



**Homeland  
Security**

January 31, 2007

Mr. Jim Caldwell  
Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region III  
2443 Warrenville Road  
Lisle, Illinois 60542-4351

Dear Mr. Caldwell:

Enclosed is one copy of the Final Report for the November 15, 2006, Radiological Emergency Preparedness (REP) Plume Exposure Pathway Exercise for the LaSalle County Station. The State of Illinois, Grundy and LaSalle Counties, as well as the utility owner/operator, Exelon Nuclear, participated in this exercise.

There were no Deficiencies identified during this exercise. There were two Areas Requiring Corrective Action (ARCAs) identified during this exercise for the State of Illinois. One ARCA occurred under Criterion 1.c.1 – Direction and Control, whereby communication of important information was not shared between involved organizations in a timely manner. One ARCA occurred under Criterion 5.b.1 – Emergency Information and Instructions for the Public and Media, whereby persons were instructed to evacuate and at the same time tend to their livestock.

There were no ARCAs identified for Grundy County. There was one ARCA identified for LaSalle County under Criterion 1.c.1 - Direction and Control, whereby emergency information was not communicated to the public in a timely manner.

There was one prior ARCA identified for Grundy County under Criterion 5.b.1 - Emergency Information and Instructions for the Public and the Media that was resolved during this exercise. There was also one prior ARCA identified for LaSalle County under Criterion 5.b.1 - Emergency Information and Instructions for the Public and the Media that was resolved during this exercise.

A detailed discussion of these issues can be found in Part IV of the Final Report.

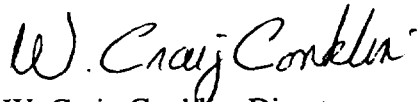
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Based on the results of the November 15, 2006, exercise, the offsite radiological emergency response plans and preparedness for the State of Illinois and affected local jurisdictions, site-specific to the LaSalle County Station, can be implemented 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 June 4, 1982, remains in effect.

If you should have any questions, please contact William E. King, Chairman, Regional Assistance Committee Chair, Chicago Field Office, at (312) 408-5575.

Sincerely,

A handwritten signature in black ink that reads "W. Craig Conklin". The signature is written in a cursive, flowing style.

W. Craig Conklin, Director  
Chemical and Nuclear Preparedness  
and Protection Division  
Office of Infrastructure Protection  
Preparedness Directorate

Enclosure

cc: Mr. Anthony McMurtray, Chief  
Inspection and Communication Section  
U.S. Nuclear Regulatory Commission  
Mail Stop O-6H2  
Washington, DC 20555-0001

# LaSalle County Station Exercise – November 15, 2006

Final Report – Radiological Emergency Preparedness Program

*February 13, 2007*



Homeland  
Security

*Chicago Field Office*





# Homeland Security

## **Final Exercise Report**

### **LaSalle County Station**

Licensee: **Exelon Energy**

Exercise Dates: **November 15, 2006**

Report Date: **February 13, 2007**

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**U.S. DEPARTMENT OF HOMELAND SECURITY**  
**CHICAGO FIELD OFFICE**

**536 South Clark Street - 6<sup>th</sup> Floor**  
**Chicago, Illinois 60605 - 1521**

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## **I. EXECUTIVE SUMMARY**

On November 15, 2006, a Radiological Emergency Preparedness (REP) Partial Participation Plume Exposure Pathway exercise was conducted for the 10-mile Emergency Planning Zone (EPZ) around the LaSalle County Station by the U.S. Department of Homeland Security (DHS), Chicago Field Office (CFO). The purpose of the exercise was to assess the level of State and local preparedness in responding to a radiological emergency. This exercise was held in accordance with DHS' 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 March 10, 2004. The qualifying emergency preparedness exercise was conducted on December 4, 1980.

DHS wishes to acknowledge the efforts of the many individuals who participated in this exercise. In the State of Illinois the risk counties of Grundy and LaSalle participated along with the 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 was evident during this exercise.

This Final Report contains the evaluation of the biennial exercise, and the evaluation of the following out-of-sequence activities: Illinois State Police (ISP) Dosimetry Control Officers Briefing, ISP Traffic and Access Control Point at the ISP District 17 Headquarters and Protective Actions for Schools (EV-2) Interview. The State and Local organizations except where noted in this report demonstrated knowledge of their emergency response plans and procedures and adequately implemented them

There were no Deficiencies identified during this exercise for any jurisdiction.

There were two Areas Requiring Corrective Action (ARCAs) identified during this exercise for the State of Illinois. One ARCA occurred under Criterion 1.c.1 – Direction and Control, whereby communication of important information was not shared between involved organizations in a timely manner. One ARCA occurred under Criterion 5.b.1 – Emergency Information and Instructions for the Public and Media, whereby persons were instructed to evacuate and at the same time tend to their livestock.

There were no ARCAs identified for Grundy County.

There was one ARCA identified for LaSalle County under Criterion 1.c.1 - Direction and Control, whereby emergency information was not communicated to the public in a timely manner.

There was one prior ARCA identified for Grundy County under Criterion 5.b.1 - Emergency Information and Instructions for the Public and the Media that was resolved during this exercise.

There was one prior ARCA identified for LaSalle County under Criterion 5.b.1 - Emergency Information and Instructions for the Public and the Media that was resolved during this exercise.



