



LaSalle County Station

After Action Report/ Improvement Plan

Exercise Date - August 01, 2012

Radiological Emergency Preparedness (REP) Program



FEMA

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EXECUTIVE SUMMARY

On August 1, 2012, a Radiological Emergency Preparedness (REP) Full Participation Plume Exposure Pathway Exercise was evaluated 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 capabilities of the 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 July 28, 2010. 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 risk county of 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 After Action Report (AAR)/Improvement Plan (IP) 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 (DCO) Briefing;
- Traffic and Access Control Post (TACP) at the ISP District 17 Headquarters;
- Medical Services Transportation and Hospital (MS-1) evaluation at OSF Saint Elizabeth Medical Center;
- Protective Actions for Schools (EV-2) for the Ottawa Elementary School District No.141 and Allen- Otter Creek Community Consolidated School District No.65;
- Monitoring and Decontamination of evacuees and their vehicles;
- Public Registration and Congregate Care;
- Ottawa Police Department DCO Briefing;
- Ottawa Police Department TACP.

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. The DHS/FEMA's activities are conducted pursuant to Title 44 of the 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" (Commonly referred to as 44 CFR 350 through 352). These regulations are a key element in the Radiological Emergency Preparedness (REP) Program that was established following the Three Mile Island Nuclear Station accident in March 1979.

FEMA Regulation 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.

The 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 LCS 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 Full Participation Plume Exposure Pathway Exercise was conducted on August 1, 2012, and evaluated by the 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 LCS. The purpose of this AAR/IP is to present the exercise results and findings based on the performance of the Offsite Response Organizations (OROs) during a simulated radiological emergency.

The findings presented in this AAR/IP 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 Radiological Emergency Preparedness: Exercise Evaluation Methodology, as published

in the FEMA Radiological Emergency Preparedness Manual, dated April 2012, which supersedes 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 a 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 exercise objectives 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, Areas Requiring Corrective Action (ARCAs), and Plan Issues 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 LCS, 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 EPZ 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 four

largest communities in the EPZ and their respective year 2010 population figures: Kinsman (99), Marseilles (5,094), Seneca (2,371) and Verona (215). The year 2010 total population for these communities was 7,779 persons. The 10-mile EPZ is divided into 13 Sub-Areas.

Following is a list of the Sub-Areas with their associated year 2010 permanent resident population: Sub-Area 1 (1,060), Sub-Area 2 (77), Sub-Area 3 (784), Sub-Area 4 (3,145) Sub-Area 5 (507), Sub-Area 6 (108), Sub-Area 7 (695), Sub-Area 8 (515), Sub-Area 9 (308), Sub-Area 10 (8,192), Sub-Area 11 (6,147), Sub-Area 13 (687) and Sub-Area 17 (288).

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 sixty-acre park with camping facilities on the southwest shore of the 2058 acre cooling lake for the LCS. The cooling lake, which occupies over two thirds of the 3060 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 LCS. Five and one-half miles north-northwest of the LCS is the 510 acre Illini State Park with camping, boating, picnicking and fishing.

Major transportation facilities in the LCS EPZ are limited to Interstate 80, nine miles north of the station and the Illinois Waterway, four and one-half miles north of the LCS. Marseilles Lock and Dam, at river mile 244.5, is seven miles northwest. Five rail lines also run through the LCS EPZ and their location in the EPZ is described in relationship to the LCS. 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

August 01, 2012

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 Systems
Illinois Department of Agriculture
Illinois Department of Corrections
Illinois Department of Natural Resources
Illinois Department of Public Health
Illinois Department of Transportation
Illinois Department of Transportation - Aeronautics
Illinois Emergency Management Agency
Illinois Environmental Agency
Illinois National Guard
Illinois State Police
Nuclear Regulatory Commission
Order of Saint Francis (OSF) Saint Elizabeth's Hospital

Public Information Officer

Risk Jurisdictions

Brookfield Township EOC Representative

Joliet Fire Department

Joliet Police Department

LaSalle County Board Chairman

LaSalle County Emergency Management

LaSalle County Health Department

LaSalle County Highway Department

LaSalle County Regional Superintendent of Schools

Marseilles EOC Representative

Ottawa Fire Department Ambulance Service

Ottawa EOC Representative

Public Information Officer

RACES

Seneca EOC Representative

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 LCS REP Full Participation Plume Exposure Pathway Exercise conducted on August 1, 2012, to assess the capabilities of local emergency preparedness organizations in implementing their RERPs 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 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 E “Exercise Plan.”

The Exercise Planning Team (EPT) selected objectives that focus on evaluating emergency response procedures, identifying areas for improvement, and fostering collaboration between the various OROs and stakeholders. This exercise focused on the following objectives:

- ORO demonstration of effective Emergency Operations Management;
- ORO demonstration of effective Protective Action Decision Making;
- ORO demonstration of effective Protective Action Implementation;
- ORO demonstration of effective Field Measurement and Analysis;
- ORO demonstration of effective Emergency Notification and Public Information;
- ORO demonstration of effective Support Operations and Facilities.

2.3 Scenario Summary

Appendix F “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 OROs during the LCS REP Full Participation Plume Exposure Pathway exercise on August 1, 2012.

Results of a technical review of the scenario, submitted by the State of Illinois and Exelon Nuclear on June 4, 2012, indicated that the scenario was adequate to support demonstration of DHS/FEMA requirements, as well as criteria selected by the OROs provided in the State’s June

11, 2012, Extent-of-Play submission. The DHS/FEMA Region V accepted this exercise scenario on July 2, 2012.

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.

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 August 1, 2012, REP Full Participation Plume Exposure Pathway Exercise conducted to test the offsite emergency response capabilities of State and local governments in the 10-mile EPZ surrounding the LCS.

Each jurisdiction and functional entity was evaluated based on its demonstration of exercise criteria delineated in FEMA Radiological Emergency Preparedness: Exercise Evaluation Methodology, as published in the FEMA Radiological Emergency Preparedness Manual, dated April 2012. Detailed information on the exercise criteria and the Extent-of-Play agreements used in this exercise are found in Appendix E “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 jurisdiction or functional entity performed all activities under the Demonstration Criterion to the level required in the Extent-of-Play Agreement, with no Deficiencies or ARCAs assessed under that criterion 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 –** 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 ARCA(s) 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 FEMA Radiological Emergency Preparedness: Exercise Evaluation Methodology, as published in the FEMA Radiological Emergency Preparedness Manual, dated April 2012, 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/FEMA has developed a standardized system for numbering exercise issues. This system is used to achieve consistency in numbering exercise issues among DHS/FEMA Regions and site-specific exercise reports within each Region. It also is used to expedite tracking of exercise issues on a nationwide basis.

The identifying number of 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 (34 for LCS).

- Exercise Year – The last two digits of the year the exercise was conducted.

- Criterion Number – The letters and numbers corresponding to the Demonstration Criterion in Part III.C of the FEMA REP Program 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 (3 pages)

<p>DATE: 2012-08-01 SITE: LaSalle County Station, IL</p> <p>M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated</p>		IL - IWP	IL - SIRC	IL - REAC	IL - UAC	IL - RAFT	IL - FMT-1	IL - FMT-2	IL - RAFT-EWMDEq	IL - Mobile Lab	IL - JIC	IL - PIPB Hotline
Emergency Operations Management												
Mobilization	1a1	M	M	M	M	M				M	M	M
Facilities	1b1											
Direction and Control	1c1		M	M	M	M					M	
Communications Equipment	1d1	M	M	M	M	M	M	M		M		
Equipment and Supplies to Support Operations	1e1		M	M	M	M	M	M		M	M	M
Protective Action Decision Making												
EW Exposure Control Decisions	2a1			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											
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					M						
Field Team Operations	4a3						M	M				
Field Team Sampling	4b1											
Laboratory Operations	4c1									M		
Emergency Notification and Public Info												
Initial Alert & Notification	5a1		M									
RESERVED	5a2											
Backup Alert & Notification	5a3											
Exception Area Alerting	5a4											
Subsequent Information & Instructions	5b1		M	M	M						M	M
Support Operations/Facilities												
Reception Center Operations	6a1											
EW Monitoring & Decontamination	6b1								M			
Congregate Care	6c1											
Contaminated Injured Transport & Care	6d1											

Table 3.1 - Summary of Exercise Evaluation (Continued. page 2/3)

