



LaSalle County Station

After Action Report/ Improvement Plan

Exercise Date - July 28, 2010

Radiological Emergency Preparedness (REP) Program



FEMA

Published October 08, 2010

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EXECUTIVE SUMMARY

On July 28, 2010, a Radiological Emergency Preparedness (REP) Partial Participation Plume Exposure Pathway Exercise evaluation was conducted by the U.S. Department of Homeland Security (DHS)/Federal Emergency Management Agency (FEMA) for the 10-mile Emergency Planning Zone (EPZ) around the LaSalle County Station (LCS). The purpose of the exercise was to assess the level of State and local preparedness in responding to a radiological emergency. This exercise was held in accordance with DHS/FEMA's 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 April 20, 2008. The qualifying emergency preparedness exercise was conducted on December 4, 1980.

DHS/FEMA wishes to acknowledge the efforts of the many individuals who participated in this exercise. In the State of Illinois, the counties of Grundy and LaSalle participated along with State Government.

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 the participants were evident during this exercise.

This Final Report contains the evaluation of the biennial exercise and the evaluation of the following out-of-sequence interviews and activities:

- Illinois State Police (ISP) District 17 Headquarters Dosimetry Control Officers Briefing
- ISP Traffic and Access Control Post at the ISP District 17 Headquarters
- Medical Services Transportation and Hospital evaluation at the Ottawa Hospital
- Protective Actions for Schools (EV-2) for the Marseilles School District #150.

Except where noted in this report, the State and local organizations demonstrated knowledge of and adequately implemented their emergency response plans and procedures.

INTRODUCTION - 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;
 - 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 DHS/FEMA.

Formal submission of the RERPs for the LaSalle County 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 July 28, 2010, 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 health and safety during a radiological emergency involving the LaSalle 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 Chairperson, 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;
- FEMA-REP-14, "Radiological Emergency Preparedness Exercise Manual," September 1991; and
- FEMA "Radiological Emergency Preparedness: Exercise Evaluation Methodology; Notice" as published in the Federal Register Notice, Vol. 67, No. 80, dated April 25, 2002.

Section 1 of this report, entitled "Exercise Overview", presents information pertaining to the team that planned and coordinated the exercise. This section also provides listing of all participating jurisdictions and functional entities that were evaluated.

Section 2 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 3 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 Deficiencies and ARCAs (if any) assessed during this exercise, recommended corrective actions, and the State and local governments' schedule of corrective actions, if applicable, for each identified exercise issue; and (2) descriptions of unresolved ARCAs assessed during previous exercises and the status of the OROs' efforts to resolve them.

Section 4 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.

EMERGENCY PLANNING ZONE (EPZ) DESCRIPTION

The LaSalle County Station, Units 1 and 2, is located on a 3,060-acre site in Brookfield Township, four miles west of the LaSalle and Grundy Counties line. It is located in the northeastern portion of Illinois, approximately seven miles south-southeast of the community of Marseilles, four and one-half miles south of the Illinois River, which runs east-west through LaSalle County and six miles southwest of the community of Seneca. The 10-mile plume extends outward in all directions from the LaSalle County Station and impacts portions of LaSalle and Grundy Counties. This EPZ includes the municipalities of Grand Ridge, Marseilles, Ransom and Seneca in LaSalle County, and Kinsman and Verona in Grundy County.

The population distribution in this 10-mile EPZ is relatively low. Following is a list of the six largest communities in the area and their respective year 2000 population figures: Grand Ridge (546), Kinsman (109), Marseilles (4,655), Ransom (409), Seneca (2,053) and Verona (257). The year 2000 total population for these communities was 8,029 persons. The 10-mile EPZ is divided into 13 Sub-Areas. Following is a list of the Sub-Areas with their associated year 2000 permanent resident population: Sub-Area 1 (936), Sub-Area 2 (70), Sub-Area 3 (665), Sub-Area 4 (3,225), Sub-Area 5 (568), Sub-Area 6 (150), Sub-Area 7 (725), Sub-Area 8 (1,000), Sub-Area 9 (269), Sub-Area 10 (7,250), Sub-Area 11 (4,900), Sub-Area 13 (638) and Sub-Area 17 (314).

Primary land use around the LaSalle County Station is agricultural, with crops of corn and soybean. The closest industries are located in the communities of Marseilles and Seneca. Recreational facilities outside the municipalities include a 60-acre park with camping facilities on the southwest shore of the 2,058-acre cooling lake for the LaSalle County Station. The cooling lake, which occupies over two thirds of the 3,060 acre station site, has recreational boating and fishing. Seneca area marinas have facilities for over 400 boats on the Illinois River, and are just over four miles north-northeast of the LaSalle County Station. Five and one-half miles north-northwest of the Station is the 510-acre Illini State Park with camping, boating, picnicking and fishing.

Major transportation facilities in the LaSalle County Station EPZ are limited to Interstate 80, nine miles north of the Station and the Illinois Waterway, four and one-half miles north of the LaSalle County Station. Marseilles Lock and Dam, at river mile 244.5, is seven miles northwest. Five rail lines also run through the LaSalle County Station EPZ. Their location in the EPZ is described in relationship to the LaSalle County Station as follows: The Burlington Northern and Santa Fe Railway Company has two rail lines, a spur line into the Station from Ransom and the other line six miles from the Station running northeast to southwest; the CSX Transportation, Inc. line is five miles north, the Illinois Rail Net line is nine miles west, and the Norfolk Southern line is ten miles to the south just outside of the EPZ.

SECTION 1: EXERCISE OVERVIEW

1.1 Exercise Details

Exercise Name

LaSalle County Station

Type of Exercise

Plume

Exercise Date

July 28, 2010

Program

Department of Homeland Security/FEMA Radiological Emergency Preparedness
Program

Scenario Type

Radiological Emergency

1.2 Exercise Planning Team Leadership

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1.3 Participating Organizations

Agencies and organizations of the following jurisdictions participated in the LaSalle County Station exercise:

State Jurisdictions

- Central Management Services
- Illinois Commerce Commission
- Illinois Department of Natural Resources
- Illinois Department of Transportation
- Illinois Emergency Management Agency
- Illinois Emergency Management Agency Division of Nuclear Safety
- Illinois Law Enforcement Alarm System
- Illinois National Guard
- Illinois State Police
- Mutual Aid Box Alarm System
- Office of State Fire Marshal

Risk Jurisdictions

- Brookfield Township
- City of Marseilles
- City of Seneca
- Division of Nuclear Safety
- Grundy County Emergency Management Agency
- Grundy County
- Grundy County Board Chairperson
- Grundy County Highway Department
- Grundy County Sheriff's Department
- Illinois Emergency Management Agency

LaSalle County

LaSalle County Animal Response Team

LaSalle County Board Representative

LaSalle County Emergency Management Agency

LaSalle County Health Department

LaSalle County Highway Department

LaSalle County Radio Amateur Civil Emergency Services

LaSalle County Regional Office of Education

LaSalle County Sheriff's Office

Marseilles Elementary School District #150

Minooka Police Department

Morris Hospital Representative

Ottawa Fire Department

Verona ESDA

WCMY/WRKX Radio

Private Organizations

American Red Cross

Exelon Nuclear

SECTION 2: EXERCISE DESIGN SUMMARY

2.1 Exercise Purpose and Design

The DHS/FEMA Region V Office evaluated the LaSalle County Station (LCS) Radiological Emergency Preparedness (REP) Partial Participation Plume Exposure Pathway Exercise conducted on July 28, 2010, to assess the capabilities of local emergency preparedness organizations in implementing their Radiological Emergency Response Plans (RERP) and procedures to protect the public health and safety during a radiological emergency involving the LCS. The purpose of this report is to present the results and findings on the performance of the Offsite Response Organizations (OROs) during a simulated radiological emergency.