## II. INTRODUCTION

On December 7, 1979, the President directed FEMA to assume the lead responsibility for all offsite nuclear planning and response. DHS' activities are conducted pursuant to 44 Code of Federal Regulations (CFR) Parts 350, 351, and 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.

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

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

- Taking the lead in off-site 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 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 Radiological Preparedness Coordinating Committee (RPCC), which is chaired by DHS.

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

A REP Partial Participation Plume Exposure Pathway exercise was conducted on November 15, 2006, by DHS to assess the capabilities of State and local offsite emergency preparedness organizations in implementing their RERPs and procedures to protect the public health and safety during a radiological emergency involving the LaSalle County Station. The purpose of this exercise report is to present the exercise results and findings on the performance of the offsite response organizations (ORO) during a simulated radiological emergency.

The findings presented in this report are based on the evaluations of the Federal evaluation team. Final determinations were made by the DHS Chicago Field Office RPCC Chairman, and approved by DHS Headquarters.

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

- NUREG-0654/FEMA-REP-1, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980;
- FEMA-REP-14, "Radiological Emergency Preparedness Exercise Manual," September 1991 and
- FEMA "Radiological Emergency Preparedness: Exercise Evaluation Methodology; Notice" as published in the Federal Register Notice, Vol. 67, No. 80, dated April 25, 2002.

Section III of this report, entitled "Exercise Overview", presents basic information and data relevant to the exercise. This section of the report contains a description of the plume pathway EPZ, a listing of all participating jurisdictions and functional entities, which were evaluated, and a tabular presentation of the time of actual occurrence of key exercise events and activities.

Section IV of this report, entitled "Exercise Evaluation and Results," presents detailed information on the demonstration of applicable exercise criteria at each jurisdiction or functional entity evaluated in a jurisdiction-based, issues-only format. This section also contains: (1) descriptions of all Deficiencies and ARCAs 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, if applicable, and the status of the OROs' efforts to resolve them.

### **III. EXERCISE OVERVIEW**

Contained in this section are data and basic information relevant to the November 15, 2006, REP Partial Participation Plume Exposure Pathway exercise to test the offsite emergency response capabilities in the area surrounding the LaSalle County Station. This section of the exercise report includes a description of the 10-mile Emergency Planning Zone and a listing of all participating jurisdictions and functional entities which were evaluated, and a tabular presentation of the time of actual occurrence of key exercise events and activities.

#### **A. Plume Emergency Planning Zone Description**

The LaSalle County Station, Units 1 and 2, is located on a 3,060-acre site in Brookfield Township, 4 miles west of the LaSalle and Grundy Counties line. It is located in the northeastern portion of Illinois, approximately 7 miles south-southeast of the community of Marseilles, 4.5 miles south of the Illinois River, which runs east-west through LaSalle County and 6 miles southwest of the community of Seneca. The 10-mile plume 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.

Land use within five miles of the LaSalle County Station is primarily agricultural with some rural residences. The 200 permanent population within five miles of the LaSalle County Station is 2, 036. Between five and ten miles from the LaSalle County Station lie six communities with a total 2000 population of 8, 029. An additional 7,033 persons live in rural residences or on farmsteads for a projected total of 15,062 persons living between five and ten miles from the LaSalle County Station. There is a requirement to delineate areas to be sheltered or evacuated by easily recognizable boundaries; some of the boundaries extend beyond the circular EPZ.

Primary land use around the LaSalle County Station is agricultural, with crops of corn and soybean. The closest industries are located in the communities of Marseilles and Seneca.

Recreational facilities outside the municipalities include a 60-acre park with camping facilities on the southwest shore of the 2,058-acre cooling lake for the LaSalle County Station. The cooling lake, which occupies over two thirds of the 3,060 acre station site, has recreational boating and fishing. Spring Brook Marina on the Illinois River has facilities for 150 boats, and is just over 4 miles north-northeast of the LaSalle County Station. Five and one-half miles north-northwest of the Station is the 510-acre Illini State Park with camping, boating, picnicking and fishing.

Major transportation facilities in the LaSalle County Station EPZ are limited to Interstate 80, nine miles north of the Station and the Illinois Waterway, four and one-half miles north of the LaSalle County Station. Marseilles Lock and Dam, at river mile 244.5, is seven miles northwest. Five rail lines also run through the LaSalle County Station EPZ. Their location in the EPZ is described in relationship to the LaSalle County Station as follows: The Burlington Northern and Santa Fe Railway Company has two rail lines, a spur line into the Station from Ransom and the other line six miles from the Station running northeast to southwest; the CSX Transportation, Inc. is 5 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.

## **B. Exercise Participants**

The following agencies, organizations, and units of government participated in the LaSalle County Station REP Partial Participation Plume Exposure Pathway exercise on November 15, 2006:

### **STATE OF ILLINOIS**

Illinois Department of Natural Resources  
Illinois Department of Transportation  
Illinois Emergency Management Agency  
Illinois Environmental Protection Agency  
Illinois State Police

### **RISK JURISDICTIONS**

#### **GRUNDY COUNTY**

Grundy County Emergency Management Agency  
Grundy County Board  
Grundy County Health Department  
Grundy County Highway Department  
Grundy County Human Resources  
Grundy County Public Information Officer  
Grundy County Sheriff's Department  
Grundy County Superintendent of Schools

#### **LASALLE COUNTY**

Brookfield Township  
Grand Ridge Township  
LaSalle County Board  
LaSalle County Emergency Management Agency

LaSalle County Health Department  
LaSalle County Highway Department  
LaSalle County Public Information Officer  
LaSalle County Sheriff's Department  
LaSalle County School District  
Town of Marseilles  
Town of Seneca

## **RISK SCHOOL DISTRICTS**

Allen Township School District

## **PRIVATE/VOLUNTEER ORGANIZATIONS**

American Red Cross  
Amateur Radio Emergency Services  
Exelon Nuclear  
Emergency Broadcast System Stations -WYKT and WCMY/WRKX

**C. Exercise Timeline**

Table 1, on the following page, presents the times at which key events and activities occurred during the REP Partial Participation Plume Exposure Pathway exercise conducted on November 15, 2006, for the LaSalle County Station.