		DATE: 2012-08-01 SITE: LaSalle County Station, IL M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated									
		IL - EOF	IL-EOC LAS-SL	IL-EOC LAS SRA	IL-ISP D#17 HQ-DCO B	IL-ISP D#17 HQ-TACP	IL-Ottawa FD Amb-MSIT	IL-Ottawa CH-MSIF	IL-Joliet JC-EvWM	IL-Joliet JC-EvWD	IL-Joliet JC-EW/MDEq
Emergency Operations Management											
Mobilization	1a1	M									
Facilities	1b1										
Direction and Control	1c1	M	M						M		
Communications Equipment	1d1				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							
PARs	2b1										
PADs	2b2										
PADs for Disabled/Functional Needs	2c1										
Ingestion PADs	2d1										
RRR Decisions	2e1										
Protective Action Implementation											
EW Exposure Control Implementation	3a1			M	M	M	A	P			
KI Public/Institutionalized	3b1										
PAD Implementation Disabled/Functional Needs	3c1										
PAD Implementation Schools	3c2										
TACP Establishment	3d1					M					
Impediments	3d2										
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							
RESERVED	5a2										
Backup Alert & Notification	5a3										
Exception Area Alerting	5a4										
Subsequent Information & Instructions	5b1		M	M							
Support Operations/Facilities											
Reception Center Operations	6a1								M	M	M
EW Monitoring & Decontamination	6b1										
Congregate Care	6c1										
Contaminated Injured Transport & Care	6d1						M	M			

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

<p style="text-align: center;">DATE: 2012-08-01 SITE: LaSalle County Station, IL M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated</p>			IL-Joliet JC-EvR	IL-Joliet JC-CCC	LAS - IWP	LAS - EOC	LAS-EOC-TACP	LAS-EBS-W/CMY/WRKX	LAS - Ottawa PD - DCO B	LAS - Ottawa PD - TACP	LAS-A-O Creek SD 65-EV2	LAS - Ottawa SD 141 - EV2
Emergency Operations Management												
Mobilization	1a1				M	P						
Facilities	1b1											
Direction and Control	1c1					M						
Communications Equipment	1d1	M	M	M	M	M				M	M	M
Equipment and Supplies to Support Operations	1e1	M			M	M			M	M	M	M
Protective Action Decision Making												
EW Exposure Control Decisions	2a1											
PARs	2b1											
PADs	2b2					M						
PADs for Disabled/Functional Needs	2c1					M						
Ingestion PADs	2d1											
RRR Decisions	2e1					M						
Protective Action Implementation												
EW Exposure Control Implementation	3a1					M	M		M	M	M	M
KI Public/Institutionalized	3b1					M						
PAD Implementation Disabled/Functional Needs	3c1					M						
PAD Implementation Schools	3c2					M					M	M
TACP Establishment	3d1					M	M			M		
Impediments	3d2					M						
Implement Ingestion PADs	3e1											
Coordination of RRR Decisions	3e2											
Coordination of RRR Decisions	3f1					M						
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				
RESERVED	5a2											
Backup Alert & Notification	5a3											
Exception Area Alerting	5a4											
Subsequent Information & Instructions	5b1					M						
Support Operations/Facilities												
Reception Center Operations	6a1	M										
EW Monitoring & Decontamination	6b1											
Congregate Care	6c1		M									
Contaminated Injured Transport & Care	6d1											

3.3 Criteria Evaluation Summaries

3.3.1 Illinois Jurisdictions

3.3.1.1 State of Illinois - Initial Warning Point

The Illinois Emergency Management Agency Communications Center/Initial Warning Point (IWP), located within the State Emergency Operations Center in Springfield, Illinois demonstrated the Target Capability of Emergency Operations Center Management. The IWP used effective procedures to alert, notify, and mobilize emergency personnel and activate facilities in a timely manner. Dispatchers were familiar with their nuclear incident notification procedures. There are redundant communication systems available at the Dispatch Center, and primary and backup systems were used effectively during this exercise.

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.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

The Radiological Emergency Assessment Center (REAC) as part of the State of Illinois effectively demonstrated the Target Capability of Emergency Operations Center Management by promptly activating and providing multi-agency coordination throughout the Radiological Emergency Preparedness Exercise at the LaSalle County Station. The REAC Manager demonstrated a leadership role for the offsite response organization and provided direction and control to the response effort. The REAC Manager used a decision-making process that involved considerations of appropriate factors, including utility recommendations, plant status, release rate, dose projections, field measurements, weather conditions and knowledge of the area, and provided necessary coordination to make appropriate and timely Protective Action Recommendations (PARs). The Health Physics Specialist performed independent dose projections, compared dose projections and field data to formulate and validate PARs. The PARs were provided to the State of Illinois Incident Response Center (SIRC) Manager to provide consistent PARs for the protection of the public.

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

3.3.1.4 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, 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

3.3.1.5 State of Illinois - Radiological Assessment Field Team

The State of Illinois demonstrated the Target Capability of On-Site Incident Management by coordinating radiological sampling operations required to support Protective Action Decision-making throughout the Radiological Emergency Preparedness Exercise at the LaSalle County Station. The Radiological Assessment Field Team (RAFT) was well equipped with all necessary communications, equipment and supplies required for the capability of efficient communications with offsite organizations. Throughout the exercise, the RAFT Commander had frequent briefings and discussions to resolve issues as they occurred. The RAFT staff interacted and communicated with each other and respective field monitoring teams effectively.

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

3.3.1.6 State of Illinois - Field Monitoring Team - 1

The State of Illinois demonstrated the Target Capability of On-Site Incident Management through the use of Field Monitoring Teams (FMTs) throughout the Radiological Emergency Preparedness Exercise at the LaSalle County Station. The FMTs were equipped to perform field measurements of direct radiation exposure (cloud & ground shine) and to sample airborne radioiodine and particulates. The FMTs also demonstrated they could take and record ambient radiation measurements at appropriate locations, and collected radioiodine and particulate samples.

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

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

3.3.1.7 State of Illinois - Field Monitoring Team - 2

The State of Illinois demonstrated the Target Capability of On-Site Incident Management through the use of Field Monitoring Teams (FMTs) throughout the Radiological Emergency Preparedness Exercise at the LaSalle County Station. The FMTs were equipped to perform field measurements of direct radiation exposure (cloud & ground shine) and to sample airborne radioiodine and particulates. The FMTs also demonstrated they could take and record ambient radiation measurements at appropriate locations, and collected radioiodine and particulate samples.

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

3.3.1.8 State of Illinois - Radiological Assessment Field Team - Emergency Worker Monitoring and Decontamination of Equipment

The State of Illinois demonstrated the Target Capability for Emergency Worker Monitoring and Decontamination of Emergency Workers and Equipment. The State established adequate facilities, resources, and trained personnel to provide monitoring and decontamination of emergency workers. The State had adequate procedures and resources for accomplishment of monitoring and decontamination of emergency worker equipment including vehicles.

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

- a. MET: 6.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 - Mobile Laboratory

The State of Illinois demonstrated the Target Capability of On-Site Incident Management through the use of the Mobile Laboratory (Mobile Lab) throughout the Radiological Emergency Preparedness Exercise at the LaSalle County Station. The laboratory analyzed samples and sample data in an appropriate manner maintaining sample integrity. The laboratory implements a quality assurance (QA) program to ensure the reliability of analytical results and counting system functionality. Provisions for analyzing samples with high radiation levels included: reducing counting times, increasing sample height or sending samples above the limit to the Illinois Emergency Management Agency fixed laboratory facilities in Springfield, IL or West Chicago, IL. Federal Agencies, if involved in the response, could also provide additional analytical capabilities. Mobile Lab staff demonstrated when and how they would check for contamination during sample preparation and analysis for three simulated samples. Chain of custody forms were completed for sample transfer to individuals outside of the Mobile Lab staff. Sample integrity was maintained throughout the process by utilizing sample data forms.

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

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

3.3.1.10 State of Illinois - Joint Information Center

The Joint Information Center, as part of the State of Illinois, demonstrated the Target Capability of Providing Emergency Public Information through the County Public Information Officers (PIOs) at the Joint Information Center (JIC). Effective procedures were used to alert, notify, and mobilize personnel and active the facility in a timely manner. Key personnel with leadership roles provided direction and control. Emergency information and instructions were presented to the public and the news media in a timely manner.

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, 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

3.3.1.11 State of Illinois - Public Inquiry Phone Bank

The State of Illinois demonstrated the Target Capability of Providing Emergency Public Information from the State through the Public Inquiry Phone Bank. Key personnel with leadership roles provided direction and control. Emergency information and instructions were presented to the public in a timely manner and trends were properly identified.

