



Quad Cities Station After Action Report and Improvement Plan

Exercise Date – November 16, 2016 Radiological Emergency Preparedness (REP) Program



FEMA

Published December 16, 2016

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Published December 16, 2016

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EXECUTIVE SUMMARY

On November 16, 2016, a Radiological Emergency Preparedness (REP), Partial Participation, Plume Exposure Pathway Exercise was conducted in the 10-mile Emergency Planning Zone (EPZ) around the Quad Cities Station (QCS) by the U.S. Department of Homeland Security/Federal Emergency Management Agency (DHS/FEMA), Region V. The purpose of the exercise was to assess the level of preparedness of State and local jurisdictions in responding to a radiological emergency. This exercise was held in accordance with DHS/FEMA policies and guidance concerning the exercise of State and local Radiological Emergency Response Plans (RERPs) and procedures.

The most recent exercise at this site was conducted on August 27, 2014. The qualifying emergency preparedness exercise was conducted on May 20, 1981.

DHS/FEMA wishes to acknowledge the efforts of the many individuals who participated in this exercise. The State of Illinois, Rock Island County, and Whiteside County, local municipalities as well as various non-government entities and volunteers all contributed to the success of the 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 on the part of all participants was evident during this exercise. This Draft After Action Report/Improvement Plan contains the evaluation of the biennial exercise and the evaluation of the following out-of-sequence activities:

- MS-1 Medical Drill – Unit Point Health/Trinity Medical Center
- MS-1 Medical Drill – Advanced Medical Transport, Unit Point Health/Trinity Medical Center
- Dosimetry Control Officer Briefing – Illinois State Police District 1 HQ
- Traffic and Access Control Post – Illinois State Police District 1 HQ

Sections 3 and 4 of this report provide detailed information regarding any Level 1 or Level 2 Findings, Plan Issues and Schedule of Corrective Actions.

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SECTION 1: INTRODUCTION

1.1 Exercise Basis

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

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

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

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

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- U.S. Department of Health and Human Services;
- U.S. Department of the Interior;
- U.S. Department of Transportation;
- U.S. Environmental Protection Agency;
- U.S. Food and Drug Administration; and
- U.S. Nuclear Regulatory Commission.

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

Formal submission of the RERPs for the Quad Cities Station to FEMA Region V by the State of Illinois and involved local jurisdictions occurred on March 31, 1981. Formal approval of these RERPs was granted by FEMA on June 4, 1982, under 44 CFR 350.

A REP Partial Participation Plume Exposure Pathway Exercise was conducted on November 16, 2016, and evaluated by DHS/FEMA to assess the capabilities of State and local offsite emergency preparedness organizations in implementing their RERPs and procedures to protect the public's health and safety during a radiological emergency involving the Quad Cities Station. The purpose of this exercise report is to present the exercise results and findings on the performance of the Offsite Response Organizations (ORO) during a simulated radiological emergency.

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

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

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

Section 1 of this report, entitled "Introduction", describes the exercise basis and the State of Illinois portion of the 10-mile and 50-mile Emergency Planning Zones around the Quad Cities Station.

Section 2 of this report, entitled "Exercise Overview", presents information pertaining to the team

that planned and coordinated the exercise. This section also provides a listing of all participating jurisdictions and functional entities that were evaluated.

Section 3 of this report, entitled "Exercise Design Summary", contains the purpose and design of the exercise, a description of the plume pathway EPZ and presents basic information and data relevant to the exercise scenario.

Section 4 of this report, entitled "Analysis of Capabilities," presents detailed information on the demonstration of applicable exercise criteria at each jurisdiction or functional entity evaluated in a jurisdiction-based, issues-only format. This section also contains: (1) descriptions of all Level 1 Findings, Level 2 Findings and/or Plan Issues (if any) assessed during this exercise, recommended corrective actions, and the State and local government's schedule of corrective actions, if applicable, for each identified exercise issue; and (2) descriptions of unresolved Level 2 Findings assessed during previous exercises and the status of the OROs efforts to resolve them.

Section 5 of this report, entitled "Conclusion" presents the DHS/FEMA summary of overall exercise conduct and results as evaluated against the requirements of 44 CFR 350.

1.2 Emergency Planning Zone (EPZ) Description

The Quad Cities Station is located in Rock Island County, Illinois. The Station is 20 miles northeast of the Quad Cities. It is on the eastern bank of the Mississippi River opposite the mouth of the Wapsipinicon River. The topography of the site and its immediate environs is low and relatively flat, with a mean elevation of approximately 605 feet. The ground surface drops off abruptly at the bank of the river, forming a bluff approximately 30 feet high.

The 10-mile EPZ encompasses the following jurisdictions: Rock Island County, which includes the municipalities of Cordova and Port Byron, and Whiteside County, which includes the municipality of Albany. The 2010 population of the 10-mile EPZ is 6,298 persons. The primary land use around the Quad Cities Station is agricultural, with cash grain crops of corn and soybeans. The closest major industries are located in the Cordova Industrial Park northeast of the Station.

Major transportation facilities in the Quad Cities Station 10-mile EPZ are limited to Interstate Highway 88, which passes nine and one-half (9 1/2) miles southeast of the Station; the I&M Rail link and the Mississippi River.

The EPZ also includes several Counties within the State of Iowa within the Jurisdiction of FEMA Region VII.

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SECTION 2: EXERCISE OVERVIEW

2.1 Exercise Details

Exercise Name

Quad Cities Station

Type of Exercise

Plume Exposure Pathway

Exercise Date

November 16, 2016

Program

Department of Homeland Security (DHS)/Federal Emergency Management Agency (FEMA)
Radiological Emergency Preparedness (REP) Program

Scenario Type

Radiological Emergency

2.2 Exercise Planning Team

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2.3 Participating Organizations

Agencies and organizations of the following jurisdictions participated in the QCS REP, Partial-Participation, Plume Exposure Pathway Exercise during the week of November 16, 2016:

Illinois State Jurisdictions

Illinois Emergency Management Agency
(IEMA) Illinois Department of Agriculture
(IAGR) Illinois Civil Service Commission
(ICSC)
Illinois Department of Natural Resources (IDNR)
Illinois Office of the Governor (IGOV)
Illinois National Guard
Illinois Mutual Aid Box Alarm System (MABAS)
Illinois State Police
Illinois State Emergency Operations Center

Risk Jurisdictions

City of Morrison Fire Department
City of Morrison Police
Department
Morrison Community High School District # 6
Rock Island County Board Chairperson
Rock Island County Coroner's Office
Rock Island County Emergency Management Agency Director
Rock Island County Geographic Information System Coordinator
Rock Island County Public Health Department
Rock Island County Public Information Officer
Rock Island County Public Works
Rock Island County Regional Superintendent of Schools
Rock Island County Sheriff's Department
Village of Albany
Village of Cordova Fire Protection District
Whiteside County Board Commissioners
Whiteside County Coroner's Office
Whiteside County Emergency Services and Disaster Agency (ESDA) Director
Whiteside County Health Department
Whiteside County Highway Department
Whiteside County Public Information Officer
Whiteside County Regional Office of Education

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Whiteside County Sheriff's Department

Private Organizations

Advanced Medical Transport (AMT)
American Red Cross – Quad Cities Area Chapter
Exelon Corporation
Radio Amateur Civil Emergency Service (RACES)
Sterling-Rock Falls Amateur Radio Society
(ARES) Unity Point Health-Trinity Medical Center
KCLN/MaC Radio Station
KQCJ Radio Station

Federal Jurisdictions

Federal Emergency Management Agency/ United
States Department of Homeland Security
United States Nuclear Regulatory Commission /
United States Department of Energy



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SECTION 3: EXERCISE DESIGN SUMMARY

3.1 Exercise Purpose and Design

The purpose of this exercise is to evaluate Player actions against current emergency response plans, procedures, and performance capabilities for a National Preparedness Program related incident, and to comply with the requirements of 44 CFR 350 and the guidelines of NUREG 0654/FEMA-REP-1. Exercise Planners utilized the REP Program Manual (RPM) (January 2016) to develop this exercise.

The objective of the DHS/FEMA is to demonstrate reasonable assurance that the public's health and safety can be protected during a NPP emergency.

3.2 Exercise Objectives, Capabilities, and Activities

Exercise objectives and identified Capabilities/REP Criteria selected to be demonstrated are discussed in Appendix E "Extent of Play."