Table 1. Exercise Timeline

DATE AND SITE: November 15, 2006, LaSalle County Station, Plume Exercise

Emergency Classification Level or Event	Time Utility Declared	Time That Notification Was Received or Action was Taken					
		State of Illinois	REAC	Unified Area Command	Grundy County	LaSalle County	JIC
Unusual Event	NA	NA	NA	NA	NA	NA	NA
Alert	0820	0835	0843	0906	0919	0919	0858
Site Area Emergency	0947	1003	1003	1022	1022	1023	1006
General Emergency	1102	1118	1118	1135	1142	1148	1109
Start of Release of Radioactive Material	1102	1118	1118	1135	1142	1148	1109
Release Terminated	NA	NA	NA	NA	NA	NA	NA
Facility Declared Operational		0934	0910	0930	1010	0952	0930
Declaration of Local Emergency		NA	NA	NA	1057	NA	NA
Declaration of State of Disaster Emergency		1249	NA	1253	NA	NA	NA
Exercise Termination		1344	1330	1335	1330	1334	1330
Precautionary Action Decision: Livestock Advisory: Place Livestock on Stored Feed and Protective Water Within Sub-areas: 6, 7, 8, 10, 13, and 17		1131	NA	NA	NA	NA	1136
Precautionary Action Decision: Livestock Advisory: Within 10 miles of the LaSalle County Station		NA	NA	NA	NA	NA	1205
Precautionary Action Decision: Livestock Advisory: Added Sub-areas 9 and 11		1152	NA	NA	NA	NA	1211
Instructional Message: Stay tuned to EBS Radio Station Broadcast for Further Information-LaSalle County Only		NA	NA	NA	NA	1035	NA
Siren Activation:		NA	NA	NA	NA	1050	NA
EBS Message:		NA	NA	NA	NA	1053	NA
Protective Action Decision: Evacuate Sub-areas 1, 2, 3, 4, and 5		PAR 1136	NA	PAR 1136	NA	1210	NA
Siren Activation:			NA		NA	1215	NA
EBS Message:			NA		NA	1217	NA
Grundy County Alert & Notification Sequence		NA	NA	NA	1210	NA	NA
Siren Activation:		NA	NA	NA	1215	NA	NA
EBS Message:		NA	NA	NA	1221	NA	NA
Protective Action Decision: Evacuate Sub-areas 1, 2, 3, 4, 5, and 7		PAR 1245	NA	PAR 1245	NA	1302	NA
Siren Activation:			NA		NA	1310	NA
EBS Message:			NA		NA	1313	NA
KI Administration Decision: Radiological Assessment Team Only		NA	1101	NA	NA	NA	NA
KI Administration Decision: Emergency Workers and Immobile Populations		1158	1154	1116	1204	1206	1204

## IV. 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 November 15, 2006, REP Partial Participation Plume Exposure Pathway exercise to test the off-site emergency response capabilities of State and local governments in the 10-mile EPZ plume planning zone surrounding the LaSalle County Station.

Each jurisdiction and functional entity was evaluated based on its demonstration of exercise criteria delineated in Federal Register Notice: Vol. 67, No. 80, dated April 25, 2002. Detailed information on the exercise criteria and the extent-of-play agreement used in this exercise are found in Appendix 3 of this report.

### A. Summary Results of Exercise Evaluation

The matrix presented in Table 2, on the following page(s), presents the status of all exercise criteria from Federal Register Notice: Vol. 67, No. 80, dated April 25, 2002, which were scheduled for demonstration during this exercise by all participating jurisdictions and functional entities. Exercise criteria are listed by number and the demonstration status of those criteria are indicated by the use of the following letters:

- |       |   |   |
|-------|---|---|
| M     | – | Met (No Deficiency or ARCA assessed and no unresolved ARCAs from prior exercises) |
| D     | – | Deficiency assessed   |
| A     | – | ARCA(s) assessed or unresolved ARCA(s) from prior exercise(s)                     |
| N     | – | Not Demonstrated (Reason explained in Section IV.B.)                              |
| Blank | – | Not scheduled for demonstration   |



## Table 2. Summary Results of Exercise Evaluation

DATE AND SITE: November 15, 2006, LaSalle County Station (Sheet 1 of 1)

