: Wayne Area Transport Service - Special Population Bus Company

October 18, 2011: Newark High School - General Population Reception Center

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 was no Deficiencies identified as a result of this exercise. There were two new Areas Requiring Corrective Action (ARCA's) and two new planning issues identified, one of which has already been corrected. Five prior ARCA's from previous exercise and drills were successfully demonstrated at this exercise. There are no prior issues remaining outstanding.

SECTION 1: EXERCISE OVERVIEW

1.1 Exercise Details

Exercise Name

Robert E. Ginna Nuclear Power Plant

Type of Exercise

Plume

Exercise Date

October 25, 2011

Program

Department of Homeland Security/FEMA Radiological Emergency Preparedness
Program

Scenario Type

Radiological Emergency

1.2 Exercise Planning Team Leadership

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1.3 Participating Organizations

Agencies and organizations of the following jurisdictions participated in the Robert E. Ginna Nuclear Power Plant exercise:

State Jurisdictions

- New York State Child Care Council
- New York State Department of Environment and Conservation
- New York State Department of Health
- New York State Department of Transportation
- New York State Division of Emergency Services and Homeland Security
- New York State Education Department
- New York State Energy Research Development Authority
- New York State Office of Emergency Management
- New York State Office of Fire Prevention and Control
- New York State Office of Temporary Disabilities
- New York State Police
- New York State Public Service Commission
- New York State Warning Point

Risk Jurisdictions

- Monroe County Animal Steering Committee
- Regional Resource Development
- Monroe County Agriculture & Markets
- Monroe County Public Safety Communications
- Monroe County Public Safety Department
- Monroe County Pure Waters
- Monroe County Security
- Monroe County Sheriff's Office
- Monroe County Transportation
- Monroe County Water Authority
- Monroe County Probation
- Monroe County Parks Department
- Monroe County Information Services
- Monroe County Communications
- Monroe County Department of Human Services

Monroe County Emergency Medical Services
Monroe County Environmental Services
Monroe County Executive
Monroe County Farm Bureau
Monroe County Fire Bureau
Monroe County Geographic Information System
Wayne County Humane Society
Wayne County Office of Aging and Youth
Wayne County Office of Emergency Management
Wayne County Sheriff's Department
Wayne County Water & Sewer Authority
Wayne County Highway Department
Wayne County Emergency Communications
Wayne County Department of Social Services
Wayne County Department of Health
Wayne County Civil Air Patrol
Wayne County Chairman of the Board of Supervisors
Wayne County Department of Mental Health
Webster Police Department

Support Jurisdictions

American Red Cross
City of Rochester
City of Rochester Department of Environmental Services
City of Rochester Fire Department
City of Rochester Law Department
City of Rochester Mayor's Office
City of Rochester Police Department
Rush-Henrietta School District
Webster School District

Private Organizations

ESI
Frontier Telephone
Lift Line
PSTF Building Services

R.E. Ginna Nuclear Power Plant
Regional Transit Service
Rochester Gas and Electric
Rural / Metro Medical Services
Xerox Corporation
Federal Jurisdictions
Federal Bureau of Investigation
Federal Emergency Management Institute
US Department of Transportation
US Food and Drug Administration

SECTION 2: EXERCISE DESIGN SUMMARY

2.1 Exercise Purpose and Design

The DHS/FEMA Region II Office evaluated the exercise on October 25, 2011 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 Target Capabilities List (TCL). The capabilities listed below form the foundation for the organization of all FEMA Region II REP Program objectives and observations in this exercise.

- **Emergency Operations Center Management:** Is the capability to provide multi-agency coordination (MAC) for incident management by activating and operating an EOC for a preplanned or no-notice event. EOC management includes EOC activation, notification, staffing, and deactivation; management, direction, control, and coordination of response and recovery activities; coordination of efforts among neighboring governments at each level and among local, regional, state, and federal EOCs; coordination public information and warning; and maintenance of the information and communication necessary for coordinating response and recovery activities.
- **Emergency Public Information and Warning:** Is the capability that includes public information, alert/warning and notification. It involves developing, coordinating, and disseminating information to the public, coordinating officials, and incident management and responders across all jurisdictions and disciplines effectively under all hazard conditions.
- **Citizen Evacuation and Shelter in Place:** Is the capability to prepare for, ensure communication with, and immediately execute the safe and effective sheltering in-place of an at-risk population (and companion animals), and/or the organized and managed evacuation of the at-risk population

(and companion animals) to areas of safe refuge in response to a potentially or actually dangerous environment. In addition, this capability involves the safe reentry of the population where feasible.

- **Emergency Public Safety and Security Response:** Is the capability to reduce the impact and consequences of an incident or major event by securing the affected area, including crime/incident scene preservation issues as appropriate, safely diverting the public from hazards, providing security support to other response operations and properties, and sustaining operations from response through recovery. Public Safety and Security Response requires coordination among officials from law enforcement (LE), fire, and EMS.

- **Hazardous Materials Response and Decontamination:** Is the capability to assess and manage the consequences of a hazardous materials release, either accidental or as part of a terrorist attack. It includes testing and identifying all likely hazardous substances onsite; ensuring that responders have protective clothing and equipment; conducting rescue operations to remove affected victims from the hazardous environment; conducting geographical survey searches of suspected sources or contamination spreads and establishing isolation perimeters; mitigating the effects of hazardous materials, decontaminating on-site victims, responders, and equipment; coordinating off-site decontamination with relevant agencies, and notifying environmental, health, and law enforcement agencies having jurisdiction for the incident to begin implementation of their standard evidence collection and investigation procedures.

- **Mass Care:** Is the capability to provide immediate shelter, feeding centers, basic first aid, bulk distribution of needed items, and related services to persons affected by a large-scale incident, including special needs populations. Special needs populations include individuals with physical or mental disabilities who require medical attention or personal care beyond basic first aid. Other special-needs populations include non-English speaking populations that may need to have information presented in other languages. The mass care capability also provides for pet care/handling through local government and appropriate animal-related organizations. Mass care is usually performed by nongovernmental organizations (NGO), such as the ARC, or by local government-sponsored volunteer efforts, such as Citizen Corps. Special-needs populations are generally the responsibility of local government, with medical needs addressed by the medical community and or its alternate care facilities. State and Federal entities also play a role in public and

environmental health by ensuring safe conditions, safe food, potable water, sanitation, clean air, etc.

- **Triage and Pre-Hospital Treatment:** Is the capability to appropriately dispatch EMS resources; to provide feasible, suitable, and medically acceptable pre-hospital triage and treatment of patients; to provide transport as well as medical care en-route to an appropriate receiving facility; and to track patients to a treatment facility.

Additionally, each capability is linked to several corresponding activities and tasks to provide additional detail. Exercise objectives and Capabilities/REP Criteria selected to be exercise are discussed in the Ginna Extent-of-Play, Rev. 9 October 15, 2011(found in Appendix E).

2.3 Scenario Summary

Scenario Narrative Summary

The Evaluated Exercise begins in the simulator with the operating crew accepting the watch at 08:00. The plant is operating at 100% rated thermal power.

About 08:15 the scenario starts with loss of Offsite power circuit 767 followed by 1 minute later a loss of offsite power circuit 7T. This is due to thunderstorms passing thru the area and lightning strikes causing failures of the offsite circuits. The failures are substantial and will not be quickly repaired. Operators will respond to the event using procedure AP-ELECT.1. This event meets the criteria for a Notification of Unusual Event (NOUE) based on EAL 6.1.1. Operators should classify the event and perform the required notifications.

About 08:47, there is a fire in the Standby Auxiliary Feed Water Pump room. The fire will damage the “D” Standby Auxiliary Feed Water (SAFW) Pump. This event meets the criteria for an ALERT BASED ON EAL 8.2.2. Operators should activate the Ginna Fire Brigade to respond to the event.

About 09:55, operators receive indications of a trip of the running “A” EDG due to a low lube oil pressure alarm. The EDG oil leak is in an area where the oil DOES NOT come in contact with any hot components (no fire). The failure is not quickly repaired. (ALERT EAL 6.1.3 conditions available already in an ALERT). Operators respond to the event using AP-ELECT.1

(Crew will probably go to AP-ELECT 14,16)

About 10:15, Circuit 908 trips. When this occurs, the RG&E ECC contacts the Operating crew and informs them to lower power to 70%. The operators will make plans to lower power rapidly per the operating agreement provided at turnover.

When the crew lowers power, the "A" main feed water pump experiences flow oscillations. This eventually results in a steam generator water level that is lowering and cannot be recovered. At this time the reactor and turbine will be manually tripped.

When the plant is tripped, a feed line break occurs with the feed line isolation valves going closed. The feed line break damages the auxiliary feed water pumps in the intermediate building basement. ("A" AFW, "B" AFW and TDAFW). The "C" standby auxiliary feed water pump does not start as designed. (Bus 14 & 18 are still lost at this time, X-Tie 16->15 will restore some power)

When the turbine generator coasts down, power to Buses 14 & 18 is lost. At this point many plant indications on the plant computer (PPCS) are lost. This includes many radiation monitors. The Heat Sink CSFST turns red due to total feed water flow <200 gpm AND both S/G levels <7% narrow range indications. The operators enter FR-H.1 for the loss of heat sink.

This meets the conditions for a Site Area Emergency.

The "A" S/G ARV is failed and will not open. Therefore, the plant will be cooled by the cycling of the "B" ARV and the "A" S/G Safety Valve will cycle to relieve steam generator pressure.

About 10:50, a steam generator tube rupture occurs on the "A" S/G. The operating crew should recognize the loss of reactor coolant. • New survey team report for boundary radiation levels • Report from guard house that the guard house portal monitors have alarmed should they be concerned. • Dose Assessment should perform calculations based on the survey results.

About 10:57, the "A" Safety Valve will fail open. The operating crew will note a continuous steam sound. The ERO should recognize that "A" S/G pressure is lowering in an uncontrolled manner. This meets the criteria for a General Emergency based on EAL 4.2.2 or EAL 5.2.5. The ERO should inform offsite officials of the General Emergency and the start of a

release to the environment. After the General Emergency has been declared, ECC will inform the operating crew that offsite power circuit 767 has been restored. At this time, many plant computer indications are restored as well as the radiation and effluent monitors.

Power restoration

When power is restored, operations will initiate feed water flow to the intact "B" S/G to reduce RCS temperature and pressure. This will reduce the pressure across the "A" S/G tubes and reduces the release rate to the environment.

The exercise will be terminated after all objectives have been evaluated.

SECTION 3: ANALYSIS OF CAPABILITIES

3.1 Exercise Evaluation and Results

Contained in this section are the results and findings of the evaluation of all jurisdictions and locations that participated in the October 25, 2011 biennial Radiological Emergency Preparedness (REP) exercise. The exercise was held to test the offsite emergency response capabilities of local governments in the 10-mile Emergency Planning Zone (EPZ) surrounding the Robert E. Ginna Nuclear Power Plant. Each jurisdiction and functional entity was evaluated on the basis of its demonstration of the exercise evaluation area criteria contained in the REP Exercise Evaluation Methodology.