The Exercise Planning Team (EPT) selected objectives that focus on evaluation of emergency response procedures, identifying areas for improvement, and achieving a collaborative attitude. This exercise focused on OROs effectively demonstrating the following objectives:

- Demonstration of effective Emergency Operations Management.
- Demonstration of effective Protective Action Decision Making.
- Demonstration of effective Protective Action Implementation.
- Demonstration of effective Emergency Notification and Public Information.
- Demonstrate the ability of personnel to exercise proper radiological controls and issuance of dosimetry.
- Demonstrate the ability of EMS personnel to transport a contaminated injured patient.
- Demonstrate the ability of hospital personnel to treat a contaminated injured patient.
- Demonstrate proper communication between medical personnel and IEMA staff.

3.3 Scenario Summary

Appendix F “Scenario Timelines” contains a summary of the Exercise Scenario, a simulated sequence of events that was used as the basis for invoking emergency response actions by OROs during the QCS REP Partial-Participation Plume Exposure Pathway Exercise on November 16, 2016.

Results of a technical review of the scenario, submitted on September 14, 2016, indicated that the scenario was adequate to support demonstration of the DHS/FEMA requirements, as well as criteria selected by the off-site response organizations provided in the State of Illinois’ July 11, 2016, August 18, 2016, September 20, 2016, and November 14, 2016 extent-of-play submissions.

During the exercise, in addition to information and data provided through the QCS onsite scenario, controllers from the State of Illinois provided “inject messages” containing scenario events and/or relevant data to those persons or locations who would normally receive notification of such events. These inject messages were the method used for invoking additional specific response actions by OROs.

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SECTION 4: ANALYSIS OF CAPABILITIES

4.1 Exercise Evaluation and Results

This section presents the results and findings of the evaluation of all State of Illinois, Rock Island County, and Whiteside County offsite response organizations that participated in the November 16, 2016, Quad Cities Station (QCS) Radiological Emergency Preparedness (REP), Partial-Participation, Plume Exposure Pathway Exercise. The exercise was conducted jointly by FEMA Regions V and VII, the States of Illinois and Iowa, and the Risk Counties of Rock Island and Whiteside in Illinois, and Clinton and Scott in Iowa.

Each jurisdiction and functional entity was evaluated based on its demonstration of exercise criteria delineated in the FEMA P-1028 REP Program Manual, dated January 2016. Detailed information on the exercise criteria and the extent-of-play agreement used in this exercise can be found in Appendix E: Extent of Play.

Presented below are definitions of the terms used in this report relative to the criteria demonstration status:

- **M – Met:** The status of a REP exercise Evaluation Area Criterion indicating that the participating ORO demonstrated all demonstration criteria for the Evaluation Area Criterion to the level required in the extent-of-play agreement with no Level 1 or 2 Findings or Plan Issues assessed in the current exercise and no unresolved prior issues.
- **L1 – Level 1 Finding:** An observed or identified inadequacy of organizational performance in an exercise that could cause a finding that offsite emergency preparedness is not adequate to provide reasonable assurance that appropriate protective measures can be taken in the event of a radiological emergency to protect the health and safety of the public living in the vicinity of a nuclear power plant.
- **L2 – Level 2 Finding:** An observed or identified inadequacy of organizational performance in an exercise that is not considered, by itself, to adversely impact public health and safety. Listing of the demonstrated exercise criteria under which a Level 2 Finding was assessed during the current exercise or Level 2 Finding assessed during prior exercises remain unresolved. Included is a description of any Level 2 Findings assessed during this exercise and the recommended corrective action to be demonstrated before or during the next biennial exercise.

- P – Plan Issue: An observed or identified inadequacy in the ORO’s emergency plan or implementing procedures, rather than in the ORO’s performance.
- N – Not Demonstrated: Exercise criteria that were not demonstrated as scheduled during this exercise and the reason(s) they were not demonstrated.
- Prior Issues – Resolved: Descriptions of Level 2 Findings assessed during previous exercises that were resolved and the corrective actions demonstrated, in this exercise.
- Prior Issues – Unresolved: Descriptions of Level 2 Findings assessed during prior exercises that were not resolved in this exercise. Included in the descriptions is the reason the Level 2 Finding remains unresolved and the recommended corrective actions to be demonstrated before or during the next exercise.

4.2 Summary Results of Exercise Evaluation

This subsection provides information on the evaluation of each participating jurisdiction and functional entity in jurisdiction-based, issues-only format.

The matrix presented in Table 3.1, on the following page(s), presents the status of all exercise criteria from the FEMA P-1028 REP Program Manual, dated January 2016, which were scheduled for demonstration during this exercise by all participating jurisdictions and functional entities. The Exercise Criterion status box is blank if it was not scheduled for demonstration.

The DHS/FEMA has developed a standardized system for numbering exercise issues. This system is used to achieve consistency in numbering exercise issues among DHS/FEMA Regions and site-specific exercise reports within each Region. It also is used to expedite tracking of exercise issues on a nationwide basis.

The identifying number of Level 1 Findings, Level 2 Findings, and Plan Issues includes the following elements, with each element separated by a hyphen (-).

- Plant Site Identifier – A two-digit number, corresponding to the Utility Billable Plant Site Code (51 for the Quad Cities Station).
- Exercise Year – The last two digits of the year the exercise was conducted.
- Demonstration Criterion – The letters and number corresponding to the Demonstration Criterion in the six Exercise Evaluation Areas described in the FEMA P-1028 REP Program Manual, dated January 2016, which supersedes the Federal Register Notice, Vol.

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67, No. 80, dated April 25, 2002.

- Issue Classification Identifier – (L1 = Level 1 Finding, L2 = Level 2 Finding, P = Plan Issue).
- Exercise Issue Identification Number – A separate two or three-digit indexing number assigned to each issue identified in the exercise.



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Table 3.1 - Summary of Exercise Evaluation (3 pages)

<p align="center">DATE: 2016-11-16 SITE: Quad Cities Station, IL</p> <p align="center">M: Met, L1: Level 1 Finding, L2: Level 2 Finding, P: Plan Issue, N: Not Demonstrated</p>						
		IL - IWP	IL - REAC	IL-EOC ROC-IL/SRA-	IL-EOC ROC-IL/SL-	IL-EOC WHI-IL/SRA-
				IL-EOC WHI-IL/SL-		
Emergency Operations Management						
Mobilization	1a1	M	M			
Facilities	1b1					
Direction and Control	1c1		M	M		M
Communications Equipment	1d1	M	M			
Equipment and Supplies to Support Operations	1e1		M			
Protective Action Decision Making						
EW Exposure Control Decisions	2a1			M		M
PARs	2b1		M			
PADs	2b2		M	M		M
PADs for Disabled/Functional Needs	2c1		M	M		M
Ingestion PADs	2d1					
RRR Decisions	2e1					
Protective Action Implementation						
EW Exposure Control Implementation	3a1			M		M
KI Public/Institutionalized	3b1		M			
PAD Implementation Disabled/Functional Needs	3c1					
PAD Implementation Schools	3c2					
TACP Establishment	3d1					
Impediments	3d2					
Implement Ingestion PADs	3e1					
Ingestion Pathway Decisions	3e2					
Implementation of RRR Decisions	3f1					
Field Measurement and Analysis						
RESERVED	4a1					
Field Team Management	4a2					
Field Team Operations	4a3					
Field Team Sampling	4b1					
Laboratory Operations	4c1					
Emergency Notification and Public Info						
Initial Alert & Notification	5a1			M	M	M
RESERVED	5a2					
Backup Alert & Notification	5a3					
Exception Area Alerting	5a4					
Subsequent Information & Instructions	5b1		M		M	M
Support Operations/Facilities						
Reception Center Operations	6a1					
EW Monitoring & Decontamination	6b1					
Congregate Care	6c1					
Contaminated Injured Transport & Care	6d1					