JURISDICTIONS/ FUNCTIONAL ENTITY	1. a. 1	1. b. 1	1. c. 1	1. d. 1	1. e. 1	2. a. 1	2. b. 1	2. b. 2	2. c. 1	2. d. 1	2. e. 1	3. a. 1	3. b. 1	3. c. 1	3. c. 2	3. d. 1	3. d. 2	3. e. 1	3. e. 2	3. f. 1	4. a. 1	4. a. 2	4. a. 3	4. b. 1	4. c. 1	5. a. 1	5. a. 2	5. a. 3	5. b. 1	6. a. 1	6. b. 1	6. c. 1	6. d. 1
<b>STATE OF ILLINOIS</b>																																	
Initial Warning Point	M			M																													
State Emergency Operations Center (SEOC)/ State of Illinois Response Center (SIRC)	M		A	M	M	M	M	M	M																		M			A			
Radiological Emergency Assessment Center (REAC)	M		M	M	M	M	M	M	M																					M			
Unified Area Command (UAC)	M		M	M	M			M								M	M																
Emergency Operations Facility	M			M																													
Joint Information Center (JIC)	M		M	M	M																									M			
State Liaison - Grundy County			M																														
Illinois Emergency Management Agency (IEMA) Radiological Advisor - Grundy County	M		M	M	M			M	M			M	M														M			M			
State Liaison - LaSalle County			M																														
IEMA Radiological Advisor - LaSalle County	M		M	M	M			M	M			M	M														M			M			
Illinois State Police (ISP) - LaSalle County	M			M	M											M	M																
Dosimetry Control Officer Briefing at the ISP District 17 Headquarters (HQ)					M							M	M																				
ISP Traffic and Access Control Point at the ISP District 17 HQ				M	M							M	M			M																	
<b>GRUNDY COUNTY</b>																																	
Initial Warning Point	M			M																													
Emergency Operations Center	M		M	M	M			M	M			M	M	M	M		M										M			M			
Emergency Broadcast System (EBS) Station Interview - WYKT				M																							M			M			
<b>LASALLE COUNTY</b>																																	
Initial Warning Point	M			M																													
Emergency Operations Center	M		A	M	M			M	M		M	M	M	M	M	M	M			M							M			M			
Traffic and Access Control Point				M	M							M	M			M																	
EBS Station Interview - WCMY/WRKX				M																							M			M			
Protective Actions for Schools (EV-2) Interview - Allen Township School District				M	M							M	M		M																		

LEGEND: M = Met (No Deficiency or ARCA(s) assessed)  
D = Deficiency assessed

A = ARCA(s) assessed (Not affecting health and safety of public)  
U = Unresolved ARCA(s) from prior exercise(s)

Blank = Not scheduled for demonstration  
N = Not demonstrated as scheduled (Reason explained in Section IV.B)

## B. Status of Jurisdictions Evaluated

This subsection provides information on the evaluation of each participating jurisdiction and functional entity in a jurisdiction-based, issues-only format. Presented below are definitions of the terms used in this subsection relative to criteria demonstration status.

- **Met** – Listing of the demonstrated exercise criteria under which no Deficiencies or ARCAs were assessed during this exercise and under which no ARCAs assessed during prior exercises remain unresolved.
- **Deficiency** – Listing of the demonstrated exercise criteria under which one or more Deficiencies were assessed during this exercise. Included is a description of each Deficiency and recommended corrective actions.
- **Area Requiring Corrective Action** – Listing of the demonstrated exercise criteria under which one or more ARCAs was assessed during the current exercise or ARCAs assessed during prior exercises remain unresolved. Included is a description of the ARCAs assessed during this exercise and the recommended corrective action to be demonstrated before or during the next biennial exercise.
- **Not Demonstrated** – Listing of the 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 in this exercise and the corrective actions demonstrated.
- **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 biennial exercise.

The following are definitions of the two types of exercise issues that maybe discussed in this report.

- A **Deficiency** is defined in FEMA-REP-14 as "...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."

- An **ARCA** is defined in FEMA-REP-14 as "...an observed or identified inadequacy of organizational performance in an exercise that is not considered, by itself, to adversely impact public health and safety."

DHS has developed a standardized system for numbering exercise issues (Deficiencies and ARCAs). This system is used to achieve consistency in numbering exercise issues among DHS Field Offices and site-specific exercise reports within each Field Office. It also is used to expedite tracking of exercise issues on a nationwide basis.

The identifying number of Deficiencies and ARCAs 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.
- **Exercise Year** – The last two digits of the year the exercise was conducted.
- **Criterion Number** – An alpha and two-digit number corresponding to the criteria numbers in the six Exercise Evaluation Areas described in Federal Register Notice, Vol. 67, No. 80, dated April 25, 2002, which amends FEMA-REP 14, Radiological Emergency Preparedness Exercise Manual.
- **Issue Classification Identifier** – (D = Deficiency, A = ARCA). Only Deficiencies and ARCAs are included in exercise reports. Planning Issues are reported to the State(s) via a letter from the Regional Director. Therefore, standardized issue numbers are not assigned to Planning Issues.
- **Exercise Identification Number** – A separate two- (or three-) digit indexing number assigned to each issue identified in the exercise.