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

- a. MET: 1.a.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

3.3.1.12 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.
- 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 - 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.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

3.3.1.14 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: 2.a.1, 3.a.1, 5.a.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: 2.a.1.

ISSUE NO.: 34-12-2a1-A-02

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

CONDITION: The Illinois Emergency Management Agency (IEMA) State Radiological Advisor (RA) at the LaSalle County Emergency Operations Center (EOC) did not follow procedures to authorize emergency worker exposures to radiological material that could potentially exceed the established limits. In response to Controller Inject 1001, which was a request from an Ambulance Crew to enter the radiological plume path to provide assistance to an elderly individual, the RA authorized the Ambulance Crew to proceed without contacting the REAC.

POSSIBLE CAUSE: At 1208 hours, when the RA received the Controller Inject, he was handling multiple tasks and provided a response to the message based on his awareness of the current conditions. The RA indicated that he was aware of the correct procedure, but did not follow it.

REFERENCE: Illinois Plan for Radiological Accidents (IPRA) Radiological Task Force Standard Operating Procedure, Emergency Worker Dosimetry (RTF-RAFT-11) 4.6.C

EFFECT: The Ambulance Crew could have been potentially exposed to radiological material that could have resulted in levels that exceeded the established limits.

CORRECTIVE ACTION DEMONSTRATED: The RA was provided training on the correct procedures by the Controller. The RA was then provided Controller Inject 1001 and indicated that prior to allowing the Ambulance Crew to enter the plume path, the REAC would be contacted to determine the radiological levels and if required authorization to exceed the established exposure limits. This issue was successfully re-demonstrated.

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

The State of Illinois demonstrated the Target Capability of Emergency Public Safety and Security Response through interview, which included the distribution of dosimetry and emergency worker radiological exposure management within the 10-mile Emergency Planning Zone. Appropriate dosimetry, record-keeping documents, and information on how to manage each emergency workers' dose was discussed by the Dosimetry Control Officer (DCO). Equipment requiring calibration and testing was within proper dates. The DCO provided instructions on potassium iodide and instructions on when to ingest.

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.
- 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

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

The State of Illinois demonstrated the Target Capability of Emergency Public Safety and Security Response through interview, which included the distribution of dosimetry, emergency worker radiological exposure management, and the capability to implement Traffic and Access Control Posts (TACPs) within the 10-mile Emergency Planning Zone. During the interview, the Trooper demonstrated knowledge of the provisions of the Emergency Operations Plan related to the establishment of TACPs in addition to the use of the appropriate dosimetry procedures, documentation and communication equipment including portable radios, cell phones and mobile data terminals. This included the provision of dosimetry and the ability to manage emergency worker radiological exposure including the decision to implement KI.

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.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

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

Ottawa Fire Department Ambulance Service effectively demonstrated the Target Capability of Emergency Triage and Pre-Hospital Treatment. The use of cellular telephone and narrow band radio were demonstrated and capable of supporting communications. The Ottawa Fire Department Ambulance Service personnel demonstrated patient handling, care, and transportation of a potentially contaminated medical victim. Medical care took priority over monitoring, decontamination, and contamination control efforts.

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

- a. MET: 1.d.1, 1.e.1, 6.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: 3.a.1.

ISSUE NO.: 34-12-3a1-A-05

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

CONDITION: The Ottawa Fire Department Medic Unit 8 was not issued Dosimetry or potassium iodide (KI) for a medical assignment within an evacuated area of the LaSalle County Station (LCS) 10-mile Emergency Planning Zone (10-mile EPZ).

POSSIBLE CAUSE: Procedures did not call for the issuance of Dosimetry or KI.

REFERENCE: Illinois Plan for Radiological Accidents (IPRA), page I-10
Radiological Task Force Standard Operating Procedure RTF-RAFT-11, page 2
Radiological Emergency Preparedness Program Manual, pages II-97 through 99

EFFECT: Medic Unit 8 personnel could not monitor their exposure to radiation while retrieving a patient from a contaminated, evacuated area within the LCS 10-mile EPZ and could have exceeded their dosimeter limits.

RECOMMENDATION: Issue each Medic Unit 8 personnel Permanent Record Dosimeters (PRDs), appropriate Direct-Reading Dosimeters (DRDs), and KI for medical missions within the LCS 10-mile EPZ.

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

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

The Order of Saint Francis (OSF) Saint Elizabeth's Hospital demonstrated the Target Capability of Emergency Triage and Pre-Hospital Treatment. Appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and medical services to contaminated, injured individuals were sufficient to support emergency operations. OSF Saint Elizabeth's Hospital successfully demonstrated communications systems necessary to support emergency operations between the Emergency Department (ED) and ambulances. Sufficient quantities of Personal Protective Clothing (PPE), Radiation Emergency Area (REA) contamination control supplies, and personnel were available. The Nuclear Medicine Department and the ED provided calibrated contamination detection survey meters. The Radiation Safety Office managed radiological exposure to emergency workers in accordance with the plans and procedures. The OSF Saint Elizabeth's Hospital Radiological Disaster Plan stated that life-threatening emergencies always had priority over concerns involving radioactive contamination. Actions taken by the OSF Saint Elizabeth's Hospital personnel indicated awareness of the priority of treating serious medical conditions over contamination concerns.

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

- a. MET: 1.d.1, 1.e.1, 6.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: 3.a.1.

ISSUE NO.: 34-12-3a1-P-04

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

CONDITION: The Decontamination Team at the Order of Saint Francis (OSF) Saint Elizabeth's Hospital was not issued any type of Direct Reading Dosimeter (DRD) or Optically Sensitive Luminescence Dosimeter (OSLD) while in the Radiation Emergency Area (REA). The emergency workers did not have a method to measure exposure.

POSSIBLE CAUSE: The issuance of dosimetry (individual or group) is not specified in the OSF Saint Elizabeth Hospital Standard Operating Guide (SOG).

REFERENCE: NUREG 0654; Planning Standard K; Section 2, 3.a, 3.b, 4

EFFECT: Correct the OSF Saint Elizabeth Hospital SOG to reflect the issuance of dosimetry to the Decontamination Team and provide training on the use of same.

RECOMMENDATION: Correct the OSF Saint Elizabeth Hospital SOG to reflect the issuance of dosimetry to the Decontamination Team and provide training on the use of same.

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

3.3.1.19 State of Illinois - Joliet Junior College - Evacuee Monitoring

The State of Illinois demonstrated the Target Capability for Evacuee Monitoring. The State established adequate facilities, resources, and trained personnel to provide monitoring of evacuees.

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

- a. MET: 1.c.1, 1.d.1, 1.e.1, 6.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: 6.a.1.

ISSUE NO.: 34-12-6a1-A-03

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

CONDITION: The decontamination staff had the evacuee place her contaminated hands on the wall of the decontamination facility to steady herself while personnel surveyed her feet. No procedure was in place to either monitor the wall or decontaminate it prior to a subsequent evacuee placing his/her hands on the wall. Contamination could be spread to subsequent evacuees.

POSSIBLE CAUSE: No alternate provisions are in-place to enable evacuees to steady themselves during foot surveys without preventing the spread of contamination from their hands to the wall.

REFERENCE: Radiological Task Force Standard Operating Procedure RTF-RAFT-4
NUREG-0654/FEMA-REP-1 J.12

EFFECT: The use of the unprotected wall could result in contamination to the facility and potential contamination to other evacuees touching the wall.

CORRECTIVE ACTION DEMONSTRATED: During a discussion with the controller and the participants, the decontamination personnel recognized the possibility of contamination to the wall that could be transferred from the evacuee's hands. A recommendation was made to either install protective covers over a section of the wall or the use of a device, such as a walker with protective covers, either of which could be removed if it was determined that an evacuee's hands were contaminated.

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

3.3.1.20 State of Illinois - Joliet Junior College - Evacuee Decontamination

The State of Illinois demonstrated the Target Capability for Evacuee Decontamination. The State established adequate facilities, resources, and trained personnel to provide decontamination of evacuees of the LaSalle County Station 10-mile Emergency Planning Zone.

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

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

3.3.1.21 State of Illinois - Joliet Junior College - Evacuee EW Monitoring and Decontamination of Equipment/Veh

The State of Illinois demonstrated the Target Capability for Emergency Worker Monitoring and Decontamination of Equipment and Vehicles. The State had adequate procedures and resources for accomplishment of monitoring and decontamination of emergency worker equipment

including emergency worker and evacuee vehicles.