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<p align="center">DATE: 2016-11-16 SITE: Quad Cities Station, IL</p> <p align="center">M: Met, L1: Level 1 Finding, L2: Level 2 Finding, P: Plan Issue, N: Not Demonstrated</p>		IL-ISP D#1 HQ--DCO B-	IL-ISP D#1 HQ--TACP-	IL-Unity-Trinity MC-MS1-H	IL-Unity-Trinity MC-MS1-T	ROC-IWP---	ROC-EOC---	ROC--Sheriffs-TACP-DCO B
Emergency Operations Management								
Mobilization	1a1					M	M	
Facilities	1b1							
Direction and Control	1c1						M	
Communications Equipment	1d1		M	M	M	M	M	
Equipment and Supplies to Support Operations	1e1	M	M	M	M		M	M
Protective Action Decision Making								
EW Exposure Control Decisions	2a1							
PARs	2b1							
PADs	2b2						M	
PADs for Disabled/Functional Needs	2c1						M	
Ingestion PADs	2d1							
RRR Decisions	2e1							
Protective Action Implementation								
EW Exposure Control Implementation	3a1	M	M	M	M		M	M
KI Public/Institutionalized	3b1						M	
PAD Implementation Disabled/Functional Needs	3c1						M	
PAD Implementation Schools	3c2						M	
TACP Establishment	3d1		M				M	
Impediments	3d2						M	
Implement Ingestion PADs	3e1							
Ingestion Pathway Decisions	3e2							
Implementation of RRR Decisions	3f1							
Field Measurement and Analysis								
RESERVED	4a1							
Field Team Management	4a2							
Field Team Operations	4a3							
Field Team Sampling	4b1							
Laboratory Operations	4c1							
Emergency Notification and Public Info								
Initial Alert & Notification	5a1						M	
RESERVED	5a2							
Backup Alert & Notification	5a3							
Exception Area Alerting	5a4							
Subsequent Information & Instructions	5b1						L1	
Support Operations/Facilities								
Reception Center Operations	6a1							
EW Monitoring & Decontamination	6b1							
Congregate Care	6c1							
Contaminated Injured Transport & Care	6d1			M	M			

<p>DATE: 2016-11-16 SITE: Quad Cities Station, IL</p> <p>M: Met, L1: Level 1 Finding, L2: Level 2 Finding, P: Plan Issue, N: Not Demonstrated</p>									
		ROC--Sheriffs-TACP-	ROC-EBS-KQCJ	WHI-IWP---	WHI-EOC----	WHI--Sheriffs-TACP-DCO B	WHI--Sheriffs-TACP-	WHI-EBS-KCLN/MaC	
Emergency Operations Management									
Mobilization	1a1			M	M				
Facilities	1b1								
Direction and Control	1c1				M				
Communications Equipment	1d1	M	M	M	M		M	M	
Equipment and Supplies to Support Operations	1e1	M			M	M	M		
Protective Action Decision Making									
EW Exposure Control Decisions	2a1								
PARs	2b1								
PADs	2b2				M				
PADs for Disabled/Functional Needs	2c1				M				
Ingestion PADs	2d1								
RRR Decisions	2e1								
Protective Action Implementation									
EW Exposure Control Implementation	3a1	M			M	M	M		
KI Public/Institutionalized	3b1				M				
PAD Implementation Disabled/Functional Needs	3c1				M				
PAD Implementation Schools	3c2				M				
TACP Establishment	3d1	M			M		M		
Impediments	3d2				M				
Implement Ingestion PADs	3e1								
Ingestion Pathway Decisions	3e2								
Implementation of RRR Decisions	3f1								
Field Measurement and Analysis									
RESERVED	4a1								
Field Team Management	4a2								
Field Team Operations	4a3								
Field Team Sampling	4b1								
Laboratory Operations	4c1								
Emergency Notification and Public Info									
Initial Alert & Notification	5a1		M		M			M	
RESERVED	5a2								
Backup Alert & Notification	5a3								
Exception Area Alerting	5a4								
Subsequent Information & Instructions	5b1				L1				
Support Operations/Facilities									
Reception Center Operations	6a1								
EW Monitoring & Decontamination	6b1								
Congregate Care	6c1								
Contaminated injured transport and care	6d1								

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SECTION 5: CONCLUSION

This section summarizes the findings from the of the evaluation of all jurisdictions and functional entities that participated in the November 16, 2016, Radiological Emergency Preparedness (REP) Full Participation Plume Exposure Pathway exercise to test the offsite emergency response capabilities of State and local governments in the 10-mile and 50- mile EPZs surrounding the Quad Cities Station.

The exercise resulted in no Level 1 Findings for the State of Illinois. There was one Level 1 Finding for Rock Island County and one Level 1 Finding for Whiteside County.

There were no Level 2 Findings for the State of Illinois, Rock Island County, or Whiteside County.

There was one Plan Issue from a past exercise that was not corrected for Rock Island County. There was one Plan Issue from a past exercise that was not corrected for Whiteside County.



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APPENDIX A: IMPROVEMENT PLAN

This section summarizes the findings from the of the evaluation of all jurisdictions and functional entities that participated in the November 16, 2016, Radiological Emergency Preparedness Partial-Participation Plume Exposure Pathway Exercise to test the offsite emergency response capabilities of State and local governments in the 10-mile EPZ surrounding the Quad Cities Station, recommended corrective actions, and a schedule of corrective actions for the identified Primary Responsible Agency.

This section summarizes the findings from the of the evaluation of all jurisdictions and functional entities that participated in the November 16, 2016, Radiological Emergency Preparedness Partial-Participation Plume Exposure Pathway Exercise to test the offsite emergency response capabilities of State and local governments in the 10-mile EPZ surrounding the Quad Cities Station, recommended corrective actions, and a schedule of corrective actions for the identified Primary Responsible Agency.

Finding: **Rock Island County EOC** **Criterion: 5.b.1**

CONDITION: Rock Island County Officials did not provide timely and accurate information to the Public. The county did not activate the PNS and issue an EBS or follow-on news release regarding the decision to evacuate. During the Media Briefing, the County PIO provided conflicting and confusing information regarding what different segments of the general population should do.	
RECOMMENDATION: Rock Island County and the State of Illinois should review their plans and procedures, provide training to responders regarding the implementation of plans and procedures, and redemonstrate Criterion 5.b.1 and associated criteria 1.c.1 and 5.a.1 within 120 days of this exercise.	
CORRECTIVE ACTION DESCRIPTION: Redemonstration was successfully conducted on December 21, 2016	
CAPABILITY: Emergency Public Information and Warning	PRIMARY RESPONSIBLE AGENCY: Rock Island County EMA
CAPABILITY ELEMENT:: EOC	START DATE: November 18, 2016
AGENCY POC: Jerry Shirk 309-799-5166	ESTIMATED COMPLETION DATE: December 21, 2016

Finding:**Whiteside County EOC****Criterion: 5.b.1**

CONDITION: Whiteside County Officials did not provide timely and accurate information to the Public. The county did not activate the PNS and issue an EBS or follow-on news release regarding the decision to evacuate. During the Media Briefing, the County PIO provided conflicting and confusing information regarding what different segments of the general population should do.

RECOMMENDATION: Whiteside County and the State of Illinois should review their plans and procedures, provide training to responders regarding the implementation of plans and procedures, and redemonstrate Criterion 5.b.1 and associated criteria 1.c.1 and 5.a.1 within 120 days of this exercise.

CORRECTIVE ACTION DESCRIPTION: Redemonstration was successfully conducted on December 21, 2016.

CAPABILITY: Emergency Public Information and Warning

PRIMARY RESPONSIBLE AGENCY: Whiteside County EMA

CAPABILITY ELEMENT: EOC

START DATE: November 18, 2016

AGENCY POC: Seth Jannsen 815-772-4044

COMPLETION DATE: December 21, 2016



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APPENDIX B: EXERCISE TIMELINE

Table B-1, below, presents the times at which key events and activities occurred during the QCS Radiological Emergency Preparedness, Partial- Participation, Plume Exposure Pathway Exercise conducted on November 16, 2016.