2.2 Exercise Objectives, Capabilities and Activities

Exercise objectives and identified Capabilities/REP Criteria selected to be demonstrated are discussed in Appendix F “Exercise Plan.”

2.3 Scenario Summary

Appendix G “Scenario Details,” contains a summary of the Exercise Scenario, a simulated sequence of events that was used as the basis for invoking emergency response actions by Offsite Response Organizations (OROs) in the LaSalle County (LCS) Station REP Partial Participation Plume Exposure Pathway exercise on July 28, 2010.

This exercise scenario was submitted by the State of Illinois and Exelon Nuclear and accepted by DHS/FEMA Region V on July 7, 2009.

During the exercise, in addition to information and data provided through the LCS 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.

The details of the scenario are included in Appendix G “Scenario Details.”

SECTION 3: ANALYSIS OF CAPABILITIES

3.1 Exercise Evaluation and Results

Contained in this section are the results and findings of the evaluation of all jurisdictions and functional entities that participated in the July 28, 2010, REP Partial Participation Plume Exposure Pathway Exercise conducted to test the offsite emergency response capabilities of State and local governments in the EPZ surrounding the LaSalle County Station.

Each jurisdiction and functional entity was evaluated based on its demonstration of exercise criteria delineated in Federal Register Notice: Vol. 67, No. 80, dated April 25, 2002. Detailed information on the exercise criteria and the extent-of-play agreements used in this exercise are found in Appendix F “Exercise Plan” of this report.

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 Offsite Response Organization (ORO) demonstrated all demonstration criteria for the Evaluation Area Criterion to the level required in the extent-of-play agreement with no Deficiencies or ARCAs assessed in the current exercise and no unresolved prior ARCAs.
- D – Deficiency: 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.
- A – Area Requiring Corrective Action (ARCA) – 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 one or more ARCAs was/were assessed during the current exercise or ARCAs assessed during prior exercises remain unresolved. Included is a description of any ARCAs 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 ARCAs - Resolved – Descriptions of ARCAs assessed during previous exercises that were resolved and the corrective actions demonstrated, in this exercise.
 - Prior ARCAs - Unresolved – Descriptions of ARCAs assessed during prior exercises that were not resolved in this exercise. Included is the reason the ARCA remains unresolved and recommended corrective actions to be demonstrated before or during the next exercise.

3.2 Summary Results of Exercise Evaluation

The matrix presented in Table 3.1, on the following pages, presents the status of all exercise criteria from Federal Register Notice: Vol. 67, No. 80, dated April 25, 2002, which were scheduled for demonstration during this exercise by all participating jurisdictions and functional entities. The criterion status box is blank if it was not scheduled for demonstration.

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

The DHS has developed a standardized system for numbering exercise issues. This system is used to achieve consistency in numbering exercise issues among DHS 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 Deficiencies, ARCAs, 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 (13 for LaSalle County Station).
- Exercise Year – The last two digits of the year the exercise was conducted.

- **Criterion Number** – An alpha and two-digit number corresponding to the criteria numbers in the six Exercise Evaluation Areas described in Federal Register Notice, Vol. 67, No. 80, dated April 25, 2002, which amends FEMA-REP 14, Radiological Emergency Preparedness Exercise Manual.
- **Issue Classification Identifier** – (D = Deficiency, A = ARCA, P = Plan Issue).
- **Exercise Identification Number** – A separate two or three-digit indexing number assigned to each issue identified in the exercise.

Table 3.1 - Summary of Exercise Evaluation (2 pages)

<p align="center">DATE: 2010-07-28 SITE: LaSalle County Station, IL</p> <p align="center">M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated</p>		IL - IWP	IL - SIRC	IL - REAC	IL - UAC	IL - JIC	IL - JIC/MBC	IL - EOF	IL-EOC LAS-SL	IL-EOC LAS SRA	IL-EOC GRU--IL/SL-	IL-EOC GRU--IL/SRA-	IL-ISP D#17 HQ-DCO B
Emergency Operations Management													
Mobilization	1a1	M	M	M	M	M		M		M		M	
Facilities	1b1												
Direction and Control	1c1		M	M	M	M		M		M		M	
Communications Equipment	1d1	M	M	M	M	M			M	M	M	M	
Equipment and Supplies to Support Operations	1e1		M	M	M	M		M					M
Protective Action Decision Making													
EW Exposure Control Decisions	2a1		M	P						M		M	
PARs	2b1		M	M									
PADs	2b2		M	M	M								
PADs for Disabled/Functional Needs	2c1		M	M									
Ingestion PADs	2d1												
RRR Decisions	2e1												
Protective Action Implementation													
EW Exposure Control Implementation	3a1									M		M	M
KI Public/Institutionalized	3b1												M
PAD Implementation Disabled/Functional Needs	3c1												
PAD Implementation Schools	3c2												
TACP Establishment	3d1				M								
Impediments	3d2				M								
Implement Ingestion PADs	3e1												
Coordination of RRR Decisions	3e2												
Coordination 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	M	M	
RESERVED	5a2												
Backup Alert & Notification	5a3												
Exception Area Alerting	5a4												
Subsequent Information & Instructions	5b1		M	P	N	M	M		M			M	
Support Operations/Facilities													
Reception Center Operations	6a1												
EW Monitoring & Decontamination	6b1												
Congregate Care	6c1												
Contaminated Injured Transport & Care	6d1												