3.2 Summary Results of Exercise Evaluation

The matrix presented in Table 3.1 on the following page, presents the status of all exercise evaluation area criteria that were scheduled for demonstration during this exercise by all participating jurisdictions and functional entities. Exercise criteria are listed by number and the demonstration status is indicated by the use of the following letters:

M - Met (No Deficiency or ARCAs assessed and no unresolved ARCAs from prior exercise)

D - Deficiency assessed

A - ARCAs assessed or unresolved ARCAs from previous exercises

P - Plan Issue

N - Not Demonstrated

Table 3.1 - Summary of Exercise Evaluation (4 pages)

<p>DATE: 2011-10-25 SITE: Robert E. Ginna Nuclear Power Plant, NY M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated</p>		NYSEOC	NYS WP	NYSAA	NYS TCP NYSP	G JIC	G EOF	REG EAS WHAM	MC EOC	MC AA	MC WP	MC FMTA	MC FMTB
Emergency Operations Management													
Mobilization	1a1	M	M			M	M		M		M	M	M
Facilities	1b1												
Direction and Control	1c1	M					M		M				
Communications Equipment	1d1	M	M			M	M	M	M		M	M	M
Equipment and Supplies to Support Operations	1e1	M		M		M	M		M	M			
Protective Action Decision Making													
Emergency Worker Exposure Control	2a1			M						M			
Dose Assessment & PARs & PADs for the Emergency Event	2b1			M						M			
Dose Assessment & PARs & PADs for the Emergency Event	2b2	M							M				
PADs for the Protection of persons with disabilities and access/functional needs	2c1	M							M				
Radiological Assessment and Decision-making for the Ingestion Exposure Pathway	2d1												
Radiological Assessment & Decision-making Concerning Post-Plume Phase Relocation, Reentry, and Return	2e1												
Protective Action Implementation													
Implementation of Emergency Worker Exposure Control	3a1				M				M			M	M
Implementation of KI Decision for Institutionalized Individuals	3b1	M			M				M			M	M
Implementation of Protective Actions for persons with disabilities and access/functional needs	3c1	M							M				
Implementation of Protective Actions for persons with disabilities and access/functional needs	3c2								M				
Implementation of Traffic and Access Control	3d1	M			M				M				
Implementation of Traffic and Access Control	3d2								M				
Implementation of Ingestion Pathway Decisions	3e1												
Implementation of Ingestion Pathway Decisions	3e2												
Implementation of Post-Plume Phase Relocation, Reentry, and Return Decisions	3f1												
Field Measurement and Analysis													
Plume Phase Field Measurements and Analyses	4a1											M	A
Plume Phase Field Measurement and Analyses	4a2									M			
Plume Phase Field Measurement and Analyses	4a3											P	M
Post Plume Phase Field Measurements and Sampling	4b1												
Laboratory Operations	4c1												
Emergency Notification and Public Info.													
Activation of the Prompt Alert and Notification System	5a1	M				M		M	M				
RESERVED	5a2												
Activation of the Prompt Alert and Notification System	5a3								M				
Activation of the Prompt Alert and Notification System	5a4												
Emergency Information and Instructions for the Public and the Media	5b1	M				M		M	A				
Support Operations/Facilities													
Monitoring, Decontamination, and Registration of Evacuees	6a1												
Monitoring and Decontamination of Emergency Workers and their Equipment and Vehicles	6b1												

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Temporary Care of Evacuees	6c1														
Transportation and Treatment of Contaminated Injured Individuals	6d1														

Table 3.1 - Summary of Exercise Evaluation (Continued. page 2/4)

DATE: 2011-10-25 SITE: Robert E. Ginna Nuclear Power Plant, NY M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated		MC TCP	MCSD	MC TCP	WPD	MC SBC	WCSD	MC GPRC	RHHS	MC SI	PRNES	MC SI	PRSES	MC SI	SRES	MC GPBC	RTS	MC SPBC	RTS	MC SI	WMS	MC MSH	RGH
Emergency Operations Management																							
Mobilization	1a1																						
Facilities	1b1																						
Direction and Control	1c1																						
Communications Equipment	1d1																						
Equipment and Supplies to Support Operations	1e1																						
Protective Action Decision Making																							
Emergency Worker Exposure Control	2a1																						
Dose Assessment & PARs & PADs for the Emergency Event	2b1																						
Dose Assessment & PARs & PADs for the Emergency Event	2b2																						
PADs for the Protection of persons with disabilities and access/functional needs	2c1																						
Radiological Assessment and Decision-making for the Ingestion Exposure Pathway	2d1																						
Radiological Assessment & Decision-making Concerning Post-Plume Phase Relocation, Reentry, and Return	2e1																						
Protective Action Implementation																							
Implementation of Emergency Worker Exposure Control	3a1	M	M	M	M											M	M					M	
Implementation of KI Decision for Institutionalized Individuals	3b1	M	M	M	M											M	M						
Implementation of Protective Actions for persons with disabilities and access/functional needs	3c1															M	M						
Implementation of Protective Actions for persons with disabilities and access/functional needs	3c2			M				M	M	M	M									M			
Implementation of Traffic and Access Control	3d1	M	M																				
Implementation of Traffic and Access Control	3d2																						
Implementation of Ingestion Pathway Decisions	3e1																						
Implementation of Ingestion Pathway Decisions	3e2																						
Implementation of Post-Plume Phase Relocation, Reentry, and Return Decisions	3f1																						
Field Measurement and Analysis																							
Plume Phase Field Measurement and Analyses	4a1																						
Plume Phase Field Measurement and Analyses	4a2																						
Plume Phase Field Measurement and Analyses	4a3																						
Post Plume Phase Field Measurements and Sampling	4b1																						
Laboratory Operations	4c1																						
Emergency Notification and Public Info																							
Activation of the Prompt Alert and Notification System	5a1																						
RESERVED	5a2																						
Activation of the Prompt Alert and Notification System	5a3																						
Activation of the Prompt Alert and Notification System	5a4																						
Emergency Information and Instructions for the Public and the Media	5b1																						
Support Operations/Facilities																							
Monitoring, Decontamination, and Registration of Evacuees	6a1							M															
Monitoring and Decontamination of Emergency Workers and their Equipment and Vehicles	6b1																						

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Radiological Emergency Preparedness Program (REP)

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Temporary Care of Evacuees	6c1												
Transportation and Treatment of Contaminated Injured Individuals	6d1												M

Table 3.1 - Summary of Exercise Evaluation (Continued. page 3/4)

<p align="center">DATE: 2011-10-25 SITE: Robert E. Ginna Nuclear Power Plant, NY M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated</p>		MC	MST	RM	Wayne	EOC	Wayne	AA	Wayne	WP	Wayne	FMT	A	Wayne	FMT	B	Wayne	MSH	NCH	WC	MST	FFD	Wayne	BRA	Wayne	SPBC	WATS	Wayne	SI	FES
Emergency Operations Management																														
Mobilization	1a1				M				M	M	M																			
Facilities	1b1				M																									
Direction and Control	1c1				M																									
Communications Equipment	1d1				M				M	M	M																			
Equipment and Supplies to Support Operations	1e1				M		M																							
Protective Action Decision Making																														
Emergency Worker Exposure Control	2a1							M																						
Dose Assessment & PARs & PADs for the Emergency Event	2b1							M																						
Dose Assessment & PARs & PADs for the Emergency Event	2b2				M																									
PADs for the Protection of persons with disabilities and access/functional needs	2c1				M																									
Radiological Assessment and Decision-making for the Ingestion Exposure Pathway	2d1																													
Radiological Assessment & Decision-making Concerning Post-Plume Phase Relocation, Reentry, and Return	2e1																													
Protective Action Implementation																														
Implementation of Emergency Worker Exposure Control	3a1	M	M						M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Implementation of KI Decision for Institutionalized Individuals	3b1	M	M						M	M				M	M					M	M	M	M	M	M	M	M	M	M	M
Implementation of Protective Actions for persons with disabilities and access/functional needs	3c1			M																						M				
Implementation of Protective Actions for persons with disabilities and access/functional needs	3c2			M																								M		
Implementation of Traffic and Access Control	3d1																													
Implementation of Traffic and Access Control	3d2			M																										
Implementation of Ingestion Pathway Decisions	3e1																													
Implementation of Ingestion Pathway Decisions	3e2																													
Implementation of Post-Plume Phase Relocation, Reentry, and Return Decisions	3f1																													
Field Measurement and Analysis																														
Plume Phase Field Measurements and Analyses	4a1											M	M																	
Plume Phase Field Measurement and Analyses	4a2						M																							
Plume Phase Field Measurement and Analyses	4a3									M	M																			
Post Plume Phase Field Measurements and Sampling	4b1																													
Laboratory Operations	4c1																													
Emergency Notification and Public Info																														
Activation of the Prompt Alert and Notification System	5a1			M																										
RESERVED	5a2																													
Activation of the Prompt Alert and Notification System	5a3			M																				M						
Activation of the Prompt Alert and Notification System	5a4																													
Emergency Information and Instructions for the Public and the Media	5b1			M																										
Support Operations/Facilities																														
Monitoring, Decontamination, and Registration of Evacuees	6a1																													

Unclassified
Radiological Emergency Preparedness Program (REP)

After Action Report/Improvement Plan

Robert E. Ginna Nuclear Power Plant

Monitoring and Decontamination of Emergency Workers and their Equipment and Vehicles	6b1												
Temporary Care of Evacuees	6c1												
Transportation and Treatment of Contaminated Injured Individuals	6d1	M							M	M			

Table 3.1 - Summary of Exercise Evaluation (Continued. page 4/4)

<p align="center">DATE: 2011-10-25 SITE: Robert E. Ginna Nuclear Power Plant, NY M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated</p>		Wayne GPRC NHS	Wayne SI OES	Wayne SI OPS	Wayne SI TAMS	Wayne SI JABHS	Wayne SI WES	Wayne SI WMS	Wayne SI WSHS	Wayne SBC PSB	Wayne TCP WCSD	Wayne SBC WilliamsonCSD
Emergency Operations Management												
Mobilization	1a1											
Facilities	1b1											
Direction and Control	1c1											
Communications Equipment	1d1											
Equipment and Supplies to Support Operations	1e1											
Protective Action Decision Making												
Emergency Worker Exposure Control	2a1											
Dose Assessment & PARs & PADs for the Emergency Event	2b1											
Dose Assessment & PARs & PADs for the Emergency Event	2b2											
PADs for the Protection of persons with disabilities and access/functional needs	2c1											
Radiological Assessment and Decision-making for the Ingestion Exposure Pathway	2d1											
Radiological Assessment & Decision-making Concerning Post-Plume Phase Relocation, Reentry, and Return	2e1											
Protective Action Implementation												
Implementation of Emergency Worker Exposure Control	3a1	M								M	M	M
Implementation of KI Decision for Institutionalized Individuals	3b1	M								M	M	M
Implementation of Protective Actions for persons with disabilities and access/functional needs	3c1											
Implementation of Protective Actions for persons with disabilities and access/functional needs	3c2		M	M	M	M	M	M	M	M		M
Implementation of Traffic and Access Control	3d1										M	
Implementation of Traffic and Access Control	3d2											
Implementation of Ingestion Pathway Decisions	3e1											
Implementation of Ingestion Pathway Decisions	3e2											
Implementation of Post-Plume Phase Relocation, Reentry, and Return Decisions	3f1											
Field Measurement and Analysis												
Plume Phase Field Measurements and Analyses	4a1											
Plume Phase Field Measurement and Analyses	4a2											
Plume Phase Field Measurement and Analyses	4a3											
Post Plume Phase Field Measurements and Sampling	4b1											
Laboratory Operations	4c1											
Emergency Notification and Public Info												
Activation of the Prompt Alert and Notification System	5a1											
RESERVED	5a2											
Activation of the Prompt Alert and Notification System	5a3											
Activation of the Prompt Alert and Notification System	5a4											
Emergency Information and Instructions for the Public and the Media	5b1											
Support Operations/Facilities												