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Table 1 – Exercise Timeline Table
v1.1 - 2016-11-17:0628

DATE AND SITE: November 16, 2016 – Quad Cities Station REPEX	Emergency Classification Level or Event	Time Utility Declared	IL REAC	IL SEOC (Not Evaluated)	Rock Island County	Whiteside County	JIC Springfield (Not Evaluated)		
Unusual Event (end of verification call for ECLs) ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Alert	0809	Not Yet Operational	0824	0839	0841				
Site Area Emergency	0937	0945	0948	1006	1007				
General Emergency	1029	1039	1042	1053	1055				
Release of Radioactive Material Started ²	0937		0948	1006	1007				
Release of Radioactive Material Terminated ³	N/A		N/A	N/A	1007				
Facility Declared Operational ⁴		0851			0913	0939	0913		
Declaration of State/Local Emergency ⁵					N/A	Not Declared			
Exercise Termination		1207	1230	1220	1249				
Early Precautinary Action Decision: ⁶ <The State issued an order to evacuate state parks and hunting areas.>					N/A				
Early Precautinary Action Decision: ⁶ <The State (County) issued a Livestock Advisory: All livestock are to be sheltered and placed on stored feed and water within the 10-mile EPZ.>			1018		?				
Early Precautinary Action Decision: ⁶ <The state issued Air, water and rail traffic within 5/10 miles of OCS restricted.>			1031	1034	?				
Early Precautinary Action Decision: ⁶ <Evacuate Schools and/or Special Populations.>			N/A	1008	NA – No Schools in SA 2 1020 – Morrison SD Release Students				
General Information Message: ⁷ <Public advised of incident at Quad Cities Station>				1019	1004				
Siren Activation: ⁸				1016	1010				
EAS Message: ⁹				1019	Not Performed				
Protective Action Recommendation ¹⁰			1052	1052	1055				
Evacuation of Sub-Areas: ¹¹ 1				1039	1056				
Protective Action Decision: ¹¹ 1				1045	Not Performed				
EAS Message: ⁹				Did Not	Not Performed				
Protective Action Recommendation ¹⁰									
Evacuation of Sub-Areas:									
Protective Action Decision: ¹¹									
Siren Activation: ⁸									
EAS Message: ⁹									

See Page 2 for footnotes

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KI Administration Emergency Workers and Immoblie Populations Decision (SEOC/REAC)/Implementation (UAC/Counties)		Did Not Exceed PAG	Did Not Exceed PAG	Did Not Exceed PAGs		
1	End of verification call is time to be recorded in table. Evaluators should note all times associated with the process, i.e. start of notification call, end of call, start of verification call, and end of verification call. Notification time for UAC is end of verification call with the state; JIC time is as communicated by the state – see note 12.					
2	Note time notified by utility, in REAC record time as announced in REAC if release is noted as occurring prior to notification of utility.					
3	Only noted if release is terminated prior to the termination of the exercise.					
4	Time that the facility manager or designee declares the facility Operational. Evaluators should also note time facility is declared Activated. A facility is considered Activated as soon as notification of an incident is received and the Director/Commissioner/Emergency Management Representative makes the determination to activate the facility. The facility is not considered Operational until it is ready to carry out full emergency operations with key decision makers in place.					
5	Time of local declaration of emergency.					
6	Time of local decision. If the State makes the decision, time is based on state decision and county times should be when county is made aware of decision.					
7	Time that the message to be broadcast to the public is officially approved by appropriate authority					
8	Time is end of demonstration of the process that would result in siren activation (simulated unless otherwise noted in Extent-of-Play)					
9	Time that message is able to be transmitted from the radio station to the public. This time would be based on if radio station can record and broadcast at the same time, or if message needs to be completely transmitted prior to being able to broadcast to the public.					
10	Time that PAR(s) is/are approved or declared by the governing authority. If a facility is not part of the decision-making process, note the time the facility is officially notified of the PAR.					
11	Time that PAD(s) is/are approved or declared by the governing authority. If a facility is not part of the decision-making process, note the time the facility is officially notified of the PAD.					
12	Tracking of times JIC receives information from the State or the counties. The purpose is to track that information being relayed to the JIC. ECL times should be times at which the state communicates the status to the JIC and not necessarily the time the JIC is made aware of the ECL, i.e. not as announced in the JIC/EOF.					

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APPENDIX C: EXERCISE EVALUATION TEAM

The following is a list of the personnel that managed the evaluation process and evaluated the Quad Cities Station Radiological Emergency Preparedness, Full Participation, Plume Exposure Pathway Exercise on November 16, 2016. The organization each of the personnel represents is indicated by the following abbreviations

DHS/FEMA – U.S. Department of Homeland Security/Federal Emergency Management Agency

ICF – ICF International

Exercise Management

MANAGEMENT TITLE	NAME	ORGANIZATION
Regional Assistance Committee, Chair	Sean O'Leary	DHS/FEMA
Exercise Director	Stephen Tulley	DHS/FEMA
Co-Exercise Director	Edward Golinski	DHS/FEMA
Illinois Site Specialist	David Persaud	DHS/FEMA
Team Leader – State of Illinois	David Ortman	DHS/FEMA
Team Leader – Rock Island County	Edward Diaz	DHS/FEMA
Team Leader – Whiteside County	Don Daniel	DHS/FEMA
Regional Coordinator	John Wills	ICF

Exercise Evaluators

LOCATION	EVALUATOR	AGENCY
State Initial Warning Point	Todd Lawson	DHS/FEMA
State Emergency Operations Center	David Ortman(TL) Karl Rabenhorst Todd Lawson	DHS/FEMA DHS/FEMA DHS/FEMA
Radiological Emergency Assessment Center	David Stuenkel	ICF
Joint Information Center	Kim Alahmadi	DHS/FEMA
Radiological Assessment Field Monitoring Teams Demonstration	John Wills	ICF
Unified Area Command	Todd Genskie	DHS/FEMA
State Radiological Advisor – Rock Island County	Edward Diaz (TL)	DHS/FEMA
State Liaison – Rock Island County	Edward Diaz (TL)	DHS/FEMA
State Radiological Advisor – Whiteside County	Don Daniel	DHS/FEMA

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LOCATION	EVALUATOR	AGENCY
State Liaison– Whiteside County	Don Daniel	DHS/FEMA
Unity Point Health/Trinity Medical Center	Todd Gemske	DHS/FEMA
Unity Point Health/Trinity Medical Center Transportation Provider	Marcy Campbell	ICF
Illinois State Police DCO Briefing	Janet Hlavaty-LaPosa	DHS/FEMA
Illinois State Police TACP	Gary Bolender	ICF
Rock Island County IWP	Chris Bellone	DHS/FEMA
Rock Island County EOC	Ed Diaz (TL) Henry Christiansen Jim King Marcy	DHS/FEMA ICF DHS/FEMA ICF
Rock Island County DCO Brief/TACP	Chris Bellone PJ Neid	DHS/FEMA ICF
Rock Island County EAS – 93.9 KQCJ	Gary Bolender	ICF
Whiteside County IWP	Clark Duffy	ICF
Whiteside County EOC	Don Daniel(TL) Carl Bebrich Alvin Blake	DHS/FEMA DHS/FEMA DHS/FEMA
Whiteside County DCO Briefing/TACP	Carl Bebrich	DHS/FEMA ICF
Whiteside County EAS – KCLN/MaC	Janet Hlavaty-LaPosa	DHS/FEMA



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APPENDIX D: ACRONYMS AND ABBREVIATIONS

The following is a list of the acronyms used in this AAR/IP.

ACRONYM	MEANING
ARC	American Red Cross
ACD	Animal Control Division
ARCA	Areas Requiring Corrective Action
CDE	Committed Dose Equivalent
CFR	Code of Federal Regulations
cpm	counts per minute
DCO	Dosimetry Control Officer
DHS	U.S. Department of Homeland Security
DLR	dosimeter of legal record
DRD	Direct-Reading Dosimeters
EAS	Emergency Alert System
ECL	Emergency Classification Level
EMA	Emergency Management Agency
EMAD	Emergency Management Agency Director
EMD	Emergency Management Director
EMS	Emergency Medical Services
EOC	Emergency Operations Center
EOPA	Extent-of-Play Agreement
EPT	Exercise Planning Team
EPZ	Emergency Planning Zone
ERT	Emergency Response Telecommunicators
ESDA	Emergency Services and Disaster Agency
EW	Emergency Worker
FEMA	Federal Emergency Management Agency
GDN	Gamma Detection Network
GE	General Emergency
GEMS	Gaseous Effluent Monitoring System
GM	General Manager
HQ	Headquarters
IDOT	Illinois Department of Transportation
IEMA	Illinois Emergency management Agency
IPRA	Illinois Plan for Radiological Accidents
ISP	Illinois State Police
IWIN	Illinois Wireless Information Network
JIC	Joint Information Center