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

<p style="text-align: center;">DATE: 2010-07-28 SITE: LaSalle County Station, IL M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated</p>			IL-ISP D#17 HQ-TACP	IL-Ottawa FD Amb-MSIT	IL-Ottawa CH-MSIF	LAS - IWP	LAS - EOC	LAS-EOC-TACP	LAS-EBS-WCMY/WRKX	LAS-Marseilles ES-EV2	GRU-IWP---	GRU-EOC---	GRU-EBS-WCSJ/WJDK---
Emergency Operations Management													
Mobilization	1a1					M	M				M	M	
Facilities	1b1						M						
Direction and Control	1c1						M					M	
Communications Equipment	1d1		M	M	M	M	M	M		M	M	M	
Equipment and Supplies to Support Operations	1e1	M		M		M	M		M		M		
Protective Action Decision Making													
EW Exposure Control Decisions	2a1												
PARs	2b1												
PADs	2b2						M					M	
PADs for Disabled/Functional Needs	2c1						M					M	
Ingestion PADs	2d1												
RRR Decisions	2e1												
Protective Action Implementation													
EW Exposure Control Implementation	3a1	M	M	M		M	M		M		M		
KI Public/Institutionalized	3b1	M				M	M		M		M		
PAD Implementation Disabled/Functional Needs	3c1					M						M	
PAD Implementation Schools	3c2					M			M			M	
TACP Establishment	3d1	M				M	M						
Impediments	3d2						M					M	
Implement Ingestion PADs	3e1												
Coordination of RRR Decisions	3e2												
Coordination 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	M
RESERVED	5a2												
Backup Alert & Notification	5a3												
Exception Area Alerting	5a4												
Subsequent Information & Instructions	5b1						M					M	
Support Operations/Facilities													
Reception Center Operations	6a1												
EW Monitoring & Decontamination	6b1												
Congregate Care	6c1												
Contaminated Injured Transport & Care	6d1		M	M									

3.3 Criteria Evaluation Summaries

3.3.1 Illinois Jurisdictions

3.3.1.1 State of Illinois - Initial Warning Point

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

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

3.3.1.2 State of Illinois - State of Illinois Response Center

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

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

3.3.1.3 State of Illinois - Radiological Emergency Assessment Center

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

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

ISSUE NO.: 13-09-5b1-P-01

ISSUE: Residents of the Clinton 10-mile EPZ were not notified that they may need to ingest KI after such a recommendation was made for emergency workers and immobile persons.

CORRECTIVE ACTION DEMONSTRATED: The State of Illinois will no longer notify the public to ingest KI once a release of radioactive material has occurred at the LaSalle County Station. Not all Plans (IPRA Volume 1) or procedures have been changed in accordance with this decision.

g. PRIOR ISSUES - UNRESOLVED: 2.a.1.

ISSUE NO.: 06-10-2a1-P-01

ISSUE: The REAC Health Physics (HP) Specialist procedures do not provide a method for calculating a Direct-Reading Dosimeter (DRD) dose conversion factor based on source term. Additionally, in the event that a calculated administrative limit is too low to read on the 0-20 R DRDs provided to Emergency Workers (EW), procedures do not provide an alternative method for controlling radiation exposure such as use of a clock based stay-time.

REASON UNRESOLVED: The procedure (RTF RAFT 11) was not changed to allow for the calculation of the conversion factor. However, the HP Specialist in the REAC calculated the dose based on the source term and applied a ratio (seven to one) for projected exposure versus measured exposure and directed field teams to apply the ratio for added protection and adjustment of time spent in the exposure areas.

The procedures have not been changed to indicate that field team emergency workers will be provided low-range DRDs.

3.3.1.4 State of Illinois - Unified Area Command

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

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

3.3.1.5 State of Illinois - Joint Information Center

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

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

3.3.1.6 State of Illinois - Joint Information Center/Media Briefing Center

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

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

3.3.1.7 State of Illinois - Emergency Operations Facility

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

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

3.3.1.8 State of Illinois - LaSalle County Emergency Operations Center - Illinois State Liaison

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

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

3.3.1.9 State of Illinois - LaSalle County Emergency Operations Center - Illinois State Radiological Advisor

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

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

3.3.1.10 State of Illinois - Grundy County Emergency Operations Center - Illinois State Liaison

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

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

3.3.1.11 State of Illinois - Grundy County Emergency Operations Center - Illinois State Radiological Advisor

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

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

3.3.1.12 State of Illinois - Illinois State Police District 17 Headquarters - Dosimetry Control Officer Briefing

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

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

3.3.1.13 State of Illinois - Illinois State Police District 17 Headquarters - Traffic and Access Control Post

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

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

3.3.1.14 State of Illinois - Ottawa Fire Department Ambulance - Medical Service - Transportation

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

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

3.3.1.15 State of Illinois - Ottawa Community Hospital - Medical Service - Facility

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

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

3.3.2 Risk Jurisdictions

3.3.2.1 LaSalle County - Initial Warning Point

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

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

3.3.2.2 LaSalle County - Emergency Operations Center

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

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

3.3.2.3 LaSalle County - Emergency Operations Center - Traffic and Access Control Post

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

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

3.3.2.4 LaSalle County - Emergency Broadcast System Station - WCMY/WRKX

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

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

3.3.2.5 LaSalle County - Marseilles Elementary School - Evacuation School

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

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

3.3.2.6 Grundy County - Initial Warning Point

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

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

3.3.2.7 Grundy County - Emergency Operations Center

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

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

3.3.2.8 Grundy County - Emergency Broadcast System Station - WCSJ/WJDK

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

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

SECTION 4: CONCLUSION

No Deficiencies were identified for any jurisdiction during this exercise.

No Areas Requiring Corrective Actions (ARCAs) were identified for any jurisdiction during this exercise.

Based on the results of the July 28, 2010, exercise, the offsite radiological emergency response plans and preparedness for the State of Illinois and affected local jurisdictions, site-specific to the LaSalle County Station, can be implemented and are adequate to provide reasonable assurance that appropriate measures can be taken offsite to protect the health and safety of the public in the event of a radiological emergency at the site.

Therefore, the Title 44 CFR, Part 350, approval of the offsite radiological emergency response plans and preparedness for the State of Illinois site-specific to the LaSalle County Station, granted on December 4, 1980, remain in effect.

APPENDIX A: LESSONS LEARNED

1. LaSalle Emergency Operations Center - Special Needs Identification Cards

Summary: The EOC has only individual cards denoting Special Needs persons located within the jurisdiction of LaSalle County. Searching through individual cards of Special Needs population takes time that may be better spent coordinating necessary response actions. Information can be lost or overlooked if the performance of these tasks occurs during an actual emergency. Meeting needs may also be delayed. The use of a data base or spreadsheet that allows grouping by Sub-Area, type of medical condition and transportation need, that can be updated annually may assist the representatives in better use of their time and make their tasks less complicated. This information could be easily shared with agencies responsible for providing transportation or medical needs.

Description: The LaSalle County representatives from the Health Department, Seneca and Marseilles used the actual Special Needs response cards from the utility mailings. The representative spent time reviewing the information on each card, determined the specific need and also checked each address to determine the individuals Sub-Area location.

APPENDIX B: EXERCISE TIMELINE

Table 1, on the following page, presents the times at which key events and activities occurred during the LaSalle County Station REP Partial Participation Plume Exposure Pathway exercise conducted on July 28, 2010. Also included are times notifications were made to the participating jurisdictions/functional entities.