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

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

3.3.1.22 State of Illinois - Joliet Junior College - Evacuee Registration

The State of Illinois demonstrated the Target Capability for Evacuee Registration. The State had the capability to establish adequate facilities, resources, and trained personnel to provide monitoring and registration of evacuees.

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

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

3.3.1.23 State of Illinois - Joliet Junior College - Congregate Care Center

The State of Illinois demonstrated the Target Capability of Congregate Care Center (CCC) at the Joliet Junior College. As part of the LaSalle County Station (LCS) Radiological Emergency Preparedness Exercise, the American Red Cross (ARC) demonstrated the capability to provide resources and trained personnel to evacuees. The ARC, responsible for CCC activities in Will County, successfully demonstrated that the CCC has the resources to provide services and accommodations consistent with ARC planning guidelines.

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

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

3.3.2 Risk Jurisdictions

3.3.2.1 LaSalle County - Initial Warning Point

The LaSalle County Initial Warning Point (IWP), located in the LaSalle County Sheriff's Dispatch Center, demonstrated the Target Capability of Emergency Operations Center Management. The IWP used effective procedures to alert, notify, and mobilize emergency personnel and activate facilities in a timely manner. Dispatchers were familiar with their nuclear incident notification procedures. There are redundant communication systems available at the Dispatch Center, and primary and backup systems were used effectively during this exercise.

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

The LaSalle County Emergency Operations Center (EOC) demonstrated the Target Capability of Emergency Operations Center Management by activities including the use of effective procedures to alert, notify and mobilize emergency personnel and activate facilities in a timely manner. The focus always remained on the primary objective, which was protecting the public health and safety of those who live and work in local communities. The LaSalle Emergency Management Agency (EMA) Director fully demonstrated the decision-making process involving

appropriate factors and necessary coordination when making Protective Action Decisions. Direction and control for the overall response effort of the LaSalle County EOC was successfully demonstrated by the LaSalle County Board Chairperson and the EMA Director.

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

- a. MET: 1.c.1, 1.d.1, 1.e.1, 2.b.2, 2.c.1, 2.e.1, 3.a.1, 3.b.1, 3.c.1, 3.c.2, 3.d.1, 3.d.2, 3.f.1, 5.a.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: 1.a.1.

ISSUE NO.: 34-12-1a1-P-01

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

CONDITION: The LaSalle County Plan and the Standard Operating Procedure for the LaSalle County Sherriff's Telecommunicator are not in concert.

The LaSalle County plan (dated August 2012 - page 5) states that the LaSalle County Sherriff's Telecommunicator will complete a NARS form and then verify the information by return call to the Illinois Emergency Management Agency (IEMA) Telecommunicator. The verification call is always made to the IEMA Telecommunicator whether the notification comes from IEMA or the utility. After verifying the NARS message, the LaSalle County Sherriff's Telecommunicator will notify the LaSalle County EMA Director or their alternate.

The Standard Operating Procedure for the LaSalle County Sherriff's Telecommunicator (dated August 2012 – page 61) states the LaSalle County Sherriff's Telecommunicator will verify the NARS message with the IEMA Telecommunicator by calling 800/782-7860 or the number provided under Item 11 on the NARS form. If a Telecommunicator is on duty in the Sheriff's office and the LaSalle County EOC, the Telecommunicator in LaSalle County EOC will verify the NARS message with the IEMA Telecommunicator.

POSSIBLE CAUSE: During annual plan and standard operating procedure updates, the two documents were not updated in sync.

REFERENCE: The LaSalle County plan (dated August 2012 - page 5) and the Standard Operating Procedure for the LaSalle County Sheriff's Telecommunicator (dated August 2012 – page 61).

EFFECT: Could lead to confusion on who has the ultimate responsibility regarding the completion of the NARS verification process.

RECOMMENDATION: Amend either the plan or the standard operating procedure to reflect the same verbiage.

- 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

The LaSalle County Sheriff's Department demonstrated the Target Capability of Emergency Public Safety and Security Response through interview which included the distribution of dosimetry, emergency worker radiological exposure management, and the capability to implement Traffic and Access Control Posts (TACPs) within the 10-mile Emergency Planning Zone. During the interview, the Deputy demonstrated knowledge of the provisions of the Emergency Operations Plan related to the establishment of TACPs in addition to the use of the appropriate dosimetry procedures, documentation and communication equipment including portable radios, cell phones and mobile data terminals. This included the provision of dosimetry and the ability to manage emergency worker radiological exposure including the decision to implement KI.

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.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

LaSalle County demonstrated the Target Capability of Emergency Public Information and Warning associated with primary alerting and notification of the public was completed in a timely manner. Following the decision by County emergency management officials to notify the public of an emergency situation at the LaSalle County Station, Radio Station WCMY/WRKX personnel demonstrated a thorough understanding of their equipment, the EAS process and executed their duties in a timely and professional manner.

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 - Ottawa Police Department - Traffic and Access Control Post - Dosimetry Briefing

The Ottawa Police Department successfully demonstrated the Target Capability of Emergency Public Safety and Security Response through interview which included the distribution of dosimetry and emergency worker radiological exposure management within the 10-mile Emergency Planning Zone. Appropriate dosimetry, record-keeping documents, and information on how to manage each emergency workers dose was discussed by the Dosimetry Control Officer (DCO). Equipment requiring calibration and testing was within proper dates. The DCO provided instructions on potassium iodide and instructions on when to ingest.

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

-
- a. MET: 1.e.1, 3.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

3.3.2.6 LaSalle County - Ottawa Police Department - Traffic and Access Control Post

The Ottawa Police Department demonstrated the Target Capability of Emergency Public Safety and Security Response through interview which included the distribution of dosimetry, emergency worker radiological exposure management, and the capability to implement Traffic and Access Control Posts (TACPs) within the 10-mile Emergency Planning Zone. During the interview, the Officer demonstrated knowledge of the provisions of the Emergency Operations Plan related to the establishment of TACPs in addition to the use of the appropriate dosimetry procedures, documentation and communication equipment including portable radios, cell phones and mobile data terminals. This included the provision of dosimetry and the ability to manage emergency worker radiological exposure including the decision to implement KI.

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.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 LaSalle County - Allen-Otter Creek Comm. Consolidated SD #65 - Evacuation School

LaSalle County demonstrated the Target Capability of Citizen Evacuation and Shelter-in-Place for school children. The Allen-Otter Creek Community Consolidated School District representative described plans and procedures to safely evacuate students from the LaSalle County Station Emergency Planning Zone and reunite them with their families. The school

district demonstrated sufficient personnel, current contact information, emergency worker dosimetry, and communications capabilities to notify families and guardians regarding how to reunite with evacuated students.

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.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

3.3.2.8 LaSalle County - Ottawa School District #141 - Evacuation School

LaSalle County demonstrated the Target Capability of Citizen Evacuation and Shelter-in-Place for school children. The Ottawa School District representative described plans and procedures to safely evacuate students from the LaSalle County Station Emergency Planning Zone and reunite them with their families. The school district demonstrated sufficient personnel, current contact information, emergency worker dosimetry, and communications capabilities to notify families and guardians regarding how to reunite with evacuated students.

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

SECTION 4: CONCLUSION

No Deficiencies were identified for any jurisdiction during this exercise.

There were three Areas Requiring Corrective Action (ARCAs) identified during this exercise for the State of Illinois. Two ARCAs were successfully re-demonstrated; one ARCA remains unresolved. There were no ARCAs identified for LaSalle County.

The remaining ARCA for the State of Illinois was identified under Criterion 3.a.1 – The OROs issue appropriate dosimetry, KI, and procedures, and manage radiological exposure to emergency workers in accordance with the plans/procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart. Appropriate record-keeping of the administration of KI for emergency workers is maintained. The ARCA was identified whereby the Ottawa Fire Department Medic Unit 8 was not issued Dosimetry or potassium iodide (KI) for responding to a medical assignment in an evacuated area within the LaSalle County Station's 10-mile Emergency Planning Zone.

There were two Plan Issues identified during this exercise; one for LaSalle County and the other for Order of Saint Francis (OSF) Saint Elizabeth Hospital. There were no Plan Issues identified for the State of Illinois.