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ACRONYM	MEANING
KI	potassium iodide
ID	Landauer InLight Systems dosimeter
MDC	Mobile Data Computer
Mrem	millirem
MRT	Medical Radiation Technician
NARS	Nuclear Accident Reporting System
NRC	U.S. Nuclear Regulatory Commission
ORO	Offsite Response Organization(s)
OSLD	Optically Stimulated Luminescence Dosimeter
PAD	Protective Action Decision
PAR	protective action recommendations
PDAFN	Persons with disabilities and access/functional needs
PHA	Public Health Administrator
PIO	Public Information Officer
PPE	Personal Protective Equipment
PRD	Permanent Record Dosimeter
QCS	Quad Cities Station
RAC	Regional Assistance Committee
RACES	Radio Amateur Civil Emergency Service
RAFT	Radiological Assessment Field Team
RDS	Riverdale District School
REA	Radiological Emergency Area
REAC	Radiological Emergency Assessment Center
REP	Radiological Emergency Preparedness
RERP	Radiological Emergency Response Plan
RIC	Rock Island County
RPM	REP Program Manual
RT	Radiation Technologist
SAE	Site Area Emergency
SEOC	State Emergency Operations Center
SIP	Shelter In Place
SIREN	State of Illinois Rapid Electronic Notification
TACP	Traffic and access control posts
TCP	Traffic Control Point
TEDE	Total Effective Dose Equivalent
TLD	Thermoluminescent Dosimeter
UAC	Unified Area Command
UHF	Ultra High Frequency
VHF	Very high frequency
WCHDA	Whiteside County Health Department Administrator
WCSO	Whiteside County Sheriff's Office

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APPENDIX E: EXTENT OF PLAY

This Appendix presents the Extent of Play Agreements and lists the exercise criteria that were scheduled for demonstration in the Quad Cities Station Radiological Emergency Preparedness, Partial Participation, Plume Exposure Pathway Exercise on November 16, 2016, and the offsite extent-of-play agreements accepted by DHS/FEMA Region V on July 11, 2016, August 18, 2016, September 20, 2016, and November 14, 2016. The exercise criteria, contained in the DHS/FEMA P-1028 REP Program Manual, Dated January 2016, represent a functional translation of the planning standards and evaluation criteria of NUREG-0654/FEMA-REP-1, Rev. 1, "Criteria for the Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980. Because the exercise criteria are intended for use at all nuclear power plants sites, and because of variations among offsite plans and procedures, an extent-of-play agreement is prepared by the State and accepted by DHS/FEMA to provide evaluators with guidance on expected actual demonstration of the criteria.

The specific Radiological Emergency Preparedness criteria that were scheduled for demonstration during the exercise are listed in the State of Illinois, Rock Island County, and Whiteside County Extent-of-Play Agreements, which follow.



**STATE OF ILLINOIS EXTENT OF PLAY AGREEMENT
FOR THE
QUAD CITIES STATION EXERCISE**

November 16th, 2016

Criteria that can be re-demonstrated immediately for credit, at the discretion of the evaluator, include the following: 3.a.1, 3.b.1, 3.d.1, 6.a.1, 6.b.1, 6.c.1 and 6.d.1. Criteria that may be re-demonstrated, as approved on a case-by-case basis by the Chairperson of the Regional Assistance Committee, include the following: 2.a.1, 2.b.1, 2.b.2, 3.d.2, 5.a.1 and 5.b.1.

NOTE: If the exercise scenario, or related exercise play, does not prompt specific criteria-related actions, individual criteria may be addressed through a functional interview or alternative scenario-driven task demonstration. When utilized, this process will be done in a manner not to disrupt or interfere with normal exercise play.

EVALUATION AREA 1 - EMERGENCY OPERATIONS MANAGEMENT

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

The State Emergency Operations Center (SEOC), which also houses the IEMA Communications Center (Initial Warning Point), and the Radiological Emergency Assessment Center (REAC), will be activated. The IEMA Emergency Response Telecommunicator will implement procedures for notification of IEMA staff as defined in IEMA SOPs. The SEOC will be partially activated with a number of state agencies and personnel, to the extent necessary to support exercise play and to conduct training. The SEOC will not be evaluated during this exercise. REAC will be fully activated. Rosters will be provided to demonstrate 24-hour staffing of the SEOC and REAC. The evaluator will not be allowed to remove the rosters.

The Unified Area Command (UAC) will be activated at Geneseo (746 W. Main St.); it will not be evaluated but will operate for training purposes and to the extent necessary to support state and county-level exercise play. For training purposes, the Radiological Assessment Field Team (RAFT) Command Center will be staffed at the Geneseo (746 W. Main St.), however will not be evaluated. The mobile lab will also be at Geneseo (746 W. Main St.) but only for training purposes.

IEMA personnel will be prepositioned in the local area and dispatched to the Rock Island County EOC, Whiteside County EOC, UAC, Emergency Operations Facility (EOF), Technical Support Center (TSC) and the Joint Information Center (JIC). A State JIC PIO (only) will be located at the Exelon Warrenville HQ and a State JIC support unit will be located in the SEOC. The State JIC and related JIC support unit will not be evaluated for this exercise.

FEMA will not evaluate the TSC. A rumor control phone bank for public inquiries will not be operated by the State during the exercise. An actual phone call will be made to the FEMA duty officer advising them of the situation at the Quad Cities Station. Follow-up calls to FEMA will be simulated.

The prepositioned State staff will begin exercise play no earlier than the Alert.

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

This criterion will not be evaluated during this exercise.

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

The ability to direct and control emergency response activities will not be evaluated at the SEOC, UAC, JIC Support Unit or the JIC during this exercise. Coordination between the SEOC, the REAC, RAFT Command Center, the UAC, the JIC, JIC support unit, the EOF and the County EOCs will not be evaluated. REAC, however, will be evaluated for both direction and control and coordination with SEOC, UAC, RAFT Command Center, JIC, JIC support unit and EOF as required by exercise play.

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.

IEMA will use a variety of communication systems [Nuclear Accident Reporting System (NARS), telefax, and commercial telephone, and cellular phone, radio] to communicate with other organizations and locations.

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

The State of Illinois will demonstrate the use of equipment, maps and displays to support emergency operations. DCO logs will be available from an IEMA Radiological Advisors in the Rock Island County EOC.

A DCO briefing/traffic and access control (TAC) interview will be conducted by Illinois State Police on November 15th at 9:30 a.m. (confirmed) at the District 1 Headquarters in Sterling. During this event, the availability of dosimetry will be demonstrated.

EVALUATION AREA 2 - PROTECTIVE ACTION DECISION MAKING

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

The ability to make the decision to recommend the use of KI to emergency workers will not be demonstrated in REAC. This criterion was successfully demonstrated by the State in the last Byron exercise.

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.

The REAC will evaluate the licensee information and complete independent dose projections based on that information and simulated field monitoring data. REAC will make an evaluation of the data and make a protective action recommendation (PAR) to the SEOC.

The coordination to determine protective action recommendations (PARs) based upon available shelters, evacuation time estimates and other relevant factors will be demonstrated between the SEOC and REAC.

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). The coordination to determine PARs based upon available shelters, evacuation time estimates and other relevant

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factors may be discussed between the SEOC and REAC, but will not be evaluated. The State PAR will be transmitted to the EPZ counties via NARS.

The capability to determine which centers should be activated for monitoring, decontamination, registration reception and congregate care will be initiated at UAC, with input from the SEOC and REAC to support county-level exercise play, but will not be evaluated.

Criterion 2.c.1: Protective action decisions are made, as appropriate, for groups of people with disabilities and those with access/functional needs.

The coordination to determine PARs based upon available shelters, evacuation time estimates and other relevant factors may be discussed between the SEOC and REAC. The State PAR will be transmitted to the EPZ counties via NARS.

The ability to make the decision to recommend the use of KI to institutionalized persons will be demonstrated in REAC.

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

This criterion will not be demonstrated during this exercise.

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

This criterion will not be demonstrated during this exercise.

EVALUATION AREA 3 - PROTECTIVE ACTION IMPLEMENTATION

Criterion 3.a.1: The OROs issue appropriate dosimetry, KI, and procedures, and manage radiological exposure to emergency workers in accordance with the plan 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. Appropriate record-keeping of the administration of KI for emergency workers is maintained.

This will be demonstrated during the DCO briefing/TAC interview on November 15th at 9:30 a.m. (confirmed), at the ISP District 1 Headquarters in Sterling.

For training purposes, the Radiological Assessment Field Team (RAFT) Command Center will be staffed at the IDOT Yard near Milan (location tentative), however will not be evaluated.

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

This criterion has been successfully demonstrated within the last two years and, as such, will not be demonstrated during this exercise.

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

This criterion does not apply to the State of Illinois.

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

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This criterion does not apply to the State of Illinois.