Table 1 - Exercise Timeline
DATE: 2010-07-28, SITE: LaSalle County Station, IL

Emergency Classification Level or Event	Time Utility Declared	IL - SIRC	IL - REAC	IL - UAC	IL - JIC	LAS - EOC	GRU-EOC---
Unusual Event	NA	NA	NA	NA	NA	NA	NA
Alert	0824	0842	0842	0852	0848	0854	0855
Site Area Emergency	0947	0955	0952	1009	0953	1002	1005
General Emergency	1113	1122	1119	1134	1120	1132	1132
Simulated Rad. Release Started	1105	1122	1106	1134	1120	1132	1132
Simulated Rad. Release Terminated	NA	NA	NA	NA	NA	NA	NA
Facility Declared Operational		0847	0905	0850	1006	0915	0920
Declaration of State of Emergency		1128	NA	NA	NA	NA	NA
Exercise Terminated		1245	1246	1246	1247	1252	1242
Early Precautionary Action Decision: State issued an order to evacuate state parks and hunting areas.		1028	1017	1006	NA	NA	NA
Early Precautionary Action Decision: State issued a Livestock Advisory that all livestock are to be sheltered and placed on stored feed and water within the 10-mile EPZ.		0956	NA	1016	NA	NA	NA
Early Precautionary Action Decision: Air and Rail traffic restricted within the 10-mile EPZ.		1019	NA	1006	NA	NA	NA
General Information Message: Public advised of incident at LaSalle County Station		NA	NA	NA	NA	1002	0930
General Information Message Siren Activation		NA	NA	NA	NA	1014	NA
General Information EAS Message		NA	NA	NA	NA	1019	NA
1st Protective Action Recommendation: Evacuate Grundy County Sub-Areas 6, 9, and 13; evacuate LaSalle County Sub-Areas 1 and 10		1126	1119	NA	NA		
1st Protective Action Decision: Evacuate Grundy County Sub-Areas 6, 9, and 13; evacuate LaSalle County Sub-Areas 1, 10, and 11		NA	NA	NA	NA	1137	1132
1st Siren Activation		NA	NA	NA	NA	1140	1140
1st EAS Message		NA	NA	NA	NA	1141	1146
KI Administration Decision:		1126	1111	1134	NA	1139	1132

APPENDIX C: EXERCISE EVALUATORS AND TEAM LEADERS

The following is a list of the personnel that evaluated the LaSalle County Station REP Partial Participation Plume Exposure Pathway Exercise on July 28, 2010. The list includes the evaluation team leadership and all evaluators. The organization each evaluator represents is indicated by the following abbreviations:

DHS/FEMA Dept of Homeland Security/Federal Emergency Management Agency

ICF Consulting

Title	Name	Organization
Radiological Assistance Committee, Chairman	William E. King	DHS/FEMA
Exercise Director	Stephen Tulley	DHS/FEMA
Senior Specialist	Gary Naskrent	DHS/FEMA
Site Specialist	Todd M. Gemske	DHS/FEMA
Team Leader - Illinois	Deborah Fulk	DHS/FEMA
Team Leader - LaSalle County	Bridget Ahlgrim	DHS/FEMA
Team Leader - Grundy County	James King	DHS/FEMA

DATE: 2010-07-28, SITE: LaSalle County Station, IL

LOCATION	EVALUATOR	AGENCY
State of Illinois - Initial Warning Point	Todd Sniffin	ICF
State of Illinois - State of Illinois Response Center	Danny Loomis Todd Sniffin	ICFI ICF
State of Illinois - Radiological Emergency Assessment Center	Richard Grundstrom Gary Snodgrass	FEMA RIX ICF
State of Illinois - Unified Area Command	Richard Smith Patrick Taylor	ICF ICFI
State of Illinois - Joint Information Center	David Petta Bruce Swiren	ICFI ICFI
State of Illinois - Joint Information Center/Media Briefing Center	David Petta	ICFI
State of Illinois - Emergency Operations Facility	David Petta	ICFI
State of Illinois - LaSalle County Emergency Operations Center - Illinois State Liaison	John D. Simpson	FEMA RIV
State of Illinois - LaSalle County Emergency Operations Center - Illinois State Radiological Advisor	Clinton Crackel	FEMA RV
State of Illinois - Grundy County Emergency Operations Center - Illinois State Liaison	Deborah Bell	ICFI
State of Illinois - Grundy County Emergency Operations Center - Illinois State Radiological Advisor	Michael Petullo	ICFI
State of Illinois - Illinois State Police District 17 Headquarters - Dosimetry Control Officer Briefing	Richard Smith	ICF
State of Illinois - Illinois State Police District 17 Headquarters - Traffic and Access Control Post	David Petta	ICFI
State of Illinois - Ottawa Fire Department Ambulance - Medical Service - Transportation	Carolyn Sturghill	FEMA RV
State of Illinois - Ottawa Community Hospital - Medical Service - Facility	Patrick Taylor	ICFI
LaSalle County - Initial Warning Point	Lynn Steffensen	ICFI
LaSalle County - Emergency Operations Center	Clinton Crackel Todd Genskie John D. Simpson Kim Wood	FEMA RV FEMA RV FEMA RIV ICFI
LaSalle County - Emergency Operations Center - Traffic and Access Control Post	Kim Wood	ICFI
LaSalle County - Emergency Broadcast System Station - WCMY/WRKX	Lynn Steffensen	ICFI
LaSalle County - Marseilles Elementary School - Evacuation School	Bruce Swiren	ICFI
Grundy County - Initial Warning Point	Carolyn Sturghill	FEMA RV
Grundy County - Emergency Operations Center	Deborah Bell Michael Petullo Carolyn Sturghill	ICFI ICFI FEMA RV
Grundy County - Emergency Broadcast System Station - WCSJ/WJDK	Carolyn Sturghill	FEMA RV
* Team Leader		

APPENDIX D: ACRONYMS AND ABBREVIATIONS

Acronym	Meaning
ACP	Access Control Post
ALS	Advanced Life Support
ARCA	Area Requiring Corrective Action
ARES	Amateur Radio Emergency Services
BLS	Basic Life Support
CEM	County Emergency Manager
CMS	Central Management Services
DCO	Dosimetry Control Officer
DRD	Direct Reading Dosimeter
EAL	Emergency Action Level
EAS	Emergency Activation System
ECL	Emergency Classification Level
EMA	Emergency Management Agency
EMC	Emergency Management Coordinator
EMS	Emergency Medical Services
EMT	Emergency Medical Technician
EOC	Emergency Operation Center
EOF	Emergency Operations Facility
EPZ	Emergency Planning Zone
ERT	Emergency Response Telecommunicator
FAA	Federal Aviation Administration
FEMA	Federal Emergency Management Agency
GE	General Emergency
GIS	Geographic Information Systems
HPS	Health Physics Specialist
IC	Incident Commander
ICC	Illinois Commerce Commission
IEMA	Illinois Emergency Management Agency
IEPA	Illinois Environmental Protection Agency
ILEAS	Illinois Law Enforcement Alarm System
ING	Illinois National Guard
ISP	Illinois State Police
IT	Information Technology
ITECS	Information Technology Emergency Communications System