The Plan Issue for LaSalle County was identified under Criterion 1.a.1 – OROs use effective procedures to alert, notify, and mobilize emergency personnel and activate facilities in a timely manner, whereby the LaSalle County Plan and the Standard Operating Procedure for the LaSalle County Sheriff's Telecommunicator have inconsistencies between the documents.

The Plan Issue for OSF Saint Elizabeth's Hospital whereby the decontamination team was not issued any type of dosimetry Direct Reading Dosimeter (DRD) or Optically Sensitive Luminescence Dosimeter (OSLD) while in the Radiation Emergency Area (REA). The emergency workers did not have a method to measure exposure.

Based on the results of the August 1, 2012, 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: IMPROVEMENT PLAN

Issue Number: 34-12-1a1-P-01		Criterion: 1a1
<p>ISSUE: The LaSalle County Plan and the Standard Operating Procedure for the LaSalle County Sherriff's Telecommunicator are not in concert.</p> <p>The LaSalle County plan (dated August 2012 - page 5) states that the LaSalle County Sherriff's Telecommunicator will complete a NARS form and then verify the information by return call to the Illinois Emergency Management Agency (IEMA) Telecommunicator. The verification call is always made to the IEMA Telecommunicator whether the notification comes from IEMA or the utility. After verifying the NARS message, the LaSalle County Sherriff's Telecommunicator will notify the LaSalle County EMA Director or their alternate.</p> <p>The Standard Operating Procedure for the LaSalle County Sherriff's Telecommunicator (dated August 2012 – page 61) states the LaSalle County Sherriff's Telecommunicator will verify the NARS message with the IEMA Telecommunicator by calling 800/782-7860 or the number provided under Item 11 on the NARS form. If a Telecommunicator is on duty in the Sheriff's office and the LaSalle County EOC, the Telecommunicator in LaSalle County EOC will verify the NARS message with the IEMA Telecommunicator.</p> <p>RECOMMENDATION: Amend either the plan or the standard operating procedure to reflect the same verbiage.</p> <p>CORRECTIVE ACTION DESCRIPTION:</p>		
CAPABILITY:	PRIMARY RESPONSIBLE AGENCY:	
CAPABILITY ELEMENT:	START DATE:	
AGENCY POC:	ESTIMATED COMPLETION DATE:	

Issue Number: 34-12-3a1-P-04		Criterion: 3a1
<p>ISSUE: The Decontamination Team at the Order of Saint Francis (OSF) Saint Elizabeth's Hospital was not issued any type of Direct Reading Dosimeter (DRD) or Optically Sensitive Luminescence Dosimeter (OSLD) while in the Radiation Emergency Area (REA). The emergency workers did not have a method to measure exposure.</p> <p>RECOMMENDATION: Correct the OSF Saint Elizabeth Hospital SOG to reflect the issuance of dosimetry to the Decontamination Team and provide training on the use of same.</p> <p>CORRECTIVE ACTION DESCRIPTION:</p>		
CAPABILITY:	PRIMARY RESPONSIBLE AGENCY:	
CAPABILITY ELEMENT:	START DATE:	
AGENCY POC:	ESTIMATED COMPLETION DATE:	

Issue Number: 34-12-3a1-A-05		Criterion: 3a1	
ISSUE: The Ottawa Fire Department Medic Unit 8 was not issued Dosimetry or potassium iodide (KI) for a medical assignment within an evacuated area of the LaSalle County Station (LCS) 10-mile Emergency Planning Zone (10-mile EPZ).			
RECOMMENDATION: Issue each Medic Unit 8 personnel Permanent Record Dosimeters (PRDs), appropriate Direct-Reading Dosimeters (DRDs), and KI for medical missions within the LCS 10-mile EPZ.			
CORRECTIVE ACTION DESCRIPTION:			
CAPABILITY:		PRIMARY RESPONSIBLE AGENCY:	
CAPABILITY ELEMENT:		START DATE:	
AGENCY POC:		ESTIMATED COMPLETION DATE:	

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 August 1, 2012. Also included are times notifications were made to the participating jurisdictions/functional entities.

Table 1 - Exercise Timeline
DATE: 2012-08-01, SITE: LaSalle County Station, IL

Emergency Classification Level or Event	Time Utility Declared	IL - SIRC	IL - REAC	IL - UAC	IL - JIC	LAS - EOC
Unusual Event	NA	NA	NA	NA	NA	NA
Alert	0812	0826	0834	0850	1015	0843
Site Area Emergency	0936	0956	0956	0956	1017	0957
General Emergency	1113	1122	1122	1130	1200	1133
Simulated Rad. Release Started	1107	1122	1107	1130	1200	1133
Simulated Rad. Release Terminated	NA	NA	NA	1258	NA	NA
Facility Declared Operational		0900	0853	0908	0945	0915
Declaration of State/Local Emergency		1155	NA	1202	NA	1048
Exercise Terminated		1256	1250	1258	1300	1255
Early Precautionary Action: State issued order to evacuate state parks and hunting areas		1028	NA	1030	NA	NA
Early Precautionary Action: State/County issued Livestock Advisory		1004	1015	1022	1022	1010
Early Precautionary Action: State issued air space restriction around LaSalle County Station		1017	NA	1018	NA	NA
Early Precautionary Action: Evacuate schools and/or special populations		NA	NA	NA	NA	1009
Early Precautionary Action: State issued rail and water traffic restrictions		1030	NA	1049	NA	NA
General Information Message		1005	NA	NA	1018	1000
1st Siren Activation		NA	NA	NA	NA	1005
1st EAS or EBS Message		NA	NA	NA	NA	1010
Protective Action Recommendation: Evacuate Sub-Areas 1 and 3		1131	1124	NA	NA	NA
Protective Action Decision: Evacuate Sub-Areas 1 and 3		NA	NA	NA	NA	1140
Siren Activation		NA	NA	NA	NA	1145
EAS or EBS Message		NA	NA	NA	NA	1148
KI Administration Decision: KI was not required to be administered		1124	1124	NA	NA	NA

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

ICFI ICF International Consulting

Title	Name	Organization
Radiological Assistance Committee, Chairman	William E. King	DHS/FEMA
Exercise Director	Dwaine Warren	DHS/FEMA
Senior Specialist	Stephen Tulley	DHS/FEMA
Site Specialist	Todd M. Gemske	DHS/FEMA
Team Leader - Illinois	Dan Kanakares	DHS/FEMA
Team Leader - LaSalle County	Dave Ortman	DHS/FEMA

DATE: 2012-08-01, SITE: LaSalle County Station, IL

LOCATION	EVALUATOR	AGENCY
State of Illinois - Initial Warning Point	Christopher Bellone	FEMA RV
State of Illinois - State of Illinois Response Center	Christopher Bellone Edward Diaz	FEMA RV FEMA RV
State of Illinois - Radiological Emergency Assessment Center	Thomas Essig	ICFI
State of Illinois - Unified Area Command	Bruce Swiren	ICFI
State of Illinois - Radiological Assessment Field Team	Michael Howe	FEMA HQ
State of Illinois - Field Monitoring Team - 1	John Wills	ICFI
State of Illinois - Field Monitoring Team - 2	Michael Petullo	ICFI
State of Illinois - Radiological Assessment Field Team - Emergency Worker Monitoring and Decontamination of Equipment	Michael Howe	FEMA HQ
State of Illinois - Mobile Laboratory	Cheryl Weaver	ICFI
State of Illinois - Joint Information Center	John D. Simpson	FEMA RIV
State of Illinois - Public Inquiry Phone Bank	Edward Diaz	FEMA RV
State of Illinois - Emergency Operations Facility	John D. Simpson	FEMA RIV
State of Illinois - LaSalle County Emergency Operations Center - Illinois State Liaison	David Ortman	FEMA RV
State of Illinois - LaSalle County Emergency Operations Center - Illinois State Radiological Advisor	David Ortman	FEMA RV
State of Illinois - Illinois State Police District 17 Headquarters - Dosimetry Control Officer Briefing	Thomas Essig	ICFI
State of Illinois - Illinois State Police District 17 Headquarters - Traffic and Access Control Post	Bruce Swiren	ICFI
State of Illinois - Ottawa Fire Department Ambulance - Medical Service - Transportation	John Wills	ICFI
State of Illinois - Ottawa Community Hospital - Medical Service - Facility	Michael Petullo	ICFI
State of Illinois - Joliet Junior College - Evacuee Monitoring	Cheryl Weaver	ICFI
State of Illinois - Joliet Junior College - Evacuee Decontamination	Cheryl Weaver	ICFI
State of Illinois - Joliet Junior College - Evacuee EW Monitoring and Decontamination of Equipment/Veh	Edward Diaz	FEMA RV
State of Illinois - Joliet Junior College - Evacuee Registration	Christopher Bellone	FEMA RV
State of Illinois - Joliet Junior College - Congregate Care Center	Christopher Bellone	FEMA RV
LaSalle County - Initial Warning Point	Gary Bolender	ICFI
LaSalle County - Emergency Operations Center	Bridget Ahlgrim Henry Christiansen Edward Golinski	FEMA HQ ICFI FEMA RV
LaSalle County - Emergency Operations Center - Traffic and Access Control Post	Bridget Ahlgrim	FEMA HQ
LaSalle County - Emergency Broadcast System Station - WCMY/WRKX	Gary Bolender	ICFI
LaSalle County - Ottawa Police Department - Traffic and Access Control Post - Dosimetry Briefing	Todd Gemske	FEMA RV
LaSalle County - Ottawa Police Department - Traffic and Access Control Post	John D. Simpson	FEMA RIV
LaSalle County - Allen-Otter Creek Comm. Consolidated SD #65 - Evacuation School	Daniel Kanakares	FEMA RV
LaSalle County - Ottawa School District #141 - Evacuation School	Gary Bolender	ICFI
* Team Leader		