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

~~This criterion has been demonstrated in the last two years and will not be demonstrated during g this~~
exercise. The Illinois State Police may provide support activities at the UAC, Rock Island County EOC or Whiteside County EOC, but will not be evaluated.

A separate out-of-sequence TAC/DCO interview will be conducted on November 15th at 9:30 a.m. (confirmed) at ISP District 1 Headquarters in Sterling.

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

This criterion has been successfully demonstrated in the last two years and will not be demonstrated during this exercise, however, an impediment may be injected or discussed for training purposes at the UAC.

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.

This criterion will not be demonstrated during this exercise.

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

This criterion will not be demonstrated during this exercise.

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

This criterion will not be demonstrated during this exercise.

EVALUATION AREA 4 - FIELD MEASUREMENT AND ANALYSIS

Criterion 4.a.1: [RESERVED]

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

For training purposes, the Radiological Assessment Field Team (RAFT) Command Center will be staffed at Geneseo (746 W. Main St.), however will not be evaluated.

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.

For training purposes, the Radiological Assessment Field Team (RAFT) Command Center will be staffed at Geneseo (746 W. Main St.), however will not be evaluated. .

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.

This criterion will not be demonstrated during this exercise.

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

This criterion will not be demonstrated during this exercise.

EVALUATION AREA 5 - EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

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

The State's role in demonstrating this criterion is limited to transmitting the State's PAR to the counties and monitoring the instructional messages provided to the public by the counties. This monitoring will be accomplished by IEMA representatives in the County EOCs.

Criterion 5.a.2: [RESERVED]

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

This criterion does not apply to the State of Illinois.

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

This criterion does not apply to the State of Illinois.

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

This will be demonstrated at the JIC in coordination with the SEOC, REAC, UAC and the County EOCs. IEMA personnel will be present at the JIC to coordinate with the Exelon staff. Media briefings will be conducted at the JIC. A livestock advisory will be issued to the media from the JIC or the SEOC when appropriate.

A rumor control phone bank for public inquiries will not be operated by the State during the exercise.

EVALUATION AREA 6 - SUPPORT OPERATION/FACILITIES

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

This criterion may be demonstrated by State and local officials at Rock Island High School, potentially outside the evaluated exercise week. We are currently working with school officials for non-class day availability in potentially spring of 2017.

If scheduled, the following organizations will be represented at the demonstration: local EMA, Police and Fire departments, American Red Cross and IEMA. Set up will begin at (Time TBD) with demonstration beginning approximately (Time TBD). Two portal monitors will be set up during the demonstration. Evacuee monitoring and decontamination will be demonstrated. The appropriate number of evacuees will be processed to meet 20% in 12 hours requirement.

Due to questions of legality, the impounding/confiscating of contaminated vehicles will not be demonstrated.

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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.

For training purposes, the Radiological Assessment Field Team (RAFT) Command Center will be staffed at Geneseo (746 W. Main St.); however will not be evaluated.

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

This criterion may be demonstrated by State and local officials at Rock Island High School, potentially outside the evaluated exercise week. We are currently working with school officials for non-class day availability in potentially spring of 2017.

If scheduled, set up will begin at (Time TBD), with the demonstration beginning approximately (Time TBD). Local organizations responsible for operating a reception and congregate care center will be present to demonstrate this criterion.

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.

This criterion will be demonstrated during a drill at Unity Point Trinity (formerly Trinity – West) in Rock Island on November 15th at 9 a.m. (confirmed).

ROCK ISLAND COUNTY EXTENT OF PLAY AGREEMENT

FOR THE QUAD CITIES STATION EXERCISE

November 16th, 2016

Criteria that can be re-demonstrated immediately for credit, at the discretion of the evaluator, include the following: 3.a.1, 3.b.1, 3.d.1, 6.a.1, 6.b.1, 6.c.1 and 6.d.1. Criteria that may be re-demonstrated, as approved on a case-by-case basis by the Chairperson of the Regional Assistance Committee, include the following: 2.a.1, 2.b.1, 2.b.2, 3.d.2, 5.a.1 and 5.b.1.

NOTE: If the exercise scenario, or related exercise play, does not prompt specific criteria-related actions, individual criteria may be addressed through a functional interview or alternative scenario-driven task demonstration. When utilized, this process will be done in a manner not to disrupt or interfere with normal exercise play.

EVALUATION AREA 1 - EMERGENCY OPERATIONS MANAGEMENT

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

Rock Island County intends to fully activate the Emergency Operations Center (EOC) in Milan, Illinois. The County will implement notification procedures as defined in IPRA-Quad Cities. Representatives from IEMA, and Exelon will staff the County EOC but will not be pre-positioned in the EOC. A roster will be provided to demonstrate 24-hour staffing of the EOC. Evaluators will not be allowed to remove the roster from the EOC.

An evaluator will be positioned at the County Sheriff's Communications Center (initial warning point) at the start of the exercise. The County Sheriff's Communications Center will allow an evaluator to observe and evaluate the initial NARS message. The notification process and personnel call out will occur at the Rock Island County EOC utilizing the county Group Cast system.

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

This criterion will not be evaluated during this exercise.

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.

Decision making will be demonstrated at the Rock Island County EOC. Coordination of decisions and emergency activities will be demonstrated between Rock Island County, the SIRC, the UAC, the JIC support unit at the SEOC, and between the County and municipalities within the EPZ. Coordination between Rock Island County and Whiteside County will be demonstrated.

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.

Rock Island County will use NARS, commercial telephone, radio and telefax to communicate with departments and agencies at other locations.

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

Rock Island County will demonstrate the ability to support operations through the use of maps, status boards and other displays as appropriate. DCO logs will be available from the IEMA Radiological Advisor in the County EOC. The availability of dosimetry and KI will be demonstrated at the County EOC and during the traffic and access control (TAC) demonstration. The DCO briefing for the deputy demonstrating traffic and access control will be conducted at the Rock Island EOC facility during the exercise, but may be demonstrated out of the exercise scenario or timeline.

EVALUATION AREA 2 - PROTECTIVE ACTION DECISION MAKING

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

This criterion does not apply to Rock Island County.

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.

This criterion does not apply to Rock Island County.

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).

The State of Illinois will make protective action recommendations (PARs) to Rock Island County officials in the County EOC. The Rock Island County officials will make the final decision regarding what protective actions will be recommended to the public.

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Criterion 2.c.1: Protective action decisions are made, as appropriate, for groups of people with disabilities and those with access/functional needs.

The State of Illinois will make PARs to Rock Island County officials in the County EOC. The Rock Island County officials will make the final decision regarding protective actions for groups of people with disabilities and those with access/functional needs.

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

This criterion does not apply to Rock Island County.

Criterion 2.e.1: Timely post-plume phase re-location, re-entry and return decisions are made and coordinated as appropriate, based on assessments of the radiological conditions and criteria in the OROs plan and/or procedures.

This criterion will not be demonstrated during this exercise.

EVALUATION AREA 3 - PROTECTIVE ACTION IMPLEMENTATION

Criterion 3.a.1: The OROs issue appropriate dosimetry, KI, and procedures, and manage radiological exposure to emergency workers in accordance with the plan 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. Appropriate record-keeping of the administration of KI for emergency workers is maintained.

Rock Island County will demonstrate this criterion through coordination with the IEMA Radiological Advisor and timely dissemination and exchange of information within the Dosimetry Control Officer network. Exercise messages will be injected which will ensure the opportunity to demonstrate this criterion in the County EOC.

The DCO briefing for the Sheriff's deputy demonstrating traffic and access control will be conducted in the county EOC during the exercise.

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

When notified by the State of Illinois to distribute and administer KI, Rock Island County officials will discuss the issuance of KI to immobile populations, as a voluntary measure, and will notify the municipalities of the State's recommendation, as appropriate.

The State of Illinois does not recommend the use of KI by the general public and, as such, that portion of the criterion will not be demonstrated.

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

This will be demonstrated by Rock Island County through the simulated implementation of the appropriate procedures. The appropriate officials will coordinate transportation and receiving facilities for people with disabilities and those with access/functional needs other than schools within areas subject to protective actions. One of each type of special facility will be contacted during the exercise. One of each type of transportation provider (ambulance/bus) will be contacted during the exercise. The public will not be involved in the

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demonstration.

The Mobility Impaired List will be available for inspection in the County EOC during the exercise. The evaluator will not be allowed to remove the list from the EOC.