# **1. STATE OF ILLINOIS**

## **1.1 Initial Warning Point**

- a. MET: Criteria 1.a.1 and 1.d.1**
- b. DEFICIENCY: NONE**
- c. AREAS REQUIRING CORRECTIVE ACTION: NONE**
- d. NOT DEMONSTRATED: NONE**
- e. PRIOR ISSUES – RESOLVED: NONE**
- f. PRIOR ISSUES – UNRESOLVED: NONE**

## **1.2 State Emergency Operations Center (SEOC)/ State of Illinois Response Center (SIRC)**

- a. MET: Criteria 1.a.1; 1.d.1; 1.e.1; 2.a.1; 2.b.1; 2.b.2; 2.c.1 and 5.a.1**
- b. DEFICIENCY: NONE**
- c. AREAS REQUIRING CORRECTIVE ACTION: Criteria 1.c.1 and 5.b.1**

**Issue Number:** 34-06-1.c.1-A-01

**Condition:** Communication of important information between involved organizations took an excessive amount of time, and new technical data, which supported more aggressive and timely actions, was not effectively passed along from the State REAC staff to State SIRC and County Operational Staff.

**Possible Cause:** Important information included in Utility NARS calls was processed through the State without a sense of urgency prior to its dissemination to the Counties. Additionally, new technical data, which significantly changed the urgency of accomplishing evacuations, was not passed along to State and County Operations Staff in a timely manner.

**Reference:** NUREG-0654, Criteria A.1.d.; A.2.a.b.

**Effect:** The Counties were not able to take concurrent actions at the time important information was disseminated, and the failure to pass along important technical data contributed to a “less than urgent” understanding of the situation by State SIRC and County Operations Staff, resulting in PADs being processed in a less timely manner.

**Recommendation:** Counties should be included in Utility NARS notifications to insure that timely dissemination of important information takes place. In addition, significant changes in technical data that impacts the need to take actions in a more urgent and timely manner must be communicated to State and County Operational staff.

**Schedule of Corrective Actions:** IEMA is investigating methods to streamline the process of decision making and NARS form development and transmittal. One method being implemented is transmitting the PAR from the REAC Manager to the SIRC Manager verbally, rather than using a NARS form completed in REAC. This ARCA will be corrected during the 2007 Dresden exercise.

**Issue Number:** 34-06-5.b.1-A-02

**Condition:** News Release 1, released at 1205 hours, from the JIC, contained incorrect and conflicting information. The release listed the appropriate townships based on the sub-areas subject to the advisory, while also inappropriately indicating that the entire 10-mile EPZ was included. The message had not been approved in accordance with the State's approval process.

**Possible Cause:** Standard operating procedures were not followed in regard to insuring that the livestock advisory was properly reviewed prior to issuance.

**Reference:** NUREG-0665E.5, 7; G.3.a; G.4.c

**Effect:** Livestock farmers located in sub-areas 1 through 5 were given conflicting instructions to simultaneously tend to their livestock and evacuate.

**Recommendation:** Insure that information received from the JIC is accurate and the approval process is properly implemented.

**Schedule of Corrective Actions:** IEMA has revised the pre-scripted livestock advisory by putting the references to the 10-mile area in bold type so that during the review process, IEMA staff will ensure that any conflicts in the impacted area are reconciled. This ARCA will be corrected during the 2007 Dresden exercise.

- d. **NOT DEMONSTRATED:** NONE
- e. **PRIOR ISSUE – UNRESOLVED:** NONE
- f. **PRIOR ISSUES – UNRESOLVED:** NONE

### 1.3 Radiological Emergency Assessment Center (REAC)

- a. **MET:** Criteria 1.a.1; 1.c.1; 1.d.1; 1.e.1; 2.a.1; 2.b.1; 2.b.2; 2.c.1 and 5.b.1

- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ISSUES – RESOLVED: NONE**
- f. **PRIOR ISSUES – UNRESOLVED: NONE**

#### **1.4 Unified Area Command (UAC)**

- a. **MET: Criteria 1.a.1; 1.c.1; 1.d.1; 1.e.1; 2.b.2; 3.d.1 and 3.d.2**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ISSUES – RESOLVED: NONE**
- f. **PRIOR ISSUES – UNRESOLVED: NONE**

#### **1.5 Emergency Operations Facility**

- a. **MET: Criteria 1.a.1 and 1.d.1**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ISSUES – RESOLVED: NONE**
- f. **PRIOR ISSUES – UNRESOLVED: NONE**

#### **1.6 Joint Information Center (JIC)**

- a. **MET: Criteria 1.a.1; 1.c.1; 1.d.1; 1.e.1 and 5.b.1**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: NONE**

- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ISSUES – RESOLVED: NONE**
- f. **PRIOR ISSUES – UNRESOLVED: NONE**

#### **1.7 State Liaison - Grundy County**

- a. **MET: Criterion 1.c.1**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ISSUES – RESOLVED: NONE**
- f. **PRIOR ISSUES – UNRESOLVED: NONE**

#### **1.8 Illinois Emergency Management Agency (IEMA) Radiological Advisor - Grundy County**

- a. **MET: Criteria 1.a.1; 1.c.1; 1.d.1; 1.e.1; 2.b.2; 2.c.1; 3.a.1; 3.b.1; 5.a.1 and 5.b.1**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ISSUES – RESOLVED: NONE**
- f. **PRIOR ISSUES – UNRESOLVED: NONE**

#### **1.9 State Liaison - LaSalle County**

- a. **MET: Criterion 1.c.1**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: NONE**
- d. **NOT DEMONSTRATED: NONE**

- e. **PRIOR ISSUES – RESOLVED: NONE**
- f. **PRIOR ISSUES – UNRESOLVED: NONE**

#### **1.10 IEMA Radiological Advisor - LaSalle County**

- a. **MET: Criteria 1.a.1; 1.c.1; 1.d.1; 1.e.1; 2.b.2; 2.c.1; 3.a.1; 3.b.1; 5.a.1 and 5.b.1**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ISSUES – RESOLVED: NONE**
- f. **PRIOR ISSUES – UNRESOLVED: NONE**