Unclassified
Radiological Emergency Preparedness Program (REP)

After Action Report/Improvement Plan

Robert E. Ginna Nuclear Power Plant

Monitoring, Decontamination, and Registration of Evacuees	6a1	M																	
Monitoring and Decontamination of Emergency Workers and their Equipment and Vehicles	6b1																		
Temporary Care of Evacuees	6c1																		
Transportation and Treatment of Contaminated Injured Individuals	6d1																		

3.3 Criteria Evaluation Summaries

3.3.1 New York Jurisdictions

3.3.1.1 New York State Emergency Operations Center

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.b.2, 2.c.1, 3.b.1, 3.c.1, 3.d.1, 5.a.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: 5.b.1.

ISSUE NO.: 24-11-5b1-A-03

ISSUE: Public Information was inconsistent on the second day of exercise play. The talking points for the Director of the Department of Health for the press conference that was to take place at 1400 stated that ERPA 3 remained evacuated, and also that those in ERPA 3 can return to their homes.

Also, Press Release #1 (1600) stated that the general agricultural embargo area had been reduced from the original 50-mile radius, and food in this reduced area should not be harvested or eaten. In a subsequent paragraph, it stated that food should not be consumed within a 50-mile radius of the affected area. Both statements referred to an attached map, which only displayed the reduced embargo area.

CORRECTIVE ACTION DEMONSTRATED: The NYS EOC was able to demonstrate the correction of this issue during the Plume Phase Exercise.

All press releases were timely and accurate. Therefore Prior ARCA 24-11-5b1 - A-03 is resolved.

- g. PRIOR ISSUES - UNRESOLVED: None

3.3.1.2 New York State Warning Point

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.1.3 New York State Accident Assessment

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.e.1, 2.a.1, 2.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.1.4 New York State - Traffic Control Point - New York State Police

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.a.1, 3.b.1, 3.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.1.5 Ginna Joint Information Center

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.d.1, 1.e.1, 5.a.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.1.6 R.E. Ginna Emergency Alert System - WHAM

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.d.1, 5.a.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2 Risk Jurisdictions

3.3.2.1 Ginna Emergency Operations Facility

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.2 Monroe County Emergency Operations Center

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.b.2, 2.c.1, 3.a.1, 3.b.1, 3.c.1, 3.c.2, 3.d.1, 3.d.2, 5.a.1, 5.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: 5.b.1.

ISSUE NO.: 27-11-5b1-A-02

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

CONDITION: Monroe County News Release #4 contained the incorrect Emergency Classification Level (ECL) of Site Area Emergency, when the correct ECL was General Emergency. In the beginning paragraph of the news release the correct ECL of General Emergency is listed, but in the second paragraph it incorrectly states to "advise workers of the Site Area Emergency".

POSSIBLE CAUSE: Not thoroughly reading through the news release and checking for accuracy.

REFERENCE: E.5,7; G.3.a; G.4.c

EFFECT: This could lead to confusion on what the correct ECL is and what actions need to be taken, especially by Emergency Workers and the general public who may need to ingest KI at the General Emergency ECL.

RECOMMENDATION: Staff needs to be trained in checking news releases for accuracy.

- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None

-
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.3 Monroe County Accident Assessment

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.e.1, 2.a.1, 2.b.1, 4.a.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: 2.a.1.

ISSUE NO.: 27-07-2a1-P-1

ISSUE: The Monroe County Radiological Emergency Preparedness Plan in Part 1 Section C.5.b (page 1-c-7) states that it is the responsibility of the Monroe County Radiological Officer and the County Director of Health to instruct emergency workers to read their direct reading dosimeters at 15 - 30 minute intervals and to report readings of 0.5 R, 1 R, and 3 R to their respective supervisors. The plan indicates that if a reading approaches 5 rem TEDE, the workers should leave the area and report to his/her emergency worker decontamination facility.

Since the dosimeters available only indicate external exposure, the worker can not determine when 5 rem TEDE is indicated due to the potential contribution from internal exposure. Also, the term "approaches" is ill defined. Any readings over 3 R are approaching 5 R. How close does the reading have to be before a worker leaves his/her post?

CORRECTIVE ACTION DEMONSTRATED: The Plan, Part 1, Section C, Revised 7/15/2011 page 14, retains the language that an emergency worker should leave the area if their dosimeter approaches 5.0 rem TEDE. Since the emergency worker is not able to determining his/her dose in rem TEDE as required by the plan, this issue remains open.

As of 10/15/2012 the Monroe County Plan, Part 1 Section C has been updated to clarify how emergency worker exposures are controlled to comply with the 5 REM

TEDE limit and is consistent with the language in Procedure K of the Monroe County Plan. Therefore Planning Issue 27-07-2.a.1-P has been corrected.

- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.4 Monroe County Warning Point

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.5 Monroe County Field Monitoring Team A

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.d.1, 3.a.1, 3.b.1, 4.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: 4.a.3.

ISSUE NO.: 27-11-4a3-P-01

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

CONDITION: Monroe County's Field Monitoring Teams (FMT) are expected to locate the plume centerline and to determine that they are in the plume when an air sample is taken. FMT procedures correctly instruct field teams to traverse the plume and to locate the plume centerline to take an air sample. Open and closed window

readings are taken at 3 feet and 3 inches to detect the presence of beta near the ground in order to verify that the plume is near ground level in order to obtain a representative air sample. This was all performed correctly by Field Monitoring Team A, but they did not know the reason for the 3 foot and 3 inch readings.

POSSIBLE CAUSE: Procedure K, Radiological Officer, Attachment 4A, Field Monitoring Team Procedures, Revised 7/15/11, does not explain why these readings are taken.

REFERENCE: Nureg 0654, I.9; Procedure K, Radiological Officer, Attachment 4A, Field Monitoring Team Procedures, Revised 7/15/11.

EFFECT: With the team not knowing if they had taken a representative air sample, a sample could be obtained that would be of little use to the Monroe County dose assessment group, who use field team data to characterize the plume and validate their calculations.

RECOMMENDATION: Add a statement to Attachment 4A of the Monroe County Radiological Emergency Preparedness Plan explaining that the purpose of the 3 inch and 3 foot readings is to verify the presence of beta in order to verify that the plume is near ground level in order to obtain a representative air sample. Make this a training topic in future Field Monitoring Team training courses.

- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: 4.a.1.

ISSUE NO.: 27-09-4a1-P-01

ISSUE: Throughout the exercise, the Monroe County Field Monitoring Team FMT-A and Dose Assessment in the Monroe County Emergency Operations Center (MC EOC) used a map that identified the locations of survey points, sirens, area thermoluminescent dosimeters, and the pre-designated routes for plume traversals. Although not used by the field monitoring team, Table 1 (Pre-Designated Survey Team Sample Points) in Procedure K (Radiological Officer) of the Monroe County Radiological Emergency Response Plan also listed sampling points (locations) and

the associated road intersections.

FMT-A was directed by the MC EOC to monitor and sample at seven points (locations). Of the seven, only two were identically described on the map and the table. Two intersections had different labels depending on whether the map or table was used. The following is a comparison of the map sample points referred to during the exercise as compared to the labels/descriptions in the table.

MAP LABEL TABLE

3W not in table

4WSW same label and intersection description

4SW-1 intersection labeled as 5SW-1 in table

5SW-2 same label and intersection description

5WSW-1 essentially the same label (5WSW), but "Woodard" is spelled "Wooded"

5WSW-2 intersection labeled as 6WSW in table

6SW-1 no such intersection ("Orchard and Salt") is found in the table but an intersection with the same label is described as "Michaeldean Drive and Salt Road"

In addition to the seven points (locations) FMT-A surveyed and monitored during the exercise, a quick review of some of the mapped and tabulated locations indicated there were other inaccuracies. Some of the intersection descriptions in the table were incorrect (wrong road name), and, more importantly, some labels (e.g., 8WSW-1, 9WSW-1, 10 SW-2) were used both on the map and in the table but described entirely different locations.

CORRECTIVE ACTION DEMONSTRATED: Based on a review of the Monroe County Radiological Emergency Response Plan, Procedure K (Radiological Officer), Table 1, revised 7/15/11 and a comparison of Table 1 with the map, which was last revised on 3/06/09, all of the identified discrepancies have been corrected.

g. **PRIOR ISSUES - UNRESOLVED:** None

3.3.2.6 Monroe County Field Monitoring Team B

In summary, the status of DHS/FEMA criteria for this location is as follows:

MET: 1.a.1, 1.d.1, 3.a.1, 3.b.1, 4.a.3.

AREAS REQUIRING CORRECTIVE ACTION: 4.a.1.

ISSUE NO.: 27-11-4a1-A-03

CRITERION: The field teams are equipped to perform field measurements of direct radiation exposure (cloud and ground shine) and to sample airborne radioiodine and particulates.

CONDITION: During the QC check of the Redeco Air Sampler (H-810DC) at the Monroe County EOC, FMT-B did not install the preloaded filter and silver zeolite cartridge on the air sampler to perform a Preliminary Flow Check as specified in their operating procedure. When asked about what was the flow rate on the air sampler during the QC check, FMT-B replied that the flow rate was outside the QC flow range of 0.5 – 2.2 cubic feet per minute (cfm). FMT-B further added that the purpose of the QC check was to make sure that the air sampler was operating, the battery for the air sampler was charged, and that they expected the flow rate to be within range when they installed the preloaded cartridge on the air sampler out in the field. The procedure specifies that the cartridge and filter should be loaded while at the EOC to perform a Preliminary Flow Check. The procedure further states “if the flow rate is above 2.2 cfm, use another pre-loaded cartridge/filter assembly and recheck flow rate; if this does not reduce flow rate to acceptable range, the battery voltage may be set to 12 volts – resulting in lower flow rate and longer sample time”. These instructions were not followed by the field team during the air sampler QC check. When the field team mobilized to the centerline of the plume and started their air sampling, the air sampler flow rate was 2.4 cfm which was outside the upper bound of the acceptable flow range. FMT-B stated that they don’t have the ability to control the flow rate. At the second air sampling location, the air sampler flow rate went up to 2.9 cfm and FMT-B proceeded with the air sample collection.