APPENDIX D: ACRONYMS AND ABBREVIATIONS

Acronym	Meaning
AAR	After Action Report
ALARA	As Low As Reasonable Achievable
ANI	American Nuclear Insurers
ARC	American Red Cross
ARM	Alarming Rate Meter
CCC	Congregate Care Center
CDE	Committed Dose Equivalent
CH	County Highway
CMS	Central Management Services
DCO	Dosimetry Control Officer's
DRD	Direct Reading Dosimeter
EAS	Emergency Alerting System
EBS	Emergency Broadcast Station
ECL	Emergency Classification Level
ED	Emergency Department
EMA	Emergency Management Agency
EMC	Emergency Management Coordinator
EMS	Emergency Medical Service
EOC	Emergency Operations Center
EOF	Emergency Operations Facility
EPA	Environmental Protection Agency
EPZ	Emergency Planning Zone
ERT	Emergency Response Telecommunication
ERTC	Emergency Response Telecommunications Center
FEMA	Federal Emergency Management Agency
GE	General Emergency
GM	Geiger- Mueller
HP	Health Physics
HPS	Health Physics Specialist
IEMA	Illinois Emergency Management Agency
IEPA	Illinois Environmental Protection Agency
ILS	Intermediate Life Support
ING	Illinois National Guard
IP	Improvement Plan

ISP	Illinois State Police
IT	Information Technology
IWP	Initial Warning Point
JIC	Joint Information Center
JIS	Joint Information System
LCS	LaSalle County Station
LD	Luminescent Dosimeter
MCR	Main Control Room
MRT	Medical Radiation Technician
NARS	Nuclear Accident Reporting System
NMT	Nuclear Medicine Technician
NRC	Nuclear Regulatory Commission
OSLD	Optically Stimulated Luminescent Dosimeter
PAD	Protective Action Decision
PAR	Protective Action Recommendation
PIO	Public Information Officer
PNS	Prompt Notification System
PPE	Personal Protective Equipment
PRD	Permanent Record Dosimeter
RA	Radiological Advisor
RAC	Regional Assistance Committee
RAFT	Radiological Assessment Field Team
RAP	Radiological Assistance Program
RCS	Reception Center Supervisor
REA	Radiation Emergency Area
REAC	Radiological Emergency Assessment Center
REP	Radiological Emergency Preparedness
RN	Registered Nurse
RTF	Radiological Task Force
SAE	Site Area Emergency
SIRC	State Incident Response Center
SOG	Standard Operating Guide
SR	State Route
TACP	Traffic Access Control Post
TC	Transportation Coordinator
TEDE	Total Effective Dose Equivalent
TSC	Technical Support Center
UAC	Unified Area Command
URI	Unified RASCAL Interface
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 Full Participation Plume Exposure Pathway Exercise on August 1, 2012, and the offsite Extent-of-Play agreement accepted by DHS/FEMA Region V on July 2, 2012. The exercise criteria, contained in the FEMA Radiological Emergency Preparedness (REP) Program Manual (April 2012), 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
August 1, 2012**

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 fully activated. 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) and mobile lab will be activated. 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. A rumor control phone bank for public inquiries will be operated by the State during the exercise in a room adjacent to the SIRC.

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, RAFT, the UAC and the JIC. Coordination will be demonstrated between the SIRC, the REAC, RAFT, 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 31, 10:30 a.m., 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 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 groups of people with disabilities and those with access/functional needs.

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

This criterion will not be demonstrated during this exercise.

EVALUATION AREA 3 - PROTECTIVE ACTION IMPLEMENTATION

Criterion 3.a.1: The OROs issue appropriate dosimetry, KI, and procedures, and manage radiological exposure to emergency workers in accordance with the plan and procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart. Appropriate record-keeping of the administration of KI for emergency workers is maintained.

This will be demonstrated during the ISP DCO briefing/TAC interview on July 31, 10:30 a.m., at the ISP District 17 Headquarters in LaSalle.

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

The State of Illinois does not currently recommend the use of KI by the general public and, as such, this criterion will not be demonstrated during this exercise.

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

This criterion does not apply to the State of Illinois.

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

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 31, 10:30 a.m., 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 during the post-emergency phase are coordinated with appropriate organizations and implemented.

This criterion will not be demonstrated during this exercise.

EVALUATION AREA 4 - FIELD MEASUREMENT AND ANALYSIS

Criterion 4.a.1: [RESERVED]

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

This criterion will be demonstrated during this exercise at RAFT.

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 be demonstrated by the field teams and information will be coordinated with RAFT Command. Two field teams will be evaluated. Each team will take an air sample with particulate filters. This criterion may be demonstrated at the staging area or other location out of sequence to allow for timely exercise play.

Criterion 4.b.1: The field teams demonstrate the capability to make appropriate measurements and to collect 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 be demonstrated during this exercise.

EVALUATION AREA 5 - EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

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

The State's role in demonstrating this criterion is limited to transmitting the State's 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: Backup alert and notification of the public is completed within a reasonable time following the detection by the ORO of a failure of the primary alert and notification system.

This criterion does not apply to the State of Illinois.

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

This criterion does not apply to the State of Illinois.

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

This will be demonstrated at the JIC in coordination with the 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.

A rumor control phone bank for public inquiries will be operated by the State during the exercise in the SIRC or in a room adjacent to the SIRC.

EVALUATION AREA 6 - SUPPORT OPERATION/FACILITIES

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

This criterion will be demonstrated at Joliet Junior College on July 31, with set up beginning at 9:30 a.m. and demonstration beginning approximately 10:30 a.m. Two portal monitors will be set up during the demonstration. Evacuee monitoring and decontamination will be demonstrated. The appropriate number of evacuees will be processed to meet 20% in 12 hours requirement.

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

Criterion 6.b.1: The facility/ORO has adequate procedures and resources for the accomplishment of monitoring and decontamination of emergency workers and their equipment and vehicles.

This criterion will be demonstrated at RAFT. A portal monitor will be set up during the demonstration. At least two emergency workers will be monitored at RAFT. An emergency worker vehicle will be monitored. Decontamination of that vehicle will be simulated via an interview.

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

This criterion will be demonstrated at Joliet Junior College on July 31, with set up beginning at 9:30 a.m. and demonstration beginning approximately 10:30 a.m. Local organizations responsible for operating a reception and congregate care center will be present to demonstrate this criterion.

Criterion 6.d.1: The facility/ORO has the appropriate space, adequate resources, and trained personnel to provide transport, monitoring, decontamination, and medical services to contaminated injured individuals.

This criterion will be demonstrated during an out of sequence drill conducted at Ottawa Hospital in Ottawa on July 31, 10:00 a.m. (confirmed).

**LASALLE COUNTY EXTENT OF PLAY AGREEMENT
FOR THE
LASALLE STATION EXERCISE
August 1, 2012**

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 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 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 LaSalle County deputy demonstrating traffic and access control will be conducted at the LaSalle County EOC during the exercise. The DCO Briefing for the Ottawa Police Officer will be conducted out of sequence.

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 groups of people with disabilities and those with access/functional needs.

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 for groups of people with disabilities and those with access/functional needs.

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

This criterion does not apply to LaSalle County.