#### **1.11 Illinois State Police (ISP) – LaSalle County**

- a. **MET: Criteria 1.a.1; 1.d.1; 1.e.1; 3.d.1 and 3.d.2**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ISSUES – RESOLVED: NONE**
- f. **PRIOR ISSUES – UNRESOLVED: NONE**

#### **1.12 Dosimetry Control Officer Briefing at the ISP District 17 Headquarters (HQ)**

- a. **MET: Criteria 1.e.1; 3.a.1 and 3.b.1**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ISSUES – RESOLVED: NONE**
- f. **PRIOR ISSUES – UNRESOLVED: NONE**



### **1.13 ISP Traffic and Access Control Point at the ISP District 17 HQ**

- a. **MET:** Criteria 1.d.1; 1.e.1; 3.a.1; 3.b.1 and 3.d.1
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION:** NONE
- d. **NOT DEMONSTRATED:** NONE
- e. **PRIOR ISSUES – RESOLVED:** NONE
- f. **PRIOR ISSUES – UNRESOLVED:** NONE

## **2. RISK COUNTIES**

### **2.1 GRUNDY COUNTY**

#### **2.1.1 Initial Warning Point**

- a. **MET:** Criteria 1.a.1 and 1.d.1
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION:** NONE
- d. **NOT DEMONSTRATED:** NONE
- e. **PRIOR ISSUES – RESOLVED:** NONE
- f. **PRIOR ISSUES – UNRESOLVED:** NONE

#### **2.1.2 Emergency Operations Center**

- a. **MET:** Criteria 1.a.1; 1.c.1; 1.d.1; 1.e.1; 2.b.2; 2.c.1; 3.a.1; 3.b.1; 3.c.1; 3.c.2; 3.d.2; 5.a.1 and 5.b1
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION:** NONE
- d. **NOT DEMONSTRATED:** NONE

- e. **PRIOR ISSUES – RESOLVED:** Criterion 5.b.1

**Issue Number:** 06-06-5.b.1-A-01

**Condition:** There were several inaccuracies and some missing information in EBS Messages 2 and 3 generated by Grundy County officials. In addition, neither Messages 2 nor 3 advised the public to stay tuned to the radio station for additional information.

**Corrective Action Demonstrated:** The Grundy County Board Chairman (CBC), in collaboration with the Emergency Management Agency Duty Officer edited and issued two pre-scripted messages, at 1049 hours and 1221 hours, respectively. The second message was the only EBS message with siren activation. The CBC telephoned Radio Station WYKT to broadcast the messages. The public was instructed to refer to information booklets provided by LaSalle County Station and to continue to listen to the radio station for further updates. The pre-scripted messages used during the exercise contained appropriate information, including those elements required by current FEMA REP guidance.

- f. **PRIOR ISSUES – UNRESOLVED:** NONE

### **2.1.3 Emergency Broadcast System (EBS) Station Interview - WYKT**

- a. **MET:** Criteria 1.d.1; 5.a.1 and 5.b.1
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION:** NONE
- d. **NOT DEMONSTRATED:** NONE
- e. **PRIOR ISSUES – RESOLVED:** NONE
- f. **PRIOR ISSUES – UNRESOLVED:** NONE

## **2.2 LASALLE COUNTY**

### **2.2.1 Initial Warning Point**

- a. **MET:** Criteria 1.a.1 and 1.d.1
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION:** NONE
- d. **NOT DEMONSTRATED:** NONE

e. **PRIOR ISSUES – RESOLVED:** NONE

f. **PRIOR ISSUES – UNRESOLVED:** NONE

### 2.2.2 Emergency Operations Center

a. **MET:** Criteria 1.a.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 and 5.b.1

b. **DEFICIENCY:** NONE

c. **AREAS REQUIRING CORRECTIVE ACTION:** Criterion: 1.c.1

**Issue Number:** 34-06-1.c.1-A-03

**Condition:** **Condition:** Excessive time was taken to sound the sirens and notify the public after LaSalle County verified receipt of State NARS Message No. 3. The message was verified with the State at 1148 hours, County EOC responders began discussing the State's PAR at 1201 hours, and a PAD was made at 1210 hours. Sirens were sounded at 1215 hours.

**Possible Cause:** County officials did not recognize the urgency of making a PAD and informing the public in sub-areas affected by the release of radiological materials from the LaSalle County Station that had commenced at 1102 hours.

**Reference:** NUREG-0654, J.9, J.10

**Effect:** Members of the public evacuating the affected sub-areas would potentially be subjected to additional exposure due to the excessive time delay taken before a protective action was communicated to the public to begin evacuation from the plume of radioactive material.

**Recommendation:** Conduct training to improve the timeliness of protective action decision-making, and re-demonstrate this criterion.