IVCC	Illinois Valley Community College
IWP	Initial Warning Point
JIC	Joint Information Center
LCEOC	LaSalle County Emergency Operations Center
LCS	LaSalle County Station
LD	Luminescent Dosimeter
LPN	Licensed Practical Nurse
LPS	LaSalle Power Station
MABAS	Mutual Aid Back Alarm System
MRT	Medical Radiation Technician
NARS	Nuclear Accident Reporting System
NMT	Nuclear Medicine Technician
NRC	Nuclear Regulatory Commission
OCH	Ottawa Community Hospital
ORO	Offsite Response Organization
OSLD	Optically Stimulated Luminescent Dosimeter
PAD	Protective Action Decision
PAR	Protective Action Recommendation
PIO	Public Information Officer
PNS	Prompt Notification System
RAC	Regional Assistance Committee
RAFT	Radiological Assessment Field Team
REA	Radiological Emergency Area
REAC	Radiological Emergency Assessment Center
REP	Radiological Emergency Preparedness
RN	Registered Nurse
RT	Radiological Technical
RTF	Radiological Task Force
SAE	Site Area Emergency
SEOC	State Emergency Operations Center
SRA	State Radiological Advisor
TACP	Traffic Access Control Post
TEDE	Total Effective Dose Equivalent
TSC	Technical Support Center
UAC	Unified Area Command
UCP	United Command Post
UHF	Ultra High Frequency
VHF	Very High Frequency

APPENDIX E: EXERCISE PLAN

This appendix lists the exercise criteria, which were scheduled for demonstration in the LaSalle County Station Radiological Emergency Preparedness Partial Participation Plume Exposure Pathway Exercise on July 28, 2010, and the offsite extent-of-play agreement accepted by DHS/FEMA Region V on July 7, 2010. The exercise criteria, contained in the FEMA “Radiological Emergency Preparedness Exercise Evaluation Methodology; Notice,” as published in the Federal Register Notice/Vol. 67, dated April 25, 2002, represent a functional translation of the planning standards and evaluation criteria of NUREG-0654/FEMA-REP-1, Rev1, “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 plant 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.

Exercise Criteria

Listed on the following pages are the specific radiological emergency preparedness criteria that were scheduled for demonstration during this exercise.

**STATE OF ILLINOIS EXTENT OF PLAY AGREEMENT
FOR THE
LASALLE STATION EXERCISE
July 28, 2010**

Criteria that can be re-demonstrated immediately for credit, at the discretion of the evaluator, include the following: 3.a.1, 3.d.1, 3.d.2, 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, 5.a.1 and 5.b.1.

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 houses the IEMA Communications Center (Initial Warning Point), the State of Illinois Response Center (SIRC) 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 SIRC will be partially activated with IEMA personnel. REAC will be fully activated. Rosters will be provided to demonstrate 24-hour staffing of the SIRC and REAC. The evaluator will not be allowed to remove the rosters.

The Unified Area Command (UAC) will be activated with State district and regional personnel at the IDOT Maintenance Yard in LaSalle. Radiological Assessment Field Team (RAFT) will be activated for training purposes. IEMA personnel will be prepositioned in the local area and dispatched to the County EOCs, UAC, EOF, Technical Support Center (TSC) and the JIC. FEMA will not evaluate the TSC.

An actual phone call will be made to the FEMA duty officer advising them of the situation at LaSalle 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 demonstrated 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.

The ability to direct and control emergency response activities will be demonstrated at the SIRC, REAC, the UAC and the JIC. Coordination will be demonstrated between the SIRC, the REAC, the UAC, the JIC, the EOF and the county EOCs.

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, commercial telephone, 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. Dosimetry Control Officer (DCO) logs will be available in each County EOC.

A DCO briefing/Traffic and Access Control (TAC) interview will be conducted by the Illinois State Police on July 27, 11 a.m. (confirmed), at the ISP District 17 Headquarters in LaSalle. 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 be demonstrated in REAC.

A message will be injected to the IEMA Radiological Advisor in the LaSalle County EOC and Grundy County EOC to drive the decision to authorize exposure in excess of administrative limits.

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 to the SIRC.

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 protective action recommendations (PARs) based upon available shelters, evacuation time estimates and other relevant factors will be demonstrated between the SIRC and REAC. The State PAR will be transmitted to LaSalle County EOC and Grundy County EOC via NARS.

The capability to determine which centers should be activated for monitoring, decontamination, registration reception and congregate care will be demonstrated at UAC, with input from the SIRC and REAC.

Criterion 2.c.1: Protective action decisions are made, as appropriate, for special population groups.

The coordination to determine protective action recommendations (PARs) based upon available shelters, evacuation time estimates and other relevant factors will be demonstrated between the SIRC and REAC. The State PAR will be transmitted to LaSalle County EOC and Grundy County EOC 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 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 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.

This will be demonstrated during the ISP DCO briefing/TAC interview on July 27, 11 a.m. (confirmed), at the ISP District 17 Headquarters in LaSalle.

Criterion 3.b.1: KI and appropriate instructions are available should a decision to recommend use of KI be made. Appropriate record keeping of the administration of KI for emergency workers and institutionalized individuals (not the general public) is maintained.

This will be demonstrated during the ISP DCO briefing/TAC interview on July 27, 11 a.m. (confirmed), at the ISP District 17 Headquarters in LaSalle.

Criterion 3.c.1: Protective action decisions are implemented for special population groups 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.

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 will be demonstrated by the State through coordination between the UAC and the County EOCs, in accordance with the LaSalle Station EPZ Traffic and Access Control procedures. The staffing of the State posts will be simulated during the exercise.

A TAC interview will be conducted during the ISP DCO briefing/TAC interview on July 27, 11a.m. (confirmed), at the ISP District 17 Headquarters in LaSalle.

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

This will be demonstrated through discussions at the UAC between the Illinois State Police and Illinois Department of Transportation. A message will be injected at the UAC that will drive this demonstration. State personnel will deal with the impediment by discussing the need for equipment, and its estimated time of arrival, etc. Actual contacts with resource providers will be made and logged.

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

This criterion will not be demonstrated during this exercise.

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

This criterion will not be demonstrated during this exercise.

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.

This criterion will not be demonstrated during this exercise.

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.

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 DHS REP guidance.

The State's role in demonstrating this criterion is limited to transmitting the State's protective action recommendation (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 LaSalle County EOC and Grundy County EOC.