POSSIBLE CAUSE: FMT-B did not follow the steps specified in the operating procedure for the Air Sampler.

REFERENCE: NUREG-0654 H.10, I.7, I.8, and I.9; Monroe County Radiological Emergency Preparedness Plan revised 7-15-2011, Procedure K (Radiological Officer), Pages K-43 and K-44.

EFFECT: Not properly loading and installing a filter cartridge during an air sample flow check can result in improper air sampling. Should the flow rate be as high as 10 cfm, the iodine would not be collected on the zeolite cartridge.

RECOMMENDATION: Field team members should become more familiar with the operating procedure and should be trained on how to troubleshoot any technical problems that may arise and to be aware of the adverse impacts on the field data if instrument QC checks fall outside the range.

- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.7 Monroe County - Traffic Control Point - Monroe County Sheriff's Department

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.a.1, 3.b.1, 3.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.8 Monroe County - Traffic Control Point - Webster Police Department

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.a.1, 3.b.1, 3.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.9 Monroe County - School Bus Company - Webster Central School District

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.a.1, 3.b.1, 3.c.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.10 Monroe Country - General Population Reception Center - Rush Henrietta High School

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.a.1, 3.b.1, 6.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.11 Monroe County - School Interview - Plank Road North Elementary School

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.c.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.12 Monroe County - School Interview - Plank Road South Elementary School

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.c.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.13 Monroe County - School Interview - Schlegel Road Elementary School

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.c.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.14 Monroe County - General Population Bus Company - Regional Transit Service

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.a.1, 3.b.1, 3.c.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.15 Monroe County - Special Population Bus Company - Regional Transit Service

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.a.1, 3.b.1, 3.c.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.16 Monroe County - School Interview - Willink Middle School

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.c.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.17 Monroe County - Medical Services Hospital - Rochester General Hospital

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.a.1, 6.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.18 Monroe County - Medical Services Transport - Rural Metro

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.a.1, 3.b.1, 6.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.19 Wayne County Emergency Operations Center

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.b.1, 1.c.1, 1.d.1, 1.e.1, 2.b.2, 2.c.1, 3.a.1, 3.b.1, 3.c.1, 3.c.2, 3.d.2, 5.a.1, 5.a.3, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.20 Wayne County Accident Assessment

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.e.1, 2.a.1, 2.b.1, 4.a.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.21 Wayne County Warning Point

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.22 Wayne County Field Monitoring Team Red

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.d.1, 3.a.1, 3.b.1, 4.a.1, 4.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: 4.a.1.

ISSUE NO.: 27-09-4a1-A-02

ISSUE: Operational checks were performed on the Eberline instruments by the Wayne County Field Monitoring Team (WCFMT) using one unlabeled check source

maintained at the Wayne County Emergency Operations Center (WCEOC). The field team member performing the operational checks did not know the material or activity of the check source. Procedure 12 – Field Monitoring, Rev. 15 – 2/01/09, which was included in the team’s kit, specifies a one microcurie Cs-137 source for the Eberline E-140N and an eight microcurie Cs-137 source for the Eberline RO20.

CORRECTIVE ACTION DEMONSTRATED: Field Monitoring Team survey instruments were source checked with appropriately labeled sources. The Eberline RO-20 ionization chamber responded to an 8 microcurie Cesium-137 (Cs-137) radioactive source within the 0.5 to 1.5 mR/hr range specified by procedure. The Ludlum Model 3 survey meter responded to a 1 microcurie Cs-137 source within the 500-2000 counts per minute range specified by procedure. Both radioactive check sources were appropriately labeled with their source activity (1 and 8 microcurie Cs-137). Performance of instrument source checks to a 1 and 8 microcurie Cs-137 source, as specified by Wayne County Radiological Emergency Response Plan, Procedure 12, Field Monitoring Teams, resolves prior issue 27-09-4a1-A-02.

- g. **PRIOR ISSUES - UNRESOLVED:** None

3.3.2.23 Wayne County Field Monitoring Team Blue

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.d.1, 3.a.1, 3.b.1, 4.a.1, 4.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.24 Wayne County - Medical Services Hospital - Newark Community Hospital

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.a.1, 6.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None

- c. DEFICIENCY: None
- d. PLAN ISSUES: 3.a.1.

ISSUE NO.: 27-11-3a1-P-02

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

CONDITION: The Newark-Wayne Community Hospital staff demonstrated emergency worker exposure control on July 21, 2010 during a medical service drill. Emergency workers were issued an Arrow Tech 883, 0-500 mR Direct Reading Dosimeter (DRD) dosimeter and a Dosimeter of Legal Record (DLR). Emergency workers at the hospital are not able to determine if their exposure limits have been reached by looking at the provided dosimeter.

POSSIBLE CAUSE: The 2009 Newark-Wayne Community Hospital Radiological/Nuclear Agent Response Plan (Annex 22) doesn't clearly specify the type of dosimeters issued to emergency workers and their exposure limits. The hospital didn't have in inventory, dosimeters capable of detecting the Wayne County Emergency Worker reporting limits of 1R, 3R and 5R. Newark-Wayne Community Hospital Procedures didn't address what to do if dosimeter reached the 500 mR limit.

REFERENCE: NUREG-0654, K.3.a, b; Wayne County Radiological Emergency Response Plan;
Newark-Wayne Community Hospital Radiological/Nuclear Agent Response Plan (Annex 22).

EFFECT: Accurate exposure may not be able to be calculated with given dosimeters. The hospital plan does not adequately address how to monitor emergency worker exposure levels up through the reportable levels. If exposure is received, staff would have to re-zero or re-issue dosimeters and perform calculations to determine

exposures above 500 mR. This is not discussed in the plan.

CORRECTIVE ACTION DEMONSTRATED: Revisions were made to the Decontamination and Treatment of the Radioactively Contaminated Patient at Newark-Wayne Community Hospital Procedures (Revised October 2011) to clearly specify reportable exposure limits. In addition, Dosimeters were located in a locked room designated as the Emergency Preparedness Supply room. The Hospital Emergency Preparedness Coordinator controls access to the room. The Facility Security Dept also has access to the room. Inside the room was a locked red transportable cart containing the newly added 0-5 R dosimeters. There were 10 - 0-5 R Gamma Xray direct reading dosimeters. One dosimeter serial number 3020990 was examined by the evaluator and due for calibration 12/13/2011. There were also 12 Arrow Tech dosimeters, 0-200 R. One dosimeter serial number 4120680 was examined by the evaluator and due for calibration 2/8/2012, and 12 TLDs. In addition the cart contained Emergency Worker Control Cards instructions, and necklaces for wearing dosimetry.

- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.25 Wayne County - Medical Services Transport - Fairville Fire Department

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.a.1, 3.b.1, 6.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.26 Wayne County - Backup Route Alerting

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.a.1, 3.b.1, 5.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.27 Wayne County - Special Population Bus Company - Wayne Area Transport Service

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.a.1, 3.b.1, 3.c.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.28 Wayne County - School Interview - Freewill Elementary School

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.c.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.29 Wayne County - General Population Reception Center - Newark High School

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.a.1, 3.b.1, 6.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: 6.a.1.

ISSUE NO.: 27-09-6a1-A-03

ISSUE: At the Newark High School in Wayne County where the general population reception center is established, 20% of the 9492 anticipated evacuees, or 1898 people, could not be processed in a 12 hour period. The one SAIC portal processed 6 persons in 4 minutes, which works out to 90 in an hour, and 1080 in 12 hours. Therefore, the monitoring equipment supply at this facility fell short by 818 evacuees.

CORRECTIVE ACTION DEMONSTRATED: This Reception Center services Emergency Planning Areas; W-3, W-4, W-5 and W-6 with a total estimated population of 9,624 persons. Twenty percent of the expected population is 1,993, in twelve hours the facility is required to monitor these individuals, or 166 persons per-hour. Emergency Workers knew the procedures to set up the reception center, focusing on contamination control and their duties at workstations. Personnel Monitors using two Portal Monitors (Model 52-1-1) at the Reception Center entrance conducted six consecutive individual radiological monitoring demonstrations. It took the Emergency Workers one minute and ten seconds to complete the monitoring of these individuals. Therefore the monitoring point would be able to monitor 308 persons each hour.

- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.30 Wayne County - School Interview - Ontario Elementary School

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.c.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.31 Wayne County - School Interview - Ontario Primary School

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.c.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.32 Wayne County - School Interview - Thomas Armstrong Middle School

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.c.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.33 Wayne County - School Interview - James A. Benway High School

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.c.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.34 Wayne County - School Interview - Williamson Elementary School

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.c.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.35 Wayne County - School Interview - Williamson Middle School

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.c.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.36 Wayne County - School Interview - Williamson Senior High School

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.c.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.37 Wayne County - School Bus Company - Penfield School Busses

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.a.1, 3.b.1, 3.c.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.38 Wayne County - Traffic Control Point - Wayne County Sheriff's Department

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.a.1, 3.b.1, 3.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.39 Wayne County - School Bus Company - Williamson Central School District

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 3.a.1, 3.b.1, 3.c.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

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.