**Schedule of Corrective Actions:** IEMA and LaSalle County EMA met via conference call to discuss ways to streamline the PAR decision making and public notification processes in the County EOC. LaSalle County EMA also met with the County Sheriff's Department Chief Deputy to discuss corrections to this ARCA. Training will be conducted with selected key members of the County EOC staff before the end of March 2007. During the training, emphasis will be placed on recognizing the urgency of the situation and expediting notification of the public. This ARCA will be corrected during the 2008 LaSalle exercise.

d. **NOT DEMONSTRATED:** NONE

e. **PRIOR ISSUES – RESOLVED:** Criterion 5.b.1

**Issue Number:** 34-04-5.b.1-A-01

**Condition:** Immediate dissemination of warning messages is not available on a 24-hour basis.

**Corrective Action Demonstrated:** The inability to provide warning messages on a 24-hour basis has been rectified. The LaSalle County EOC now has written procedures that allow for authorized staff to access the “On-Air Coupler” for WCMY 1430 and WRKX 95.3 FM. The system allows placing a phone call to the station, entering the correct access code, and reading the desired message directly on air. LaSalle County can now provide immediate warning dissemination on a 24-hour basis in accordance with NUREG-0654 requirements. The system was demonstrated by interview.

f. **PRIOR ISSUES – UNRESOLVED:** NONE

### 2.2.3 Traffic and Access Control Point

a. **MET:** Criteria 1.d.1; 1.e.1; 3.a.1; 3.b.1 and 3.d.1

b. **DEFICIENCY:** NONE

c. **AREAS REQUIRING CORRECTIVE ACTION:** NONE

d. **NOT DEMONSTRATED:** NONE

e. **PRIOR ISSUES – RESOLVED:** NONE

f. **PRIOR ISSUES – UNRESOLVED:** NONE

### 2.2.4 EBS Station Interview – WCMY/WRKX

a. **MET:** Criteria 1.d.1; 5.a.1 and 5.b.1

b. **DEFICIENCY:** NONE

c. **AREAS REQUIRING CORRECTIVE ACTION:** NONE

d. **NOT DEMONSTRATED:** NONE

e. **PRIOR ISSUES – RESOLVED:** NONE

f. **PRIOR ISSUES – UNRESOLVED:** NONE

**2.2.5 Protective Actions for Schools (EV-2) Interview –  
Allen Township School District**

- a. MET: Criteria 1.d.1; 1.e.1; 3.a.1; 3.b.1 and 3.c.2**
- b. DEFICIENCY: NONE**
- c. AREAS REQUIRING CORRECTIVE ACTION: NONE**
- d. NOT DEMONSTRATED: NONE**
- e. PRIOR ISSUES – RESOLVED: NONE**
- f. PRIOR ISSUES – UNRESOLVED: NONE**

## APPENDIX 1

### ACRONYMS AND ABBREVIATIONS

The following is a list of the acronyms and abbreviations that were used in this report and are used in the REP Program.

ACP	Access Control Point
ALARA	As Low As Reasonable Achievable
ARC	American Red Cross
ARCA	Area Requiring Corrective Action
ARES	Amateur Radio Emergency Services
ATG	Office of the Illinois Attorney General
CAP	Civil Air Patrol
CCC	Congregate Care Center
CD-V	Civil Defense-Category V
CFO	Chicago Field Office
CFR	Code of Federal Regulations
cpm	counts per minute
DCO	Dosimetry Control Officer
DHS	Department of Homeland Security
DRD	Direct-Reading Dosimeter
EAL	Emergency Action Level
EAS	Emergency Alert System
EBS	Emergency Broadcast Station
ECL	Emergency Classification Level
EOC	Emergency Operations Center
EOF	Emergency Operations Facility
EPZ	Emergency Planning Zone
ESDA	Emergency Services and Disaster Agency
EV-2	Protective Actions for School Children
EW	Emergency Worker
FEMA	Federal Emergency Management Agency
FTC	Field Team Center
GE	General Emergency
HP	Health Physics or Health Physicist
HS	High School

ICC	Illinois Commerce Commission
ICF	ICF Consulting
IDA	Illinois Department of Agriculture
IDHS	Illinois Department of Human Services
IDMA	Illinois Department of Military Affairs
IDNR	Illinois Department of Natural Resources
IDOT-A	Illinois Department of Transportation-Division of Aeronautics
IDOT-H	Illinois Department of Transportation-Division of Highways
IDPH	Illinois Department of Public Health
IEMA	Illinois Emergency Management Agency
IEPA	Illinois Environmental Protection Agency
IPRA	Illinois Plan for Radiological Accidents
IREACH	Illinois Radio Emergency Aid Channel
ISP	Illinois State Police
JIC	Joint Information Center
KI	Potassium Iodide
LEIRS	Local Emergency Information Radio Station
LD	Luminescent Dosimeter
M&D	Monitoring and Decontamination
mR	milliRoentgen
mR/hr	milliRoentgen per Hour
MS-1	Medical Services Drill
N/A	Not Applicable
NARS	Nuclear Accident Reporting System
NRC	U.S. Nuclear Regulatory Commission
NUREG-0654	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.
NWS	National Weather Service
ORO	Off-site Response Organization
PAD	Protective Action Decision
PAG	Protective Action Guide
PAO	Public Affairs Official
PAR	Protective Action Recommendation
PIO	Public Information Officer
PNS	Prompt Notification System
R	Roentgen
RACES	Radio Amateur Civil Emergency Services
RAFT	Radiological Assessment Field Team