Criterion 5.a.2: [RESERVED]

Criterion 5.a.3: Activities associated with DHS approved exception areas (where applicable) are completed within 45 minutes following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. Backup alert and notification of the public is completed within 45 minutes following the detection by the ORO of a failure of the primary alert and notification system.

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 SIRC, REAC, UAC, the LaSalle County EOC and Grundy County EOC. 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 SIRC when appropriate.

EVALUATION AREA 6 - SUPPORT OPERATION/FACILITIES

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

No interview/inspection will be conducted during the LaSalle exercise. All reception centers designated for the LaSalle EPZ have conducted an interview/inspection or full demonstration within the last five years.

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.

No interview/inspection will be conducted during the LaSalle exercise. All reception centers designated for the LaSalle EPZ have conducted an interview/inspection or full demonstration within the last five years.

Criterion 6.c.1: Managers of congregate care facilities demonstrate that the centers have resources to provide services and accommodations consistent with American Red Cross planning guidelines. 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.

No interview/inspection will be conducted during the LaSalle exercise. All reception centers designated for the LaSalle EPZ have conducted an interview/inspection or full demonstration within the last five years.

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 an out of sequence drill conducted at Ottawa Hospital in Ottawa on July 27, 1:00 p.m. (confirmed).

**GRUNDY COUNTY EXTENT OF PLAY AGREEMENT
FOR THE
LASALLE NUCLEAR POWER STATION EXERCISE
July 28, 2010**

Criteria that can be re-demonstrated immediately for credit, at the discretion of the evaluator, include the following: 3.a.1, 3.d.1, 3.d.2, 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, 5.a.1 and 5.b.1.

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.

Grundy County will fully activate the Emergency Operations Center (EOC) in Morris, Illinois. The County will implement notification procedures as defined in IPRA-LaSalle. 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.

The Grundy County Sheriff's Department will allow an evaluator to observe and evaluate the initial NARS message and notification at the Sheriff's Communications Center.

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

This criterion will not be demonstrated 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 Grundy County EOC. Coordination of decisions and emergency activities will be demonstrated between Grundy County, the SIRC, UAC and the JIC, and between the County and municipalities within the EPZ. Coordination between Grundy County and LaSalle 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.

Grundy County will use NARS, commercial telephone, cellular telephone, electronic mail, 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.

Grundy County will adequately 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.

EVALUATION AREA 2 - PROTECTIVE ACTION DECISION MAKING

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

This criterion does not apply to Grundy 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 Grundy 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 to Grundy County officials in the County EOC. The Grundy 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 special population groups.

The State of Illinois will make protective action recommendations to Grundy County officials in the County EOC. The Grundy County officials will make the final decision regarding what protective actions will be recommended for special population groups.

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 Grundy County.

Criterion 2.e.1: Timely 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 was last demonstrated in 2005 in conjunction with the Dresden exercise and will not be demonstrated during this exercise.

EVALUATION AREA 3 - PROTECTIVE ACTION IMPLEMENTATION

Criterion 3.a.1: The OROs issue appropriate dosimetry 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.

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

Criterion 3.b.1: KI and appropriate instructions are available should a decision to recommend use of KI be made. Appropriate record keeping of the administration of KI for emergency workers and institutionalized individuals (not the general public) is maintained.

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

Criterion 3.c.1: Protective action decisions are implemented for special population groups within areas subject to protective actions.

This will be demonstrated by Grundy County through the simulated implementation of the appropriate task assignments. The appropriate officials will coordinate transportation and receiving facilities for special populations. 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.

Grundy County does not have any schools within the LaSalle EPZ. No interview will be conducted in Grundy County.

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

This criterion does not apply to Grundy County. Grundy County is not responsible for staffing any of the designated traffic and access control posts.

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

The Grundy County EOC staff will demonstrate the capability to identify and take appropriate actions concerning impediments to evacuation. A message will 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.

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 Grundy 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 Grundy County.

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

This criterion was last demonstrated in 2005 in conjunction with the Dresden exercise and will not be demonstrated during this exercise.

EVALUATION AREA 4 - FIELD MEASUREMENT AND ANALYSIS

This evaluation area does not apply to Grundy 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 FEMA REP guidance.

Grundy County will demonstrate the capability to provide both an alert signal and an initial instructional message to populated areas throughout 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 (PAR).

This capability will be demonstrated through the simulated activation of the LaSalle Station EPZ Prompt Notification System as defined in IPRA-LaSalle. The Prompt Notification System (outdoor warning sirens) will not be activated during the exercise.

The ability to provide instructions to the public will be demonstrated through the simulated activation of the local radio station (WCSJ/WJDK). 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 for a message containing a PAR.

The IEMA Controller will terminate the demonstration if the demonstration interferes with the radio station's daily operations. Coordination between Grundy County and LaSalle County will be demonstrated.

Criterion 5.a.2: [RESERVED]

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

This criterion does not apply to Grundy County.

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

Grundy County will demonstrate this criterion by using pre-scripted messages as indicated in IPRA-LaSalle or ad hoc messages will be developed. Contact with the radio station (WCSJ/WJDK) will be simulated for each alert and notification sequence following the initial protective action recommendation.

The ability to provide information to the media will be demonstrated by Grundy County through a briefing held at the Grundy 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 Grundy County through coordination between the County EOC and the JIC. The Grundy 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.

County emergency broadcast messages and news releases, if issued, will be faxed to the JIC.

EVALUATION AREA 6 - SUPPORT OPERATION/FACILITIES

This evaluation area does not apply to Grundy County.

**LASALLE COUNTY EXTENT OF PLAY AGREEMENT
FOR THE
LASALLE STATION EXERCISE
July 28, 2010**

Criteria that can be re-demonstrated immediately for credit, at the discretion of the evaluator, include the following: 3.a.1, 3.d.1, 3.d.2, 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, 5.a.1 and 5.b.1.

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.

LaSalle County intends to fully activate the Emergency Operations Center (EOC) in Ottawa, Illinois. The County will implement notification procedures as defined in IPRA-LaSalle. Representatives from the EPZ municipalities, IEMA, ISP and Exelon will staff the County EOC but will not be pre-positioned in the EOC. A roster will be provided to demonstrate a 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 be demonstrated during this exercise at the new LaSalle County EOC.

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 in the LaSalle County EOC. Coordination of decisions and emergency activities will be demonstrated between LaSalle County, SIRC, UAC and the JIC, and between the County and municipalities within the EPZ. Coordination between LaSalle County and Grundy 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.

LaSalle County will use NARS, commercial telephone, radio and telefax to communicate with departments, organizations 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.

LaSalle 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 LaSalle County EOC. The availability of dosimetry and KI will be demonstrated at the County EOC, during the traffic and access control demonstration and the school interviews. The DCO Briefing for the deputy demonstrating traffic and access control will be conducted at the LaSalle 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 LaSalle 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 LaSalle 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 to LaSalle County officials in the County EOC. The LaSalle 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 special population groups.