APPENDIX A: IMPROVEMENT PLAN

Issue Number: 27-11-5b1-A-02		Criterion: 5b1	
ISSUE: Monroe County News Release #4 contained the incorrect Emergency Classification Level (ECL) of Site Area Emergency, when the correct ECL was General Emergency. In the beginning paragraph of the news release the correct ECL of General Emergency is listed, but in the second paragraph it incorrectly states to "advise workers of the Site Area Emergency".			
RECOMMENDATION: Staff needs to be trained in checking news releases for accuracy.			
CORRECTIVE ACTION DESCRIPTION:			
CAPABILITY:		PRIMARY RESPONSIBLE AGENCY:	
CAPABILITY ELEMENT:		START DATE:	
AGENCY POC:		ESTIMATED COMPLETION DATE:	

Issue Number: 27-11-4a3-P-01		Criterion: 4a3	
ISSUE: Monroe County's Field Monitoring Teams (FMT) are expected to locate the plume centerline and to determine that they are in the plume when an air sample is taken. FMT procedures correctly instruct field teams to traverse the plume and to locate the plume centerline to take an air sample. Open and closed window readings are taken at 3 feet and 3 inches to detect the presence of beta near the ground in order to verify that the plume is near ground level in order to obtain a representative air sample. This was all performed correctly by Field Monitoring Team A, but they did not know the reason for the 3 foot and 3 inch readings.			
RECOMMENDATION: Add a statement to Attachment 4A of the Monroe County Radiological Emergency Preparedness Plan explaining that the purpose of the 3 inch and 3 foot readings is to verify the presence of beta in order to verify that the plume is near ground level in order to obtain a representative air sample. Make this a training topic in future Field Monitoring Team training courses.			
CORRECTIVE ACTION DESCRIPTION:			
CAPABILITY:		PRIMARY RESPONSIBLE AGENCY:	
CAPABILITY ELEMENT:		START DATE:	
AGENCY POC:		ESTIMATED COMPLETION DATE:	

Issue Number: 27-11-4a1-A-03		Criterion: 4a1	
<p>ISSUE: During the QC check of the Redeco Air Sampler (H-810DC) at the Monroe County EOC, FMT-B did not install the preloaded filter and silver zeolite cartridge on the air sampler to perform a Preliminary Flow Check as specified in their operating procedure. When asked about what was the flow rate on the air sampler during the QC check, FMT-B replied that the flow rate was outside the QC flow range of 0.5 – 2.2 cubic feet per minute (cfm). FMT-B further added that the purpose of the QC check was to make sure that the air sampler was operating, the battery for the air sampler was charged, and that they expected the flow rate to be within range when they installed the preloaded cartridge on the air sampler out in the field. The procedure specifies that the cartridge and filter should be loaded while at the EOC to perform a Preliminary Flow Check. The procedure further states “if the flow rate is above 2.2 cfm, use another pre-loaded cartridge/filter assembly and recheck flow rate; if this does not reduce flow rate to acceptable range, the battery voltage may be set to 12 volts – resulting in lower flow rate and longer sample time”. These instructions were not followed by the field team during the air sampler QC check.</p> <p>When the field team mobilized to the centerline of the plume and started their air sampling, the air sampler flow rate was 2.4 cfm which was outside the upper bound of the acceptable flow range. FMT-B stated that they don’t have the ability to control the flow rate. At the second air sampling location, the air sampler flow rate went up to 2.9 cfm and FMT-B proceeded with the air sample collection.</p>			
<p>RECOMMENDATION: Field team members should become more familiar with the operating procedure and should be trained on how to troubleshoot any technical problems that may arise and to be aware of the adverse impacts on the field date if instrument QC checks fall outside the range.</p>			
<p>CORRECTIVE ACTION DESCRIPTION:</p>			
CAPABILITY:		PRIMARY RESPONSIBLE AGENCY:	
CAPABILITY ELEMENT:		START DATE:	
AGENCY POC:		ESTIMATED COMPLETION DATE:	

APPENDIX B: EXERCISE TIMELINE

Table 1 - Exercise Timeline
DATE: 2011-10-25, SITE: Robert E. Ginna Nuclear Power Plant, NY

Emergency Classification Level or Event	Time Utility Declared	NYSEOC	G JIC	G EOF	REG EAS WHAM	MC EOC	MC WP
Unusual Event	0821	0838	N/A	N/A	N/A	0834	0837
Alert	0851	0901	0901	0901	N/A	0901	0858
Site Area Emergency	1033	1045	1033	1033	1109	1045	N/A
General Emergency	1057	1109	1059	1057	1131	1109	N/A
Simulated Rad. Release Started	1108	1107	1108	1108	N/A	1109	N/A
Simulated Rad. Release Terminated	1226	1227	1226	1226	N/A	1226	N/A
Facility Declared Operational		0945	0954	0941	N/A	0938	N/A
Governor Declared State of Emergency		1105	1230	N/A	N/A	1233	N/A
Exercise Terminated		1320	1320	1319	1320	1340	N/A
Early Precautionary Actions: Lake Clearing and School Evacuation		1052	0945	1024	N/A	0910	N/A
"Heads Up" Siren Activation		1103	1103	1103	N/A	1103	N/A
"Heads Up" EAS Message		1107	1112	1107	N/A	1108	N/A
1st Protective Action Decision: Evacuate W1, W2, M1		1120	1122	1125	1120	1120	N/A
1st Siren Activation		1131	1130	1131	1131	1131	N/A
1st EAS Message		1135	1135	1135	1135	1135	N/A
KI Administration Decision:		1109	N/A	1125	N/A	1120	N/A

Table 1 - Exercise Timeline
DATE: 2011-10-25, SITE: Robert E. Ginna Nuclear
Power Plant, NY

Emergency Classification Level or Event	Time Utility Declared	Wayne EOC	Wayne WP
Unusual Event	0821	0837	0841
Alert	0851	0901	0858
Site Area Emergency	1033	1043	N/A
General Emergency	1057	1109	N/A
Simulated Rad. Release Started	1108	1109	N/A
Simulated Rad. Release Terminated	1226	1227	N/A
Facility Declared Operational		0940	N/A
Governor Declared State of Emergency		1105	N/A
Exercise Terminated		1331	N/A
Early Precautionary Actions: Lake Clearing and School Evacuation		0946/1019	N/A
"Heads Up" Siren Activation		1103	N/A
"Heads Up" EAS Message		1107	N/A
1st Protective Action Decision: Evacuate W1, W2, M1		1120	N/A
1st Siren Activation		1131	N/A
1st EAS Message		1135	N/A
KI Administration Decision:		1138	N/A

APPENDIX C: EXERCISE EVALUATORS AND TEAM LEADERS

DATE: 2011-10-25, SITE: Robert E. Ginna Nuclear Power Plant, NY

LOCATION	EVALUATOR	AGENCY
New York State Emergency Operations Center	Janet Hlavaty-LaPosa Patricia Mason *Kevin Reed	FEMA RX FEMA RII FEMA RII
New York State Warning Point	Janet Hlavaty-LaPosa	FEMA RX
New York State Accident Assessment	John Wills	ICFI
New York State - Traffic Control Point - New York State Police	Miriam Weston	FEMA RII
Ginna Joint Information Center	Sara Gelves *Samuel Nelson	FEMA ICFI
R.E. Ginna Emergency Alert System - WHAM	*Russell Fox	FEMA
Ginna Emergency Operations Facility	*Richard Echavarria	FEMA RIX
Monroe County Emergency Operations Center	*Chris Cammarata Rebecca Fontenot Brian Hasemann Helen LaForge Terry Sheehan	FEMA RII FEMA HQ FEMA RII FEMA RI DOT
Monroe County Accident Assessment	Daryl Thome	ICFI
Monroe County Warning Point	Helen LaForge	FEMA RI
Monroe County Field Monitoring Team A	Korkean Dulgerian	FEMA RII
Monroe County Field Monitoring Team B	Nidal Azzam	EPA
Monroe County - Traffic Control Point - Monroe County Sheriff's Department	Kevin Reed	FEMA RII
Monroe County - Traffic Control Point - Webster Police Department	Kevin Reed	FEMA RII
Monroe County - School Bus Company - Webster Central School District	William Cullen Miriam Weston	FEMA R II FEMA RII
Monroe County - General Population Reception Center - Rush Henrietta High School	Korkean Dulgerian	FEMA RII
Monroe County - School Interview - Plank Road North Elementary School	Kevin Reed	FEMA RII
Monroe County - School Interview - Plank Road South Elementary School	Kevin Reed	FEMA RII
Monroe County - School Interview - Schlegel Road Elementary School	Kevin Reed	FEMA RII
Monroe County - General Population Bus Company - Regional Transit Service	William Cullen Miriam Weston	FEMA R II FEMA RII
Monroe County - Special Population Bus Company - Regional Transit Service	William Cullen Miriam Weston	FEMA R II FEMA RII
Monroe County - School Interview - Willink Middle School	Kevin Reed	FEMA RII
Monroe County - Medical Services Hospital - Rochester General Hospital	Kevin Reed	FEMA RII
Monroe County - Medical Services Transport - Rural Metro	Patricia Mason	FEMA RII
Wayne County Emergency Operations Center	Gary Bolender *William Cullen Laura Forrest Patricia Mason Mabel Santiago	ICFI FEMA R II FEMA RII FEMA RII FEMA
Wayne County Accident Assessment	*Joseph Keller	ICFI
Wayne County Warning Point	Miriam Weston	FEMA RII
Wayne County Field Monitoring Team Red	Marcy Campbell	ICFI
Wayne County Field Monitoring Team Blue	Ronald Biernacki	ICFI

Unclassified
Radiological Emergency Preparedness Program (REP)

After Action Report/Improvement Plan

Robert E. Ginna Nuclear Power Plant

Wayne County - Medical Services Hospital - Newark Community Hospital	Chris Cammarata	FEMA RII
Wayne County - Medical Services Transport - Fairville Fire Department	Chris Cammarata	FEMA RII
Wayne County - Backup Route Alerting	Kevin Reed	FEMA RII
Wayne County - Special Population Bus Company - Wayne Area Transport Service	William Cullen Miriam Weston	FEMA R II FEMA RII
Wayne County - School Interview - Freewill Elementary School	Kevin Reed	FEMA RII
Wayne County - General Population Reception Center - Newark High School	Chris Cammarata Kevin Reed	FEMA RII FEMA RII
Wayne County - School Interview - Ontario Elementary School	Kevin Reed	FEMA RII
Wayne County - School Interview - Ontario Primary School	Kevin Reed	FEMA RII
Wayne County - School Interview - Thomas Armstrong Middle School	Kevin Reed	FEMA RII
Wayne County - School Interview - James A. Benway High School	Kevin Reed	FEMA RII
Wayne County - School Interview - Williamson Elementary School	Kevin Reed	FEMA RII
Wayne County - School Interview - Williamson Middle School	Kevin Reed	FEMA RII
Wayne County - School Interview - Williamson Senior High School	Kevin Reed	FEMA RII
Wayne County - School Bus Company - Penfield School Busses	William Cullen Miriam Weston	FEMA R II FEMA RII
Wayne County - Traffic Control Point - Wayne County Sheriff's Department	Miriam Weston	FEMA RII
Wayne County - School Bus Company - Williamson Central School District	William Cullen Miriam Weston	FEMA R II FEMA RII
* Team Leader		

APPENDIX D: ACRONYMS AND ABBREVIATIONS

Acronym	Meaning
ARC	American Red Cross
CAEM	County Associate Emergency Manager
CPM	Counts Per Minute
CRO	County Radiological Officer
CWP	County Warning Point
DPC	Disaster Preparedness Commission
DRD	Direct Reading Dosimeter
EAL	Emergency Action Level
EAS	Emergency Alert System
ECD	Emergency Communications Department
ECL	Emergency Classification Level
EM	Emergency Managers
EMD	Emergency Management Director
EMO	Emergency Management Office
EMS	Emergency Medical Services
EMSC	Emergency Medical Services Coordinator
EMT	Emergency Medical Technicians
EOC	Emergency Operations Center
EOF	Emergency Operation Facility
EPZ	Emergency Planning Zone
ER	Emergency Room
ERDS	Emergency Response Data System
ERPA	Emergency Response Protection Areas
EW	Emergency Worker
EWP	Emergency Worker Packet
EWPMC	Emergency Worker Personnel Monitoring Center
FAA	Federal Aviation Administration
FD	Fire Department
FDC	Fire Department Coordinator
FLCC	Finger Lakes Community College
FMT	Field Monitoring Team
FTC	Field Team Coordinator
FTP	File Transfer Protocol
GE	General Emergency