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

Rock Island County officials will demonstrate this capability through the simulated implementation of the appropriate procedures in the County EOC. The EPZ schools and transportation providers will be contacted during the exercise.

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

Coordination between Rock Island County agencies designated to provide traffic and access control will be exhibited in the County EOC. For the demonstration, a post will be selected by Rock Island County or the exercise controller during the exercise based on exercise play. A deputy will not be asked to drive to the selected post location for the demonstration, but will provide adequate information to the evaluator to describe the process of staffing the selected post. The staffing of the remaining posts will be simulated.

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

The Rock Island County EOC staff will demonstrate the capability to identify and take appropriate actions concerning impediments to evacuation. A message may be injected by the Controller that will drive this demonstration. County personnel will deal with the impediment by identifying the equipment needed, discussing its estimated time of arrival, etc.

Actual contacts with resource providers will be made and logged, as appropriate. The impediment information will also be coordinated into public messaging (i.e., via media briefing, notifying the JIC, etc.) to communicate alternative routes to potential evacuees.

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.

This criterion does not apply to Rock Island County.

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.

This criterion does not apply to Rock Island County.

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

This criterion will not be demonstrated during this exercise.

EVALUATION AREA 4 - FIELD MEASUREMENT AND ANALYSIS

This evaluation area does not apply to Rock Island County.

EVALUATION AREA 5 - EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

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

Rock Island County will demonstrate the capability to provide both an alert signal and an initial instructional message to populated areas throughout their portion of the 10-mile plume pathway EPZ in a timely manner after their decision to activate the alert and notification system to implement protective action recommendations (PARs).

This capability will be demonstrated through the simulated activation of the Quad Cities Station EPZ Prompt Notification System as defined in IPRA-Quad Cities. The Prompt Notification System (outdoor warning sirens) will not be activated during the exercise, but the task will be demonstrated (simulated) through an interview at the communication center during the exercise (may occur out-of-sequence to exercise play).

The ability to provide instructions to the public will be demonstrated through the simulated activation of the local radio station (KQCJ) at their facility in Kewanee (133 E. Division). The local radio station will be contacted during the first, and possibly the second, alert and notification sequence. An evaluator and a controller will be positioned at the radio station during the exercise to monitor for a message containing a PAR. If the initial message does not contain a PAR, the evaluator and controller will stay at the radio station for the second message.

Coordination between Rock Island County and Whiteside County will be demonstrated.

Criterion 5.a.2: [RESERVED]

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

This criterion does not apply to Rock Island County.

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

This criteria does not apply to Rock Island County.

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

Rock Island County will demonstrate this criterion by using pre-scripted messages as indicated in IPRA-Quad Cities. Contact with the radio station will be simulated for each alert and notification sequence following the sequence issuing the initial PAR.

The ability to provide information to the media will be demonstrated by Rock Island County through a briefing held at the Rock Island County media briefing location. If real media are not present for the briefing, the controller and observers will serve as mock media. Evaluators will not serve as mock media.

The ability to deal with rumors will be demonstrated by Rock Island County through coordination between the County EOC and the JIC support unit at the SEOC. The Rock Island County EOC controller will inject exercise messages which will ensure the opportunity to demonstrate this criterion. County officials will investigate and address "rumors." If appropriate, the "rumors" will be coordinated between State and County officials in the

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~~County EOC and the JIC support unit at the SEOC.~~

County emergency broadcast messages and news releases, if issued, will be communicated to the JIC support unit at the SEOC.

EVALUATION AREA 6 - SUPPORT OPERATION/FACILITIES

This evaluation area does not apply to Rock Island County.

**WHITESIDE COUNTY EXTENT OF PLAY AGREEMENT
FOR THE
QUAD CITIES STATION EXERCISE
November 16th, 2016**

Criteria that can be re-demonstrated immediately for credit, at the discretion of the evaluator, include the following: 3.a.1, 3.b.1, 3.d.1, 6.a.1, 6.b.1, 6.c.1 and 6.d.1. Criteria that may be re-demonstrated, as approved on a case-by-case basis by the Chairperson of the Regional Assistance Committee, include the following: 2.a.1, 2.b.1, 2.b.2, 3.d.2, 5.a.1 and 5.b.1.

NOTE: If the exercise scenario, or related exercise play, does not prompt specific criteria-related actions, individual criteria may be addressed through a functional interview or alternative scenario-driven task demonstration. When utilized, this process will be done in a manner not to disrupt or interfere with normal exercise play.

EVALUATION AREA 1 - EMERGENCY OPERATIONS MANAGEMENT

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

Whiteside County intends to fully activate the Emergency Operations Center (EOC) in Morrison, Illinois. The County will implement notification procedures as defined in IPRA-Quad Cities. Representatives from IEMA, and Exelon will staff the County EOC but will not be pre-positioned in the EOC. A roster will be provided to demonstrate 24-hour staffing of the EOC. Evaluators will not be allowed to remove the roster from the EOC.

An evaluator will be positioned at the County Sheriff's Communications Center (initial warning point) at the start of the exercise.

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

This criterion will not be evaluated during this exercise.

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.

Decision making will be demonstrated at the Whiteside County EOC. Coordination of decisions and emergency activities will be demonstrated between Whiteside County, the SIRC, the UAC, the JIC support unit at the SEOC, and between the County and Albany. Coordination between Whiteside County and Rock Island County will be demonstrated.

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.

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~~Whiteside County will use NARS, commercial telephone, radio and telefax to communicate with departments and agencies at other locations.~~

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

Whiteside County will demonstrate the ability to support operations through the use of maps, status boards and other displays as appropriate. DCO logs will be available from the IEMA Radiological Advisor in the County EOC. The availability of dosimetry and KI will be demonstrated at the County EOC and during the traffic and access control (TAC) demonstration. The DCO briefing for the deputy demonstrating traffic and access control will be conducted at the Whiteside County EOC during the exercise.

EVALUATION AREA 2 - PROTECTIVE ACTION DECISION MAKING

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

This criterion does not apply to Whiteside County.

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.

This criterion does not apply to Whiteside County.

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).

The State of Illinois will make protective action recommendations (PARs) to Whiteside County officials in the County EOC. The Whiteside County officials will make the final decision regarding what protective actions will be recommended to the public.

Criterion 2.c.1: Protective action decisions are made, as appropriate, for groups of people with disabilities and those with access/functional needs.

The State of Illinois will make PARs to Whiteside County officials in the County EOC. The Whiteside County officials will make the final decision regarding protective actions recommended for groups of people with disabilities and those with access/functional needs.

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

This criterion does not apply to Whiteside County.

Criterion 2.e.1: Timely post-plume phase re-location, re-entry and return decisions are made and coordinated as appropriate, based on assessments of the radiological conditions and criterion the OROs plan and/or procedures.

This criterion will not be demonstrated during this exercise.

EVALUATION AREA 3 - PROTECTIVE ACTION IMPLEMENTATION

Criterion 3.a.1: The OROs issue appropriate dosimetry, KI, and procedures, and manage radiological exposure to

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~~emergency workers in accordance with the plan 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. Appropriate record-keeping of the administration of KI for emergency workers is maintained.~~

Whiteside County will demonstrate this criterion through coordination with the IEMA Radiological Advisor and timely dissemination and exchange of information within the Dosimetry Control Officer network. Exercise messages may be injected which will ensure the opportunity to demonstrate this criterion in the County EOC.

This criterion will also be demonstrated during the (TAC) demonstration. The DCO briefing for the Sheriff's deputy demonstrating traffic and access control will be conducted at the Whiteside County EOC during the exercise but may be demonstrated out-of-sequence to exercise play.

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

When notified by the State of Illinois to distribute and administer KI, Whiteside County officials will discuss the issuance of KI and immobile populations, as a voluntary measure, and will notify Albany officials of the State's recommendation, as appropriate.

The State of Illinois does not recommend the use of KI by the general public and, as such, that portion of the criterion will not be demonstrated.

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

This will be demonstrated by Whiteside County through the simulated implementation of the appropriate procedures. The appropriate officials will coordinate transportation and receiving facilities for people with disabilities and those with access/functional needs other than schools within areas subject to protective actions. One of each type of special facility will be contacted during the exercise. One of each type of transportation provider (ambulance/bus) will be contacted during the exercise. The public will not be involved in the demonstration.

The Mobility Impaired List will be available for inspection in the County EOC during the exercise. The evaluator will not be allowed to remove the list from the EOC.