The State of Illinois will make protective action recommendations to LaSalle County officials in the County EOC. The LaSalle County officials will make the final decision regarding what protective actions will be recommended to the special population groups.

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 LaSalle County.

Criterion 2.e.1: Timely 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 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.

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

This criterion will also be demonstrated during the school interviews and the traffic and access control demonstration. The DCO briefing for the Sheriff's deputy demonstrating traffic and access control will be conducted at the LaSalle County EOC.

Criterion 3.b.1: KI and appropriate instructions are available should a decision to recommend use of KI be made. Appropriate record keeping of the administration of KI for emergency workers and institutionalized individuals (not the general public) is maintained.

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

This criterion will also be demonstrated during the traffic and access control demonstration and the school interviews. The DCO briefing for the Sheriff's deputy demonstrating traffic and access control will be conducted at the LaSalle County EOC.

Criterion 3.c.1: Protective action decisions are implemented for special population groups within areas subject to protective actions.

This will be demonstrated by LaSalle County through the simulated implementation of the appropriate procedures. The appropriate officials will coordinate transportation and receiving facilities for special populations. 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/Cards will be available for inspection in the County EOC during the exercise. The evaluator will not be allowed to remove the list/cards from the EOC.

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

LaSalle 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.

A school interview will be conducted at the Marseilles Elementary Unit School District #150. The District Superintendent, a Teacher, the transportation coordinator (DCO), a bus driver and the maintenance supervisor will be present at the interview. The interview will be conducted on July 27, 2010 at 9:00 a.m. (confirmed).

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

Coordination between LaSalle County agencies designated to provide traffic and access control will be exhibited in the County EOC. A Sheriff's deputy will be available during the exercise to demonstrate the staffing of one post. The post for the demonstration will be selected by LaSalle County during the exercise based on exercise play. The deputy will drive to the selected post location for the demonstration. The staffing of the remaining posts will be simulated.

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

The LaSalle County EOC staff will demonstrate the capability to identify and take appropriate actions concerning impediments to evacuation. A message will 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.

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 LaSalle 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 LaSalle County.

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

This criterion will not be demonstrated during this exercise.

EVALUATION AREA 4 - FIELD MEASUREMENT AND ANALYSIS

This evaluation area does not apply to LaSalle 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 FEMA REP guidance.

LaSalle County will demonstrate the capability to provide both an alert signal and an initial instructional message to populated areas throughout 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 (PAR).

This capability will be demonstrated through the simulated activation of the LaSalle Station EPZ Prompt Notification System as defined in IPRA-LaSalle. The Prompt Notification System (outdoor warning sirens) will not be activated during the exercise.

The ability to provide instructions to the public will be demonstrated through the simulated activation of the local radio station. The local radio station (WCMY/WRKX) 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 the initial alert and notification sequence message. An evaluator and controller will be positioned at the radio station during the exercise to monitor for a message containing a PAR.

The IEMA Controller will terminate the demonstration if the demonstration interferes with the radio station's daily operations.

Coordination between LaSalle County and Grundy County will be demonstrated.

Criterion 5.a.2: [RESERVED]

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

This criterion does not apply to LaSalle County.

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

LaSalle County will demonstrate this criterion by using pre-scripted messages as indicated in IPRA-LaSalle or ad hoc messages will be developed. Contact with the radio station (WCMY/WRKX) 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 LaSalle County through a briefing held at the LaSalle County media briefing location. If real media are not present for the briefings, 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 LaSalle County through coordination between the County EOC and the JIC. The LaSalle 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.

County emergency broadcast messages and news releases, if issued, will be faxed to the JIC.

EVALUATION AREA 6 - SUPPORT OPERATION/FACILITIES

This evaluation area does not apply to LaSalle County.

APPENDIX F: SCENARIO DETAILS

This appendix contains a summary of the Exercise Scenario, a simulated sequence of events, that was used as the basis for invoking emergency response actions by Offsite Response Organizations (OROs) in the Quad Cities Station REP Partial Participation Plume Exposure Pathway exercise on November 17, 2010.

Results of a technical review of the scenario, submitted by the State of Illinois and Exelon Nuclear on September 17, 2010, indicated that the scenario was adequate to support demonstration of Department of Homeland Security's requirements, as well as criteria selected by the OROs provided in the State's July 7, 2010, extent-of-play submission.

This exercise scenario was accepted by DHS/FEMA Region V on October 19, 2010.

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

DHS/FEMA concurred with the offsite scenario and extent-of-play submission for the State of Illinois, Rock Island and Whiteside Counties for the November 17, 2010 Biennial Radiological Emergency Preparedness Exercise for the Quad Cities Station.

Quad Cities Station ALERT Scenario Summary

0810 – 0940

Diesel Generator Crankcase Explosion and Cardox Discharge

At 0810, the Control Room (CR) Crew will receive a message that the U1 Diesel Generator (DG) has suffered an explosion and Cardox is discharging into the DG room. The Non-Licensed Operator monitoring the surveillance exited the room and is on the scene giving reports.

At 0820, the CR Crew will receive a message that there is no fire in the DG room, the Cardox discharge has automatically terminated and there are no injuries.

Onsite Expected Actions

The Fire Brigade (simulated) will be dispatched to the scene via a controller message. The Operating Crew should respond by following the actions of the prescribed procedures. The Shift Manager should declare either HA6 "Fire or explosion affecting operability of systems required to establish or maintain safe shutdown" or HA7 "Release of toxic or flammable gases within or restricting access to a Vital Area." [T₀=when the explosion occurs, or CO₂ discharges]

All appropriate notifications should be performed, and the Dialogic System should be activated. The Operating Crew may contemplate calling in extra personnel to assist with monitoring the control boards. Command and Control should be transferred as soon as practicable. The Fire Brigade will continue with follow-up actions such as ventilating the DG room, preparing the room re-entry for inspection, and establishing a Fire Watch.

**Approx.
Time**

Event/Anticipated Offsite Response

0755	Initial conditions/weather forecast message to players.
0810	An Alert is declared at Quad Cities Station.
0825	Exelon notifies the IEMA Telecommunicator of the ALERT via NARS. IEMA Telecommunicator verifies the NARS message. An IEMA Duty Officer contacts the Quad Cities Station Shift Engineer. IEMA Telecommunicator notifies IEMA personnel of the ALERT per SOP. IEMA may activate the State of Illinois Response Center (SIRC) and Radiological Emergency Assessment Center (REAC), if appropriate. 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. IEMA notifies Governor's Office of the ALERT. IEMA Telecommunicator notifies appropriate State agencies of the ALERT. IEMA notifies FEMA of the ALERT.
0840	IEMA Telecommunicator notifies EPZ counties of the ALERT via NARS. County telecommunicators complete and verify the NARS message. County telecommunicators notify county officials and municipalities of the ALERT per SOP. Municipal telecommunicators complete and verify the NARS message.