GIS	Geographic Information System
GNPP	Ginna Nuclear Power Plant
GNPS	Ginna Nuclear Power Station
GP	General Population
HDC	Highway Department Coordinator
HERDS	Health Emergency Response Data System
IBOB	Irondequoit Bay Outlet Bridge
JIC	Joint Information Center
MC	Monroe County
MCAEM	Monroe County Associate Emergency Manager
MCC	Monroe Community College
MCH	Monroe Community Hospital
MCLEL	Monroe County Lead Emergency Liaison
MCREPP	Monroe County Radiological Emergency Preparedness Plan
MCWP	Monroe County Warning Point
NFO	Nuclear Facility Operator
NY	New York
NYS	New York State
NYSEMO	New York State Emergency Management Office
NYSEOC	New York State Emergency Operations Center
NYSWP	New York State Warning Point
OSLD	Optically Simulated Luminescent Dosimeter
PAD	Protective Action Decisions
PAG	Protective Action Guidelines
PAR	Protective Action Recommendation
PIO	Public Information Officer
PMC	Personnel Monitoring Center
PWR	Pressurized Water Reactor
RACES	Radio Amateur Civil Emergency Services
REA	Radiological Emergency Area
RECS	Radiological Emergency Communications System
RED	Radiological Emergency Data
REP	Radiological Emergency Preparedness
RERP	Radiological Emergency Response Plan
ROC	Rochester Operations Center
RSO	Radiological Safety Officer
RTA	Rochester Transit Authority
RTM	Response Technical Manual
RTS	Regional Transportation Service
SAE	Site Area Emergency

SEOC	State Emergency Operations Center
SP	Special Population
SPDS	Safety Parameter Display System
TCP	Traffic Control Points
TEDE	Total Effective Dose Equivalent
UE	Unusual Event
VMSM	Vehicle Monitoring Station Monitor
VMSR	Vehicle Monitoring Station Recorder
WATS	Wayne Area Transportation Service
WC	Wayne County
WCEOC	Wayne County Emergency Operations Center
WP	Warning Point

APPENDIX E: EXERCISE PLAN

**OFFSITE EXTENT-OF-PLAY FOR THE
R.E. GINNA FULL-PARTICIPATION EXERCISE
October 25, 2011**



R.E. Ginna Nuclear Power Plant

OCTOBER 25, 2011

PLUME EXERCISE

***EXERCISE GROUND RULES AND
OFFSITE EXTENT-OF-PLAY
AGREEMENT***

**OFFSITE EXTENT-OF-PLAY FOR THE
R.E. GINNA FULL-PARTICIPATION EXERCISE
October 25, 2011**

EXTENT-OF-PLAY GROUND RULES

- **REAL LIFE EMERGENCIES TAKE PRIORITY OVER EXERCISE PLAY**
- The Scenario Development Team will develop free play messages. The State Controller will inject the message to the County Emergency Management Director/Administrator or other staff for action.
- Free play messages for the Plume Phase for Public Inquiry at the JIC will be developed by the Scenario Development Team. Public Inquiry messages will be injected at the JIC by a control cell to enable the public inquiry function to identify trends and rumors.
- The State Controller will inject radiological data for any radiological field activities.
- According to REP Program Strategic Initiative 1.5, " During tabletop exercises, drills and other demonstrations conducted out-of-sequence from an integrated exercise, if FEMA and the offsite response organizations (ORO) agree, the FEMA Evaluator may have participants re-demonstrate an activity that is determined to be not satisfactorily demonstrated. Immediate corrective of issues in an integrated exercise is authorized only if it would not be disruptive and interrupt the flow of the exercise and affect other Evaluation Areas." This initiative is not applicable to EOC/JIC/EOF demonstrations during the October 25, 2011 exercise.
- The following criteria (involving ingestion pathway, relocation, re-entry and return, post-plume phase and laboratory operations will not be demonstrated:
 - 2.d.1
 - 2.e.1
 - 3.e.1
 - 3.e.2
 - 3.f.1
 - 4.b.1
 - 4.c.1

**OFFSITE EXTENT-OF-PLAY FOR THE
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EVALUATION AREA 1: EMERGENCY OPERATIONS MANAGEMENT

Sub-element 1.a – Mobilization

Criterion 1.a.1: OROs use effective procedures to alert, notify, and mobilize emergency personnel and activate facilities in a timely manner. (NUREG-0654, A.4; D.3, 4; E.1, 2; H.4)

WARNING POINTS (NYS, Wayne & Monroe Counties)

Extent-of-Play Agreement:

- The latest revised call lists will be provided at the Federal/State evaluators briefing session the day before the exercise, if requested by FEMA. The lists will contain home and business telephone numbers and it is requested that these lists remain confidential.
- There will be no free play messages introduced at the Warning Points.

Emergency Operations Centers (EOCs) (NYS, WAYNE and MONROE Counties)

Extent-of-Play Agreement:

- State liaisons will be pre-positioned in the area and will arrive at the County EOCs no sooner than 30 minutes after the Alert or higher notification is received by the State to respond. The licensee technical liaison assigned to the State EOC will be pre-positioned and arrive at the State EOC no sooner than 30 minutes after the Alert or higher notification is received to respond.

Emergency Operations Facility (EOF)

Extent-of-Play Agreement:

- State liaisons will be pre-positioned in the area and will arrive at the EOF no sooner than 30 minutes after the Alert or higher notification is received by the State to respond.
- County liaisons will be notified to report in real-time in accordance with plans and procedures.

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Joint Information Center (JIC)

Extent-of-Play Agreement:

- **State JIC staff will be pre-positioned and arrive at the JIC no sooner than 30 minutes after the Alert or higher notification is received by the State to respond.**
- **County JIC representatives will be notified to report in real-time in accordance with plans and procedures.**

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EVALUATION AREA 1: EMERGENCY OPERATIONS MANAGEMENT

Sub-element 1.b – Facilities

Criterion 1.b.1: Facilities are sufficient to support the emergency response. (NUREG-0654, H.3)

Extent-of-Play Agreement:

- **Wayne County's new Emergency Operations Center was evaluated on June 22, 2011.**

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EVALUATION AREA 1: EMERGENCY OPERATIONS MANAGEMENT

Sub-element 1.c - Direction and Control

Criterion 1.c.1: Key personnel with leadership roles for the ORO provide direction and control to that part of the overall response effort for which they are responsible. (NUREG-0654, A.1.d; A.2.a., b.)

Extent-of-Play Agreement:

- **The State Controller will inject free play messages to the County Emergency Management Director/Administrator or designee for action.**
- **Public Inquiry messages will be injected at the JIC by a "control cell"**

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EVALUATION AREA 1: EMERGENCY OPERATIONS MANAGEMENT

Sub-element 1.d – Communications Equipment

Criterion 1.d.1: At least two communication systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations. Communications capabilities are managed in support of emergency operations. (NUREG-0654, F.1, 2).

Extent-of-Play Agreement:

- **A State Controller will inject a free play message to the County Emergency Management Director or designee to initiate the demonstration of backup systems to communicate from the County EOCs to the EOF, JIC, and Field Monitoring Teams.**

Wayne County

	<u>Primary</u>	<u>Backup</u>
SEOC	ExHotline	Telephone
EOF	RECS	Telephone
JIC	Telephone	E-Mail/Cell/FTP Site
MCEOC	ExHotline	Telephone
Field Team	RACES	EOC Radio
R/C	Telephone	RACES

Monroe County

	<u>Primary</u>	<u>Backup</u>
SEOC	ExHotline	Telephone
EOF	RECS	Telephone
JIC	Telephone	E-Mail/Cell
WEOC	ExHotline	Telephone
Field Team	Radio	Cell phone
R/C	Telephone	RACES/telephone/cell

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EVALUATION AREA 1: EMERGENCY OPERATIONS MANAGEMENT

Sub-element 1.e – Equipment and Supplies to Support Operations

Criterion 1.e.1: Equipment, maps, displays, dosimetry, potassium iodide (KI), and other supplies are sufficient to support emergency operations. (NUREG-0654, H.7, 10; J.10.a, b, e, J.11; K.3.a)

Extent-of-Play Agreement:

- **No equipment such as barriers, traffic cones, signs, etc. will be deployed to the field.**

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EVALUATION AREA 2: PROTECTIVE ACTION DECISION-MAKING

Sub-element 2.a – Emergency Worker Exposure Control

Criterion 2.a.1: OROs use a decision-making process, considering relevant factors and appropriate coordination, to insure that an exposure control system, including the use of KI, is in place for emergency workers including provisions to authorize radiation exposure in excess of administrative limits or protective action guides. (NUREG-0654, J.10.e, f; K.4)

Extent-of-Play Agreement:

- **A State Controller will inject a free play message to each field monitoring team that will initiate a discussion between the F/T Coordinator and the field team regarding what actions would be taken if the exposure limits or applicable exposure rate limits are reached. This will be a discussion only activity.**
- **Wayne County plans do not utilize a turn-back value.**
- **Monroe County plans utilize turn-back values for exposure and exposure rate.**
- **Both Monroe and Wayne Counties are in possession of permanent record OSLD badges.**

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EVALUATION AREA 2: PROTECTIVE ACTION DECISION-MAKING

**Sub-element 2.b. Radiological Assessment and Protective Action
Recommendations and Decisions for the Plume Phase of the Emergency**

Criterion 2.b.1: Appropriate protective action recommendations are based on available information on plant conditions, field monitoring data, and licensee and ORO dose projections, as well as knowledge of on-site and off-site environmental conditions. (NUREG-0654, I.8, 10 and Supplement 3).

Extent-of-Play Agreement:

All activities will be based on the State/County's plans and procedures as they would in an actual emergency.

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EVALUATION AREA 2: PROTECTIVE ACTION DECISION-MAKING

**Sub-element 2.b. Radiological Assessment and Protective Action
Recommendations and Decisions for the Plume Phase of the Emergency**

Criterion 2.b.2: A decision-making process involving consideration of appropriate factors and necessary coordination is used to make protective action decisions (PADs) for the general public (including the recommendation for the use of KI, if ORO policy). (NUREG-0654, J.9, 10.f, m).

Extent-of-Play Agreement:

All activities will be based on the State/County's plans and procedures as they would in an actual emergency.

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EVALUATION AREA 2: PROTECTIVE ACTION DECISION-MAKING

**Sub-element 2.c - Protective Action Decisions Consideration for the
Protection of Special Populations**

**Criterion 2.c.1: Protective action decisions are made, as appropriate,
for special population groups. (NUREG-0654, J.9, J.10.d, e)**

EXTENT-OF-PLAY AGREEMENT FOR THE FOLLOWING:

- **TRANSPORTATION DEPENDENT POPULATION**
- **NOTIFICATION OF HEARING IMPAIRED**
- **NON-INSTITUTIONALIZED MOBILITY IMPAIRED INDIVIDUALS**
- **SCHOOLS**
- **SPECIAL FACILITIES**

AGREEMENT:

**All above activities will be based on the State/County's plans and
procedures as they would in an actual emergency.**

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EVALUATION AREA 2: PROTECTIVE ACTION DECISION-MAKING

**Sub-element 2.d. –Radiological Assessment and Decision-Making for the
Ingestion Exposure Pathway**

Criterion 2.d.1: Radiological consequences for the ingestion pathway are assessed and appropriate protective action decisions are made based on the ORO planning criteria. (NUREG-0654, J.9, J.11).