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

This criterion will be demonstrated in the Whiteside County EOC.

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

Coordination between Whiteside County agencies designated to provide traffic and access control will be exhibited in the County EOC. For the demonstration, a post will be selected by Whiteside County or the exercise controller during the exercise based on exercise play. A deputy will not be asked to drive to the selected post location for the demonstration, but will provide adequate information to the evaluator to describe the process of staffing the selected post. The staffing of the remaining posts will be simulated.

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

The Whiteside County EOC staff will demonstrate the capability to identify and take appropriate actions concerning impediments to evacuation. A message may be injected by the Controller that will drive this demonstration. County personnel will deal with the impediment by identifying the equipment needed, discussing

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its estimated time of arrival, etc. Actual contacts with resource providers will be made and logged, as appropriate. The impediment information will also be coordinated into public messaging (i.e., via media briefing, notifying the JIC, etc.) to communicate alternative routes to potential evacuees.

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.

This criterion does not apply to Whiteside County.

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.

This criterion does not apply to Whiteside County.

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

This criterion will not be demonstrated during this exercise.

EVALUATION AREA 4 - FIELD MEASUREMENT AND ANALYSIS

This evaluation area does not apply to Whiteside County.

EVALUATION AREA 5 - EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

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

Whiteside County will demonstrate the capability to provide both an alert signal and an initial instructional message to populated areas throughout their portion of the 10-mile plume pathway EPZ in a timely manner after their decision to activate the alert and notification system to implement PARs.

This capability will be demonstrated through the simulated activation of the Quad Cities Station EPZ Prompt Notification System as defined in IPRA-Quad Cities. The Prompt Notification System (outdoor warning sirens) will not be activated during the exercise, but the task will be demonstrated (simulated) through an interview at the communication center during the exercise (may occur out-of-sequence to exercise play).

The ability to provide instructions to the public will be demonstrated through the simulated activation of the local radio station (KCLN/MaC) in Clinton, Iowa. The local radio station will be contacted during the first, and possibly the second, alert and notification sequence. An evaluator and controller will be positioned at the radio station during the exercise to monitor the messages. If the initial message does not contain a protective action recommendation, the evaluator and controller will stay at the radio station for the second message.

Coordination between Whiteside County and Rock Island County will be demonstrated.

Criterion 5.a.2: [RESERVED]

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

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~~This criterion does not apply to Whiteside County.~~

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

This criterion does not apply to Whiteside County.

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

Whiteside County will demonstrate this criterion by using pre-scripted messages as indicated in IPRA-Quad Cities. Contact with the radio station will be simulated for each alert and notification sequence following the sequence issuing the initial PAR.

The ability to provide information to the media will be demonstrated by Whiteside County through a briefing held at the Whiteside County media briefing location. If real media are not present for the briefing, the controller and observers will serve as mock media. Evaluators will not serve as mock media.

The ability to deal with rumors will be demonstrated by Whiteside County through coordination between the County EOC and the JIC support unit at the SEOC. The Whiteside County EOC controller will inject exercise messages which will ensure the opportunity to demonstrate this criterion. County officials will investigate and address "rumors." If appropriate, the "rumors" will be coordinated between State and County officials in the County EOC and the JIC support unit at the SEOC.

County emergency broadcast messages and news releases, if issued, will be communicated to the JIC support unit at the SEOC.

EVALUATION AREA 6 - SUPPORT OPERATION/FACILITIES

This evaluation area does not apply to Whiteside County.

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APPENDIX F: SCENARIO TIMELINE

This Appendix presents the Off-Site Scenario Timelines for the State of Illinois, Rock Island County, and Whiteside County that drove the Quad Cities Station Radiological Emergency Preparedness, Full Participation, Plume Exposure Pathway Exercise conducted on November 16, 2016. The timelines include both On-Site events and comments and expected Off-Site response actions.



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OFFSITE EXERCISE TIMELINE

November 16, 2016

<u>Approx. Time</u>	<u>Event/Anticipated Response</u>
0755	Initial conditions/weather forecast message to players.
0820	An Alert is declared at Quad Cities Station.
0835	<p>Exelon notifies the IEMA Telecommunicator of the ALERT via NARS.</p> <p>IEMA Telecommunicator verifies the NARS message.</p> <p>An IEMA Duty Officer contacts the Quad Cities Station Shift Engineer.</p> <p>IEMA Telecommunicator notifies IEMA personnel of the ALERT per SOP.</p> <p>IEMA may activate the State Emergency Operation Center (SEOC) and Radiological Emergency Assessment Center (REAC), if appropriate.</p> <p>IEMA may dispatch liaisons to the County EOCs, Unified Area Command (UAC), Radiological Assessment Field Team (RAFT) Staging Area, Joint Information Center (JIC), Technical Support Center (TSC) and Emergency Operations Facility (EOF), if appropriate.</p> <p>IEMA notifies Governor's Office of the ALERT.</p> <p>IEMA Telecommunicator notifies appropriate State agencies of the ALERT.</p> <p>IEMA notifies FEMA of the ALERT.</p>
0850	<p>IEMA Telecommunicator notifies EPZ counties of the ALERT via NARS.</p> <p>County telecommunicators complete and verify the NARS message.</p> <p>County telecommunicators notify county officials and municipalities of the ALERT per SOP.</p> <p>Municipal telecommunicators complete and verify the NARS message.</p> <p>Municipal telecommunicators notify officials of the ALERT per SOP.</p> <p>The counties and municipalities may activate the EOCs, if appropriate.</p>

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<u>Approx. Time</u>	<u>Event/Anticipated Response</u>
0940	A SITE AREA EMERGENCY is declared at Quad Cities Station.
0955	Exelon notifies the IEMA Telecommunicator of the SITE AREA EMERGENCY via NARS. IEMA Telecommunicator verifies the NARS message. REAC contacts the Quad Cities Station Shift Engineer. SEOC is activated if not previously activated. SEOC notifies the Governor's Office and requests that a representative report to the State EOC. (Simulated) State dispatches liaisons to the County EOCs, UAC, RAFT, JIC, TSC and EOF, if not previously dispatched. SEOC notifies FEMA of conditions. (Simulated) IEMA notifies State agencies - Illinois State Police - IDOT/Division of Highways - IDOT/Division of Aeronautics - IDNR - Illinois National Guard - ICC - American Red Cross - IDPH - IEPA - IDOC - IDHS - IDOA - Office of the State Fire Marshal - others as appropriate REAC contacts Federal agencies. (Simulated) REAC provides an update to the SEOC and County EOC Liaisons. REAC provides an update to the JIC.
1010	IEMA notifies EPZ counties of the SITE AREA EMERGENCY via NARS. County telecommunicators complete and verify the NARS message.

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<u>Approx. Time</u>	<u>Event/Anticipated Response</u>
	County telecommunicators notify County officials and municipalities of the SITE AREA EMERGENCY per SOP.
	Counties implement public notification procedures, if appropriate. (Simulated)
	Municipal telecommunicators complete and verify the NARS message.
	Municipal telecommunicators notify officials per SOP.
	County and municipal EOCs are activated if not previously activated.
	Dosimetry is issued to emergency personnel, EOC staff and exposure records are completed.
1045	A GENERAL EMERGENCY is declared at Quad Cities Station.
1100	Exelon notifies the IEMA Telecommunicator of the GENERAL EMERGENCY via NARS. Protective actions are recommended.
	IEMA Telecommunicator verifies the NARS message.
	The SEOC and REAC evaluate the protective action recommendation.
	A recommendation is made to the Governor. The Governor recommends that protective actions be implemented.
	SEOC staff is advised of the situation.
	SEOC advises UAC, the County EOC liaisons and JIC staff of the situation.
	SEOC notifies FEMA of conditions. (Simulated)
	REAC provides an update to the SEOC and County EOC liaisons.
	REAC provides an update to the JIC.
1115	SEOC notifies EPZ counties of the GENERAL EMERGENCY and the recommended protective actions via NARS.
	County telecommunicators complete and verify the NARS message.
	County telecommunicators notify county officials and municipalities per SOP.

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<u>Approx. Time</u>	<u>Event/Anticipated Response</u>
	Counties implement public notification procedures and traffic and access control per SOPs, as applicable.
	Municipal telecommunicators complete and verify and the NARS message.
	Municipal telecommunicators notify EOC staff.
1200	Terminate exercise play.

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