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

This criterion will be demonstrated during this exercise.

EVALUATION AREA 3 - PROTECTIVE ACTION IMPLEMENTATION

Criterion 3.a.1: The OROs issue appropriate dosimetry, KI, and procedures, and manage radiological exposure to emergency workers in accordance with the plan and procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart. Appropriate record-keeping of the administration of KI for emergency workers is maintained.

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 interview at the Allen Township Community Consolidated Unit School District #65 (Ransom, IL) on July 30th at 2:00 pm and Ottawa ESD #141 on July 30th at 1:00 pm, and the TAC/DCO demonstration at the Ottawa Police Department on July 30th at 3:00 pm. 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 in case a decision to recommend use of KI is made. Appropriate record keeping of the administration of KI for institutionalized individuals is maintained.

When notified by the State of Illinois to distribute and administer KI, LaSalle County officials will discuss the issuance of KI 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 school interviews. The State of Illinois does not recommend the use of KI by the general public and, as such, that portion of the criterion will not be demonstrated.

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

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

The Mobility Impaired List/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.

School interviews will be conducted at the Allen Township Community Consolidated Unit School District #65 (Ransom, IL) on July 30th at 2:00 pm and at the Ottawa ESD #141 on July 30th at 1:00 pm. The District Superintendent, a Teacher, the transportation coordinator (DCO), a bus driver and the maintenance supervisor will be present at the interviews.

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 during the exercise in the County EOC by the LaSalle County Sheriff's Department and at a separate TAC/DCO demonstration by the Ottawa Police Department on July 30th at 3:00 pm.

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 may be asked to drive to the selected post location for the demonstration; however, this may be simulated at the discretion of the evaluator. The staffing of the remaining posts will be simulated.

A TAC/DCO Demonstration will take place at the Ottawa Police Department on July 30th at 3:00 pm. An officer may be asked to drive to the selected post, however this may be simulated at the discretion of the evaluator.

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 during the post-emergency phase are coordinated with appropriate organizations and implemented.

This criterion will be demonstrated through discussions in the LaSalle County EOC. The State will participate to the extent necessary to support LaSalle County.

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

This criteria will not be demonstrated in this exercise by LaSalle County.

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

This criteria does not apply to 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 LaSalle County Station (LCS) REP Full Participation Plume Exposure Pathway exercise on August 1, 2012.

Results of a technical review of the scenario, submitted by the State of Illinois and Exelon Nuclear on June 4, 2012, 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 June 11, 2012, Extent-of-Play submission. The DHS/FEMA Region V accepted this exercise scenario on July 2, 2012.

During the exercise, in addition to information and data provided through the LCS 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 and the risk county of LaSalle for the August 1, 2012 Biennial Radiological Emergency Preparedness Exercise for the LaSalle County Station.

<h3>SCENARIO INFORMATION</h3>

- ❑ **Drill Time Line**
- ❑ **Narrative Summary**
- ❑ **Summary of Expected EALs and PARs**
- ❑ **Meteorology**

Scenario Timeline

EXERCISE TIME LINE – August 1, 2012

Scenario	
Winds are out of the east-northeast at 070°. No precipitation. Mild winds – 9 mph. Stability Class E.	
0755	Start Scenario – Crew Assumes Shift
0805 (ALERT T ₀)	Loss of Vacuum- Unit 1 Scram <ul style="list-style-type: none"> A loss of main condenser vacuum results in a Unit 1 Automatic Scram Automatic Scram fails to shutdown the reactor. (Reactor Protection System logic <i>electric</i> failure) Control rods fail to insert but Automatic Rod Insertion (ARI) is successful in shutting down the reactor Automatic scram was not successful as indicated by Reactor Power > 3% AND Manual scram/ARI actions are successful from Reactor Console as indicated by Reactor Power < 3% [T=0 for ALERT] Shift Manager declares ALERT (MA2) A limited number of Safety Relief Valves (SRVs) will be available to control cool down
0905	1 'A' Service water pump trip
0920	Command and Control turnover- Emergency Operations Facility for Protective Action Recommendations, notification and Field Monitoring Teams, Technical Support Center for classification
0930 (ALERT +85)	Large Break Loss Of Coolant Accident/Recirculation Line Rupture in containment/Reactor Pressure Vessel (RPV) Level drop/Drywell (DW) Rad increase <ul style="list-style-type: none"> Recirc Line break increases DW pressure DW radiation increases Condensate system failure – 1D Condensate pump experiences an over current, breaker does not trip and takes out Bus 151, (trips on fault) RPV inventory to DW. DW pressure exceeds Emergency Core Cooling System (ECCS) limit. RC3 – Reactor Coolant System leak > 1.77 psig. DW Radiation exceeds 200 R/hr. Fuel Failure- DW rad hi >100 R/hr (RC5), Fuel Failure- DW rad hi >190 R/hr (FC3) [T=0 for Site Area Emergency] RPV Level drops but greater than Top of Active Fuel (TAF), DW pressure exceeds ECCS limits (>1.77 psig). Fuel Failure occurs with Loss of Fuel Clad (DW rad hi >190 R/hr, FC5). Loss of RCS (RC3 and 5), and Loss of Fuel Clad, (FC5), SITE AREA EMERGENCY (FS1) DW sprays will not be available
1040	Recovery efforts in progress to restore electrical system (Bus 151)
1105 (SAE+95)	Containment Failure- release to environment <ul style="list-style-type: none"> Containment failure occurs with a penetration leak resulting in a Loss of Containment (CT3.1 [T=0 for General Emergency] / CT6.3) with previous Loss of RCS (RC3, RC5) and Loss of Fuel Clad (FC5) results in Loss of ALL three fission product barriers GENERAL EMERGENCY (FG1) Release in Progress - RCS to the DW to the Reactor Building to Standby Gas Treatment System to the environment MAX PARS (1, 2, 3, 4, 7)
1130	RS1 - conditions met
1230	Terminate Exercise

NARRATIVE SUMMARY

NORMAL OPERATIONS

0755 – 0804

The Operating Crew will be briefed and is expected to take the shift by 0755. Unit 1 is at full power, on-line for 225 days. Unit 2 is in shutdown mode 4, returning from a forced outage.

ALERT Onsite Actions

0805

AUTOMATIC SCRAM FAILURE

A loss of main condenser vacuum results in a Unit 1 Automatic Scram. The Automatic Scram fails to shutdown the reactor, (RPS logic electric failure). Control rods fail to insert.

Onsite Expected Response

Automatic scram was not successful as indicated by Reactor Power > 3% AND Manual scram/ARI actions are successful from Reactor Console as indicated by Reactor Power < 3%. Manual scram and mode switch to shutdown fail to insert control rods; however ARI is successful in shutting down the reactor. SM declares an **ALERT (MA2)**. All appropriate notifications (NRC, PA, Dialogic, Station Duty Manager, Nuclear Duty Officer, etc.) will be made.

Onsite Post Scram malfunctions

0815-0929

Main Steam Isolation Valve closure results from the loss of vacuum. A limited number of SRVs will be available to control cool down and 1 'A' Service Water pump will trip.

Onsite Expected Actions

Crew will address losses and attempt to control pressure with available equipment. 1 'A' Service Water pump will trip, the crew will start 1 'B' Service Water pump.

<u>Approx. Time</u>	<u>Event/Anticipated ORO Response to Alert NARS</u>
0800	Initial conditions/weather forecast message to players.
0805	An Alert is declared at LaSalle Station.
0820	<p>Exelon notifies the IEMA Telecommunicator of the ALERT via NARS.</p> <p>IEMA Telecommunicator verifies the NARS message.</p> <p>An IEMA Duty Officer contacts the LaSalle Station Shift Engineer.</p> <p>IEMA Telecommunicator notifies IEMA personnel of the ALERT per SOP.</p> <p>IEMA may activate the State of Illinois Response Center (SIRC) and Radiological Emergency Assessment Center (REAC), if appropriate.</p> <p>IEMA may dispatch liaisons to the County EOCs, Unified Area Command (UAC), Radiological Assessment Field Team (RAFT) Staging Area, Joint Information Center (JIC), Technical Support Center (TSC) and Emergency Operations Facility (EOF), if appropriate.</p> <p>IEMA notifies Governor's Office of the ALERT.</p> <p>IEMA Telecommunicator notifies appropriate State agencies of the ALERT.</p> <p>IEMA notifies FEMA of the ALERT.</p>
0835	<p>IEMA Telecommunicator notifies EPZ counties of the ALERT via NARS.</p> <p>County Telecommunicators complete and verify the NARS message.</p> <p>County Telecommunicators notify county officials and municipalities of the ALERT per SOP.</p> <p>Municipal Telecommunicators complete and verify the NARS message.</p> <p>Municipal Telecommunicators notify officials of the ALERT per SOP.</p> <p>The counties and municipalities may activate the EOCs, if appropriate.</p>

SITE AREA EMERGENCY Onsite Events

0930-1104

LARGE BREAK LOCA

A Large Break LOCA/Recirculation Line Rupture occurs in containment. RPV level will drop on the break. DW radiation will rapidly increase resulted in the loss of the fuel barrier. Additionally, a Condensate system failure occurs when 1D condensate pump experiences an over current fault and trips the breaker. However, the breaker does not trip and takes out Bus151 (trips on fault). RPV Level drops but stays greater than TAF. DW sprays will not operate. RWCU will not isolate as there is a failure in the group isolation logic, no loss of containment as there is no path to environment. 'A' SDC pump will trip after this event is in progress.