NOT TO BE DEMONSTRATED DURING THIS EXERCISE.

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EVALUATION AREA 2: PROTECTIVE ACTION DECISION-MAKING

**Sub-element 2.e. – Radiological Assessment and Decision-Making
Concerning Relocation, Re-entry, and Return**

Criterion 2.e.1: Timely relocation, re-entry, and return decisions are made and coordinated as appropriate, based on assessments of the radiological conditions and criteria in the ORO's plan and/or procedures. (NUREG-0654, I.10; J.9; M.1)

NOT TO BE DEMONSTRATED DURING THIS EXERCISE.

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EVALUATION AREA 3: PROTECTIVE ACTION IMPLEMENTATION

Sub-element 3.a – Implementation of Emergency Worker Exposure Control

Criterion 3.a.1: The OROs issue appropriate dosimetry and procedures, and manage radiological exposure to emergency workers in accordance with the plans and procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart. (NUREG-0654, K.3.a, b)

Extent-of-Play Agreement:

All activities will be based on the State/County's plans and procedures as they would in an actual emergency.

The dosimetry added to Newark Wayne Hospital will be verified.

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EVALUATION AREA 3: PROTECTIVE ACTION IMPLEMENTATION

Sub-element 3.b – Implementation of KI Decision

Criterion 3.b.1: KI and appropriate instructions are available should a decision to recommend use of KI be made. Appropriate record keeping of the administration of KI for emergency workers and institutionalized individuals is maintained. (NUREG-0654, J.10. e)

Extent-of-Play Agreement:

All activities will be based on the State/County's plans and procedures as they would in an actual emergency.

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EVALUATION AREA 3: PROTECTIVE ACTION IMPLEMENTATION

Sub-element 3.c – Implementation of Protective Actions for Special Populations

Criterion 3.c.1: Protective action decisions are implemented for special populations other than schools within areas subject to protective actions. (NUREG-0654, J.10.c, d, g).

EVACUATION OF TRANSPORTATION DEPENDENT POPULATION

Extent-of-Play Agreement:

- Bus companies will be interviewed in accordance with the out-of-sequence extent of play activities schedule.
- Each company will provide a dispatcher and at least 10% of that company's drivers needed to implement the Plan for interview.
- During the October 25, 2011 exercise, there will be initial contact with the transportation providers (telephone call) by the Transportation Coordinator. Initial contacts will be actual and any follow-up calls may be simulated. All calls to the transportation provider will be logged at the County EOCs.
- There will be no actual dispatch of vehicles during the exercise.

NOTIFICATION OF HEARING IMPAIRED

Extent-of-Play Agreement:

- The hearing impaired list will be available for inspection at each County EOC. The list will be reviewed but not retained by the Federal evaluator. The procedures for notification will also be discussed at the County EOC.
- There will be no actual notification of hearing impaired individuals during the exercise.
- The equipment and location will be identified and observed.
- A TDD to TDD test message will be demonstrated between the EOC and 911 locations in Monroe County and between 911 consoles in Wayne County.

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**EVACUATION OF NON-INSTITUTIONALIZED MOBILITY IMPAIRED
INDIVIDUALS**

Extent-of-Play Agreement:

- The list of non-institutionalized mobility impaired individuals will be available for inspection at the County EOC. The lists will be reviewed but not retained by the Federal evaluator.
- There will be no actual dispatch of vehicles for transport of non-institutionalized mobility impaired individuals.
- During the exercise, there will be no actual contact of non-institutionalized mobility-impaired individuals identified on the list.

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EVALUATION AREA 3: PROTECTIVE ACTION IMPLEMENTATION

Sub-element 3.c – Implementation of Protective Actions for Special Populations

Criterion 3.c.2: OROs/School officials implement protective actions for schools. (NUREG-0654, J.10.c, d, g).

EVACUATION OF SCHOOL POPULATIONS

Extent-of-Play Agreement:

- **Bus companies will be interviewed in accordance with the out-of-sequence extent of play activities schedule.**
- **Each company will provide a dispatcher and at least 10% of that company's drivers needed to implement the Plan for interview.**
- **During the October 25, 2011 exercise, there will be initial contact with the schools (telephone call) by the School Coordinator. Initial contacts will be actual and any follow-up calls will be simulated. All calls to the Schools will be logged at the County EOC.**

SCHOOL INTERVIEWS

Extent-of-Play Agreement:

- **Schools will be interviewed as per the out-of-sequence extent of play activities schedule.**

SPECIAL FACILITIES

Extent-of-Play Agreement:

- **During the exercise, there will be initial contact with the special facilities (telephone call). Initial contacts will be actual and any follow-up calls will be simulated. All calls to special facilities will be logged at the County EOC.**
- **There will be no actual dispatch of vehicles to the special facilities.**

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EVALUATION AREA 3: PROTECTIVE ACTION IMPLEMENTATION

Sub-element 3.d. – Implementation of Traffic and Access Control

Criterion 3.d.1: Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access control personnel. (NUREG-0654, J.10.g, j)

TRAFFIC AND ACCESS CONTROL POINTS (TCPs and ACPs)

Extent-of-Play Agreement:

- **During the October 25, 2011 exercise, law enforcement officials will discuss how to activate TCPs/ACPs. (EOC Discussion)**
- **The TCPs/ACPs will be identified by a free play message provided by the State Controller to the County Emergency Management Director or designee. Actual travel to the TCP/ACP will not be demonstrated.**
- **In Wayne County, one Wayne County Sheriff Deputy and one NYSP Officer will be interviewed at the Wayne County EOC during the October 25, 2011 exercise. *It is understood that the NYSP are under the command and control of NYS and follow the NYS REP Plan.***
- **In Monroe County, one Monroe County Sheriff Deputy and one Webster Police Officer will be interviewed in accordance with the out-of-sequence extent of play activities schedule**
- **No equipment such as barriers, traffic cones, signs, etc will be deployed to the field.**

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EVALUATION AREA 3: PROTECTIVE ACTION IMPLEMENTATION

Sub-element 3.d. – Implementation of Traffic and Access Control

**Criterion 3.d.2: Impediments to evacuation are identified and resolved.
(NUREG-0654, J.10.k).**

IMPEDIMENTS TO EVACUATION

Extent-of-Play Agreement:

- **The County will demonstrate the organizational ability to deal with at least two (2) impediments to evacuation on the day of the exercise. (EOC Discussion)**
- **The State Controller in the County EOC will hand the free play messages to the County Emergency Management Director/Administrator or designee for action to test the procedures for the removal of traffic impediments.**
- **No equipment (Barriers, Traffic cones, Signs, etc.) will be deployed to the field.**
- **This demonstration will not involve the dispatch of a police or other emergency vehicle to the scene of a simulated impediment on the day of the exercise. Initial contact of resource providers will actually occur. All calls concerning traffic impediments will be logged at the County EOC.**

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EVALUATION AREA 3: PROTECTIVE ACTION IMPLEMENTATION

Sub-element 3.e – Implementation of Ingestion Pathway Decisions

Criterion 3.e.1: The ORO demonstrates the availability and appropriate use of adequate information regarding water, food supplies, milk, and agricultural production within the ingestion exposure pathway emergency planning zone for implementation of protective actions. (NUREG-0654, J.9, 11).

NOT TO BE DEMONSTRATED DURING THIS EXERCISE.

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EVALUATION AREA 3: PROTECTIVE ACTION IMPLEMENTATION

Sub-element 3.e – Implementation of Ingestion Pathway Decisions

Criterion 3.e.2: Appropriate measures, strategies, and pre-printed instructional material are developed for implementing protective action decisions for contaminated water, food products, milk, and agricultural production. (NUREG-0654, J.9, 11).

NOT TO BE DEMONSTRATED DURING THIS EXERCISE.

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EVALUATION AREA 3: PROTECTIVE ACTION IMPLEMENTATION

**Sub-element 3.f. – Implementation of Relocation, Re-entry, and Return
Decisions**

Criterion 3.f.1: Decisions regarding controlled re-entry of emergency workers and relocation and return of the public are coordinated with appropriate organizations and implemented. (NUREG-0654, M.1, 3).

Extent-of-Play Agreement:

NOT TO BE DEMONSTRATED DURING THIS EXERCISE.

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EVALUATION AREA 4: FIELD MEASUREMENT AND ANALYSIS

Sub-element 4.a – Plume Phase Field Measurements and Analyses

Criterion 4.a.1: The field teams are equipped to perform field measurements of direct radiation exposure (cloud and ground shine) and to sample airborne radioiodine and particulates. (NUREG-0654, H.10; I.7, 8, 9)

Extent-of-Play Agreement:

- **At least monitoring team member of each team will demonstrate proper donning, usage and removal of protective clothing at the respective dispatch location. Teams will not be suited up in protective clothing after leaving the dispatch location. Additional protective clothing supplies will be available for inspection.**

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EVALUATION AREA 4: FIELD MEASUREMENT AND ANALYSIS

Sub-element 4.a – Plume Phase Field Measurements and Analyses

Criterion 4.a.2: Field teams are managed to obtain sufficient information to help characterize the release and to control radiation exposure. (NUREG-0654, H.12; I.8, 11; J.10.a)

Extent-of-Play Agreement:

All activities will be based on the State/County's plans and procedures as they would in an actual emergency.

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EVALUATION AREA 4: FIELD MEASUREMENT AND ANALYSIS

Sub-element 4.a – Plume Phase Field Measurements and Analyses

Criterion 4.a.3: Ambient radiation measurements are made and recorded at appropriate locations, and radioiodine and particulate samples are collected. Teams will move to an appropriate low background location to determine whether any significant (as specified in the plan and/or procedures) amount of radioactivity has been collected on the sampling media. (NUREG-0654, I.9).

FIELD MONITORING TEAMS

Extent-of-Play Agreement:

- **Each County will dispatch two (2) radiological monitoring team(s). Each team will be provided with a State Controller and a FEMA evaluator.**
- **Each team will take at least six (6) ambient radiation measurements and at least two (2) air samples. All teams must take the air samples as though they were in the presence of the plume (even teams that may not be impacted by the plume).**
- **Contamination control techniques will be demonstrated and discussed (with the exception of donning and removal of disposable protective clothing) at the first (2) sample sites.**
- **There will be no actual transport of samples to the State laboratory.**
- **EOC staff will be questioned only regarding means of transportation of air samples to a rendezvous point and the location of the State laboratory.**

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EVALUATION AREA 4: FIELD MEASUREMENT AND ANALYSIS

Sub-element 4.b – Post Plume Phase Field Measurements and Sampling

Criterion 4.b.1: The field teams demonstrate the capability to make appropriate measurements and to collect appropriate samples (e.g., food crops, milk, water, vegetation, and soil) to support adequate assessments and protective action decision-making. (NUREG-0654, I.8; J.11)

NOT TO BE DEMONSTRATED AT THIS EXERCISE.