Municipal telecommunicators notify officials of the ALERT per SOP.

The counties and municipalities may activate the EOCs, if appropriate.

Quad Cities Station SITE AREA EMERGENCY (SAE) Scenario Summary

0930-1030

Anticipated Transient Without a Scram (ATWS)

Multiple rods drift resulting in scram initiation. The reactor scram results in an Anticipated Transient Without a Scram (ATWS) with automatic and manual actions failing to result in a scram. Reactor Scram (either manual or automatic) fails due to hydraulic failure. ATWS initiation fails to scram the reactor. A spurious Main Steam Isolation Valve (MSIV) isolation occurs. A RWCU isolation failure occurs, however, this is not a loss of containment as there is no pathway to the environment. Notification of A and B SBTG have failed filters (engineering letter).

Onsite Expected Actions

The Operating Crew should respond to the scram signal by recognizing that all rods did not insert. Actions should be initiated to address an ATWS and the appropriate emergency procedures should be entered to address the situation. The Emergency Director should declare a Site Area Emergency based on MS3 (Automatic scram, manual scram, and ARI were not successful from the reactor console). [T₀=when the rods fail to insert from the control room]. All of the appropriate notifications should be performed and site assembly and accountability procedures should be initiated.

1030 to 1110

A concurrent FS1 occurs when a Loss Of Coolant Accident in the U1 Drywell occurs. Drywell Rads rise. The small leak in containment first results in a Loss of RCS RC 3 or 5 (concurrent FA1). A Loss of Fuel Clad (FC5) occurs when Drywell rad >665 R/hr with previous Loss of RCS (concurrent FS1). DW spray will be inhibited.

<u>Approx. Time</u>	<u>Event/Anticipated Offsite 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. SIRC is activated if not previously activated. SIRC notifies the Governor's Office and requests that a representative report to the State EOC. (Simulated)
0955	State dispatches liaisons to the County EOCs, UAC, RAFT, JIC, TSC and EOF, if not previously dispatched . SIRC 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 SIRC and County EOC Liaisons. REAC provides an update to the JIC.

**Approx.
Time**

Event/Anticipated Offsite Response

1010	<p>IEMA notifies EPZ counties of the SITE AREA EMERGENCY via NARS.</p> <p>County telecommunicators complete and verify the NARS message.</p> <p>County telecommunicators notify County officials and municipalities of the SITE AREA EMERGENCY per SOP.</p> <p>Counties implement public notification procedures, if appropriate. (Simulated)</p> <p>Municipal telecommunicators complete and verify the NARS message.</p> <p>Municipal telecommunicators notify officials per SOP.</p> <p>County and municipal EOCs are activated if not previously activated.</p> <p>Dosimetry is issued to emergency personnel, EOC staff and exposure records are completed.</p>
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Quad Cities Station GENERAL EMERGENCY (GE) Scenario Summary

1110 through Windshift

RWCU LINE BREAK IN THE REACTOR BUILDING

A release in progress will result from the failure. 1110 FG1 Isolation failure in the Reactor Building (RWCU area) GENERAL EMERGENCY MAX PARS. Loss of Containment –Rx Bld Max Safe operating lvls (CT6.1/3). Loss of Fuel Clad – Drywell Radiation > 665 R/Hr (FC5) previously identified. Loss of RCS – Drywell press > 2.5 due to RCS leakage (RC3) or Drywell Rad >100 R/hr with RCS leakage (RC5) previously identified.

Onsite Expected Actions

The Operating Crew should recognize the break and release. The Emergency Director should declare a General Emergency FG1 (Loss of ANY two barriers, AND loss or potential loss of the third barrier) [T₀=when the RWCU line breaks] with maximum PARS (5 Mile Radius & 10 Miles downwind with Sub-Areas) and a release in progress: At 11:30, a concurrent EAL RG1 occurs as part of the peak release rate.

- 1.) Loss of Containment [CT6.1/3],
- 2.) Loss of RCS [RC3 or RC5], and
- 3.) Loss of Fuel Clad [FC5].

<u>Approx. Time</u>	<u>Event/Anticipated Offsite Response</u>
1110	A GENERAL EMERGENCY is declared at Quad Cities Station.
1125	<p>Exelon notifies the IEMA Telecommunicator of the GENERAL EMERGENCY via NARS. Protective actions are recommended.</p> <p>IEMA Telecommunicator verifies the NARS message.</p> <p>The SIRC and REAC evaluate the protective action recommendation.</p> <p>A recommendation is made to the Governor. The Governor recommends that protective actions be implemented.</p> <p>SIRC staff is advised of the situation.</p> <p>SIRC advises UAC, the County EOC liaisons and JIC staff of the situation.</p> <p>SIRC notifies FEMA of conditions. (Simulated)</p> <p>REAC provides an update to the SIRC and County EOC liaisons.</p> <p>REAC provides an update to the JIC.</p>
1140	<p>SIRC notifies EPZ counties of the GENERAL EMERGENCY and the recommended protective actions via NARS.</p> <p>County telecommunicators complete and verify the NARS message.</p> <p>County telecommunicators notify county officials and municipalities per SOP.</p> <p>Counties implement public notification procedures and traffic and access control per SOPs, as applicable.</p> <p>Municipal telecommunicators complete and verify the NARS message.</p> <p>Municipal telecommunicators notify EOC staff.</p>

2nd PAR Opportunity

Wind Shift

1200 - End

A wind shift (from 310°) occurs resulting in new Sub Areas being affected, (IL Sub-Area 5 added).

Onsite Expected Actions

Recommendations (PARs) should be made for appropriate Illinois and Iowa Sub-Areas,

Approx. Time

Event/Anticipated Offsite Response

1200	A PAR change is declared at Quad Cities Station.
1215	Exelon notifies the IEMA Telecommunicator of the PAR change via NARS. New protective actions are recommended. IEMA Telecommunicator verifies the NARS message. The SIRC and REAC evaluate the protective action recommendation. A recommendation is made to the Governor. The Governor recommends that protective actions be implemented. SIRC staff is advised of the situation. SIRC advises UAC, the County EOC liaisons and JIC staff of the situation. SIRC notifies FEMA of conditions. (Simulated)
1215	REAC provides an update to the SIRC and County EOC liaisons. REAC provides an update to the JIC.
1230	SIRC notifies EPZ counties of the PAR change and the recommended protective actions via NARS. County telecommunicators complete and verify the NARS message. County telecommunicators notify county officials and municipalities per SOP.

**Approx.
Time**

Event/Anticipated Offsite Response

1230 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.

EXERCISE TERMINATION

Exercise termination is scheduled for 1245. Termination criteria include concurrence from each facility that all selected objectives have been evaluated and concurrence from the controllers that all parties are ready to terminate the exercise.

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