Onsite Expected Actions

Crew will address losses and attempt to control level with available equipment. DW sprays will not operate, but the crew will spray the suppression pool. DW pressure exceeds (>1.77 psig). Fuel Failure occurs with Loss of Fuel Clad (DW rad hi >190 R/hr, FC5). Loss of RCS (RC3 and 5), and Loss of Fuel Clad, (FC5) will result in declaration of **SAE- FS1**.

Approx.

<u>Time</u>	<u>Event/Anticipated ORO Response to SAE NARS</u>
0930	A SITE AREA EMERGENCY is declared at LaSalle Station.
0945	Exelon notifies the IEMA Telecommunicator of the SITE AREA EMERGENCY via NARS. IEMA Telecommunicator verifies the NARS message. REAC contacts the LaSalle Station Shift Engineer. SIRC is activated if not previously activated.
0945	SIRC notifies the Governor's Office and requests that a representative report to the State EOC. (Simulated) State dispatches liaisons to the County EOCs, UAC, RAFT, JIC, TSC and EOF, if not previously dispatched.

<u>Approx. Time</u>	<u>Event/Anticipated ORO Response to SAE NARS</u>
0945	<p>SIRC notifies FEMA of conditions. (Simulated)</p> <p>IEMA notifies State agencies</p> <ul style="list-style-type: none">- 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 <p>REAC contacts Federal agencies. (Simulated)</p> <p>REAC provides an update to the SIRC and County EOC Liaisons.</p> <p>REAC provides an update to the JIC.</p>
1000	<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.</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>

GENERAL EMERGENCY Onsite Events

1105-1230

CONTAINMENT FAILURE- GENERAL EMERGENCY, FG1 – MAX PARS

A containment failure occurs with a penetration leak in the Reactor Building (between 786' and 807') results in a Loss of Containment (CT3.1/CT6.3). Along with the Loss of RCS (RC3, RC5) and Loss of Fuel Clad (FC5), the result EAL declaration is a GENERAL EMERGENCY (FG1). A release in progress is occurring as SBTG release rates escalate, (Containment to Rx Bld to SBTG to Environs).

Onsite Expected Actions

Crew will address losses and recognize the on-going release. Based on Loss of Containment (CT3.1/CT6.3) with Loss of RCS (RC3, RC5) and Loss of Fuel Clad (FC5), a **GENERAL EMERGENCY (FG1)** will be declared. Loss of all three barriers results in a Release in Progress with **MAX PARS**. Later, a concurrent **RS1** results at 1130 as the release peaks. If blow down is required, the crew will initiate ADS. The ERO may elect to mitigate the leak through selected means. Additionally, the Field Monitoring Teams (FMT) will perform Objectives I.7 (post plume) and C.3 (Rad Support Services [IEMA/RAFT lab]) as an out-of sequence drill.

Approx.

<u>Time</u>	<u>Event/Anticipated ORO Response to GE NARS</u>
1105	A GENERAL EMERGENCY is declared at LaSalle Station.
1120	Exelon notifies the IEMA Telecommunicator of the GENERAL EMERGENCY via NARS. Protective actions are recommended. IEMA Telecommunicator verifies the NARS message. The SIRC and REAC evaluate the protective action recommendation.
1120	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.

Approx.

<u>Time</u>	<u>Event/Anticipated ORO Response to GE NARS</u>
1120	<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>
1135	<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 and the NARS message.</p> <p>Municipal Telecommunicators notify EOC staff.</p>

EXERCISE TERMINATION

1230

Exercise termination will occur when the Lead Scenario Controller, State Controller, FEMA, and the NRC determine that all objectives have been appropriately completed.

SUMMARY OF EXPECTED EALs AND PARs

Expected EALs and estimated times:

Time	EAL #	DESCRIPTION
0805	MA2	Unit 1 Automatic Scram failure Automatic Scram fails to shutdown the reactor and the manual actions taken from the reactor control console are successful in shutting down the reactor. EAL Threshold Values: 1. Automatic scram was not successful as indicated by Reactor Power > 3%. AND 2. Manual scram/ARI actions were successful from Reactor Console as indicated by Reactor Power ≤ 3%.
0930 (ALERT+85)	FS1	Large Break LOCA/Recirculation Line Rupture in containment/RPV Level drop/DW Rad increase - Loss or Potential Loss of ANY two barriers <ul style="list-style-type: none"> Recirculation Line break increases Drywell pressure and Drywell radiation increases Loss of RCS: (RC3) 1. Drywell pressure exceeds >1.77 psig AND 2. Drywell pressure rise due to RCS leakage. OR (RC5) Drywell radiation monitor reading > 1.0E+02 R/hr (100 R/hr). Loss of Fuel Clad: (FC5) Drywell radiation monitor reading > 1.90E+02 R/hr (190 R/hr).
1105 (SAE+95)	FG1	Containment failure - Penetration leak resulting in a Loss of Containment - Loss of ANY two barriers AND Loss or Potential Loss of third barrier. <ul style="list-style-type: none"> Loss of Containment: (CT3.1) Rapid unexplained drop in Drywell Pressure following initial pressure rise. OR (CT6.3) UNISOLABLE primary system leakage outside drywell resulting in EITHER: <ul style="list-style-type: none"> Secondary Containment area temperature > LGA-002, Maximum Safe operating levels. OR Secondary Containment radiation level > LGA-002, Maximum Safe operating levels. Loss of ALL Three Fission Product Barriers - with previous Loss of RCS (RC3, RC5) and Loss of Fuel Clad (FC5) results in GENERAL EMERGENCY (FG1) - MAX PARs. Release in Progress – path is RCS to the Drywell to the Rx Building to SBGT to the environment.
1130	RS1	Concurrent EAL conditions met.
1230		Termination <i>Termination is executed when consensus reached with all Exelon facilities, State of Illinois, and the NRC.</i>

Expected PARs: Wind from 070° (into 250°)

Time	Event	Release	Affected Counties	Subareas
0805	MA2 – ALERT	None	N/A	
0930	FS1 – Site Area Emergency	None	N/A	
1105	FG1 – General Emergency Max PARs- (0-5 miles radius, 10 miles downwind). Wind from 070° (into 250°)	Occurring		
			LaSalle	1, 2, 3, 4, 7

METEOROLOGY

The meteorology parameters from 0755 until termination are:

Wind from	070°
Wind speed	9.0 mph
Stability Class	E
Air temperature	75°F
Precipitation	None

RELEASE INFORMATION & DOSE PROJECTIONS

The release comes from a Containment break into the Reactor Building. The Release Path is RCS to the Drywell to the Rx Building to SBTG to the environment, *URI Release Path 'J' (Elevated)*. The following is the dose projection information at the peak release rate (*RS1*):

Peak Release Rate:	5.50E+07 μ Ci/sec (Max)
URI Release Path J:	<RCS><Drywell><Rx Bldg><SBTG><SBTG Vent><ENV>
Monitor	SBTG Rad Monitors (WRGM)
PRF:	1.6E-04
Time After Shutdown:	3:25 hours
Release Duration:	3:15 (Weekday, Day Time)
Core Damage:	~7% Clad damage

Distance	TEDE (mRem)	CDE (mRem)
SB	2.66 E+02	1.88 E+02
2 Miles	1.24 E+02	7.76 E+01
5 Miles	5.17 E+01	2.83 E+01
10 Miles	5.56 E+01	3.28 E+01

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