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EVALUATION AREA 4: FIELD MEASUREMENT AND ANALYSIS

Sub-element 4.c - Laboratory Operations

**Criterion 4.c.1: The laboratory is capable of performing required radiological analyses to support protective action decisions.
(NUREG-0654, C.3; J.11)**

NOT TO BE DEMONSTRATED DURING THIS EXERCISE.

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**EVALUATION AREA 5: EMERGENCY NOTIFICATION & PUBLIC
INFORMATION**

Sub-element 5.a – Activation of the Prompt Alert and Notification System

Criterion 5.a.1: Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. The initial instructional message to the public must include as a minimum the elements required by current FEMA REP guidance. (10 CFR Part 50, Appendix E.IV.D & NUREG-0654, E.5, 6, 7)

Extent-of-Play Agreement:

- **There will be no actual siren sounding, no actual tone alert radio activation, and no broadcasting of EAS messages. The entire R.E. GINNA siren system was last successfully tested on May 6, 2010. The full activation test was completed on May 5, 2011.**
- **Radio station WHAM will be contacted and provided each EAS message and follow-on press release, and will simulate the broadcast of at least one EAS message. The radio station can choose which EAS message to simulate the broadcast.**
- **Regular programming responsibilities of the radio station may preclude participation at the time of the issuance of the simulated EAS message.**
- **Wayne and Monroe Counties will perform a silent siren test in sequence with the scenario for the first EAS activation only. Upon completion of the test, the State Controller will provide an inject message to the system operator, and procedures will be followed for backup notifications based on the inject message.**

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**EVALUATION AREA 5: EMERGENCY NOTIFICATION & PUBLIC
INFORMATION**

Sub-element 5.a – Activation of the Prompt Alert and Notification System

Criterion 5.a.2: RESERVED

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EVALUATION AREA 5: EMERGENCY NOTIFICATION & PUBLIC INFORMATION

Sub-element 5.a – Activation of the Prompt Alert and Notification System

Criterion 5.a.3: Activities associated with FEMA approved exception areas (where applicable) are completed within 45 minutes following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. Backup alert and notification of the public is completed within 45 minutes following the detection by the ORO of a failure of the primary alert and notification system. (NUREG-0654, E. 6, Appendix 3.B.2.c).

Extent-of-Play Agreement:

- **There are no exception areas that require supplementary route alerting.**
- **Wayne and Monroe Counties will perform a silent siren test in sequence with the scenario for the first EAS activation only. Upon completion of the test, the State Controller will provide an inject message to the system operator, and procedures will be followed for backup notifications based on the inject message.**
- **If there are no siren failures indicated by the silent test, a siren failure inject message will be handed to the siren system operator, and procedures will be followed for backup notifications based on the inject message.**

In accordance with the out-of-sequence extent-of-play activities schedule,

- **The Marion Fire Department will provide one representative with a vehicle capable of public notification to actually drive the route for the simulated siren failure as identified by the federal evaluator.**
- **The route alerting demonstration will not include actual vehicle siren sounding or public address announcement of emergency instructions. However, the emergency instructions or message will be read aloud to the Federal evaluator.**
- **Back-up alert and notification of the public is to be completed within 45 minutes following the detection by the ORO of a failure of the primary system. To verify this, during the EOC demonstration, the FEMA EOC evaluator will note how long it takes between when the simulated siren failure is injected by the controller and when the volunteer fire personnel are called**

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upon to run the route. During the actual route alert demonstration, that time will be added to the time it takes to run the route.

- **In Monroe County, back-up notification is performed via "Hyper-Reach". All telephone numbers within a siren coverage area have been identified and are able to be contacted by 911 using the Hyper-Reach system. No actual calls will be made during the Hyper-Reach demonstration. This is an EOC discussion.**

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**EVALUATION AREA 5: EMERGENCY NOTIFICATION & PUBLIC
INFORMATION**

**Sub-element 5.b – Emergency Information and Instructions for the Public
and the Media**

**Criterion 5.b.1: OROs provide accurate emergency information and
instructions to the public and the news media in a timely manner.
(NUREG-0654, E. 5, 7; G.3.a, G.4.c).**

PUBLIC INSTRUCTION AND EMERGENCY INFORMATION

Extent-of-Play Agreement:

**All activities will be based on the State/County's plans and procedures as
they would in an actual emergency.**

EMERGENCY INFORMATION

Extent-of-Play Agreement:

**All activities will be based on the State/County's plans and procedures as
they would in an actual emergency.**

PUBLIC INQUIRY

Extent-of-Play Agreement:

- **The public inquiry function at the JIC will be staffed by at least four operators with one supervisor. Public Inquiry staffing will be provided by licensee personnel.**
- **Inject messages will indicate false or misleading information to enable the public inquiry function to identify a minimum of 2 trends or false rumors.**
- **Conduct at least 2 actual briefings as selected by the Federal Evaluators. All other briefings will be prepared/developed up to the point of performance of the actual briefing.**

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EVALUATION AREA 6: SUPPORT OPERATION/FACILITIES

**Sub-element 6.a – Monitoring and Decontamination of Evacuees and
Emergency Workers, and Registration of Evacuees**

Criterion 6.a.1: The reception center/emergency worker facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees and/or emergency workers. (NUREG-0654, J.10.h; J.12; K.5.a)

Extent-of-Play Agreement:

- Each county will demonstrate the set up and operation of a General Population Reception Center in accordance with the out-of-sequence extent of play activities schedule.
- Monitoring and Decontamination techniques will be demonstrated as follows: Staff will be provided to simulate evacuees.
- One lane for vehicle monitoring with at least 1 monitor monitoring at least 2 vehicles;
- One portal monitoring station monitoring at least 6 individuals;
- One registration station with 2 personnel registering at least 2 individuals each;
- One male or one female decon station with 2 monitors to simulate at least 1 personnel decontamination each;
- One vehicle decon station with at least 1 monitor to simulate at least 2 vehicle decontaminations;
- Other staff will be demonstrated through the use of rosters;
- The facility will be setup as it would be in an actual emergency with all route markings and contamination control measures in place with the exception that Reception Center floors will not be covered with paper/plastic;
- Decontamination techniques will be simulated.
- At least one member of the monitoring or decontamination staff in each facility will demonstrate proper donning, usage and removal of

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protective clothing. Additional protective clothing supplies will be available for inspection.

- **Normal and backup communications will be discussed between the Reception Center and each County EOC during the demonstration.**

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EVALUATION AREA 6: SUPPORT OPERATION/FACILITIES

Sub-element 6.b – Monitoring and Decontamination of Emergency Worker Equipment

Criterion 6.b.1: The facility/ORO has adequate procedures and resources for the accomplishment of monitoring and decontamination of emergency worker equipment including vehicles. (NUREG-0654, K.5.b).

NOT TO BE DEMONSTRATED DURING THIS EXERCISE.

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EVALUATION AREA 6: SUPPORT OPERATION/FACILITIES

Sub-element 6.c - Temporary Care of Evacuees

Criterion 6.c.1: Managers of congregate care facilities demonstrate that the centers have resources to provide services and accommodations consistent with American Red Cross planning guidelines (found in MASS CARE-Preparedness Operations, ARC 3031). Managers demonstrate the procedures to assure that evacuees have been monitored for contamination and have been decontaminated as appropriate prior to entering congregate care facilities. (NUREG-0654, J.10.h, J.12).

NOT TO BE DEMONSTRATED DURING THIS EXERCISE.

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EVALUATION AREA 6: SUPPORT OPERATION/FACILITIES

**Sub-element 6.d - Transportation and Treatment of Contaminated Injured
Individuals**

Criterion 6.d.1: The facility/ORO has the appropriate space, adequate resources, and trained personnel to provide transport, monitoring, decontamination, and medical services to contaminated injured individuals. (NUREG-0654, F.2; H.10; K.5.a, b; L.1, 4)

Extent-of-Play Agreement:

- **The transportation and facility component of this medical drill will be demonstrated in accordance with the out-of-sequence extent-of-play agreement schedule.**
- **The facility component of this drill will involve the transport of a patient from the Ginna Site to Rochester General Hospital for treatment. This component will be evaluated in accordance with the exercise schedule.**
- **The transportation component of this drill will involve the staging of a simulated, offsite contamination area at the Rural Metro Ambulance headquarters, and demonstration of proper EMS response to a contaminated, medically injured member of the public.**
- **No flashing lights or sirens will be used on the demonstration day.**

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OUT-OF SEQUENCE ACTIVITIES SCHEDULE

RECEPTION CENTERS

DATE

TIME

Wayne	Newark HS	10/18/2011	1800
Monroe	Rush-Henrietta HS	8/24/2011	0900

EMERGENCY WORKER PMC

Wayne	Not in 2011	TBD	
Monroe	Not in 2011	TBD	

**SPECIAL POPULATION (TRANSIT
DEPENDENT)
BUS COMPANY INTERVIEWS**

Wayne	WATS	10/4/2011	2:30 PM
Monroe	RTS	10/5/2011	9 AM

**SCHOOL BUS DRIVER
INTERVIEWS**

Wayne	Williamson & Penfield	10/4/2011	9 AM
Monroe	Webster Central	10/5/2011	1 PM

SCHOOL INTERVIEWS

Wayne	Williamson & Wayne Central	9/21/2011	9 AM 2 PM
Monroe	Plank Rd Elem, Willink MS, Schlegel Elem	9/22/2011	1 PM

TRAFFIC/ACCESS CONTROL POINTS

Wayne	NA – In Sequence	10/25/2011	
Monroe	MC Sheriff, Webster PD	9/22/2011	9 AM

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MS-1 DRILL

Wayne	NWCH/ Fairville Amb.	7/21/2010	-----
Monroe	Rochester Gen. Hospital followed by Local EMS/ Rural Metro	7/13/2011	AM PM
<u>BACK-UP NOTIFICATION</u>			
Wayne	Marion Fire Dept	9/21/2011	1900
Monroe	NA – In Sequence	10/25/2011	

Schedule of Events (Week of October 24, 2011):

Monday, 10/24/11

9:00 am	FEMA Evaluator Briefing	Rochester Airport Marriott Hotel
2:00 pm	State Controller Briefing	Ginna EOF/JIC, Macedon, NY

Tuesday, 10/25/11

TBD	Plume Exercise	All Facilities
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Friday, 10/28/11

11:00 am	FEMA Participants Briefing	Ginna EOF/JIC, Macedon, NY
1:00 pm	Public Meeting	Ginna EOF/JIC, Macedon, NY

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