RASCAL	Radiological Assessment System for Consequence Analysis
RDO	Radiological Defense Officer
RCP	Reactor Coolant Pump
RCS	Reactor Coolant System
REA	Radiation Emergency Area
REAC	Radiological Emergency Assessment Center
rem	Roentgen Equivalent Man
REP	Radiological Emergency Preparedness
RERP	Radiological Emergency Response Plan
R/hr	Roentgen per hour
RO	Radiological Officer
RPCC	Radiological Preparedness Coordinating Committee
SAE	Site Area Emergency
SEOC	State Emergency Operations Center
SIRC	State of Illinois Response Center
SGTS	Standby Gas Treatment System
SOP	Standard Operating Procedure
TACP	Traffic and Access Control Point
T/L	Team Leader
TLD	Thermoluminescent Dosimeter
UAC	Unified Area Command



## APPENDIX 2

### EXERCISE EVALUATORS AND TEAM LEADERS

The following is a list of the personnel who evaluated the LaSalle County Station REP Partial Participation Plume Exposure Pathway exercise on November 15, 2006. Evaluator Team Leaders are indicated by the letters “(TL)” after their names. The organization which each evaluator represents is indicated by the following abbreviations:

DHS      Department of Homeland Security  
ICF      ICF Consulting

<u>TITLE</u>	<u>NAME</u>	<u>ORGANIZATION</u>
Radiological Preparedness Coordinating Committee Chairman	William E. King	DHS
Exercise Director	William E. King	DHS
Site Specialist	Sandra Bailey	DHS
<u>EVALUATION SITE</u>	<u>EVALUATOR</u>	<u>ORGANIZATION</u>
<b>STATE of ILLINOIS</b>		
Initial Warning Point	James McClanahan	ICF
State Emergency Operations Center (SEOC)/ State of Illinois Response Center (SIRC)	Clinton Crackel - TL Carl Bebrich James McClanahan	DHS DHS ICF
Radiological Emergency Assessment Center (REAC)	Lyle Slagle	ICF
Unified Area Command (UAC)	Delwyn Kinsley	DHS
Emergency Operations Facility	Richard Grundstrom	ICF
Joint Information Center (JIC)	George MacDonald	ICF
State Liaison - Grundy County	Robert Rospenda	ICF
Illinois Emergency Management (IEMA) Radiological Advisor - Grundy County	Robert Rospenda	ICF
State Liaison - LaSalle County	Richard Wessman	ICF
IEMA Radiological Advisor - LaSalle County	Richard Wessman	ICF
Illinois State Police (ISP) – LaSalle County	Gary Bolender	ICF

Dosimetry Control Officer Briefing at the ISP District 17 Headquarters (HQ)	Howard Garianee	ICF
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ISP Traffic and Access Control Point at the ISP District 17 HQ	Robert Vork	ICF
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## **GRUNDY COUNTY**

Initial Warning Point	Robert Rospenda	ICF
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Emergency Operations Center	Robert Rospenda - TL	ICF
	Ray Bart	ICF
	William McCance	ICF

Emergency Broadcast System (EBS) Station Interview - WYKT	Clinton Fransen	ICF
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## **LASALLE COUNTY**

Initial Warning Point	Robert Vork	ICF
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Emergency Operations Center	Sandra Bailey - TL	DHS
	Gary Bolender	ICF
	Garianee Howard	ICF
	Patrick Taylor	ICF
	Richard Wessman	ICF

Traffic and Access Control Point	Carolyn Sturghill	DHS
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EBS Station Interview - WCMY/WRKX	Gary Bolender	ICF
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Protective Actions for Schools (EV-2) Interview - Allen Township School District	Clinton Fransen	ICF
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## **APPENDIX 3**

### **EXERCISE CRITERIA AND EXTENT-OF-PLAY AGREEMENT**

This appendix lists the exercise criteria that were scheduled for demonstration in the REP Partial Participation Plume Exposure Pathway exercise conducted on November 15, 2006, for the LaSalle County Station, and the off-site extent-of-play agreements approved by DHS CFO for the State of Illinois on October 26, 2006.

The exercise criteria, contained in FEMA "Radiological Emergency Preparedness Exercise Evaluation Methodology" as published in the Federal Register Notice, Vol. 67, No 80, dated April 25, 2002, represent a functional translation of the planning standards and evaluation criteria of NUREG-0654/FEMA-REP-1, Rev. 1, Criteria for the Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants, November 1980.

Because the exercise criteria are intended for use at all nuclear power plant sites, and because of variations among off-site plans and procedures, an extent-of-play agreement is prepared by the State and approved by DHS to provide evaluators with guidance on expected actual demonstration of the criteria.

## **A. Exercise Criteria and Extent-of-Play**

Listed below are the specific REP criteria scheduled for demonstration during this exercise.

### **STATE OF ILLINOIS - EXTENT OF PLAY AGREEMENT FOR THE LASALLE COUNTY STATION EXERCISE November 15, 2006**

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

#### **EVALUATION AREA 1 - EMERGENCY OPERATIONS MANAGEMENT**

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

The State Emergency Operations Center (SEOC), which houses the IEMA Communications Center (Initial Warning Point), the State of Illinois Response Center (SIRC) and the Radiological Emergency Assessment Center (REAC), will be activated. The IEMA Emergency Response Telecommunicator will implement procedures for notification of IEMA staff as defined in IEMA SOPs. The SIRC will be partially activated with IEMA personnel. REAC will be fully activated.

Rosters will be provided to demonstrate 24-hour staffing of the SIRC and REAC. The evaluator will not be allowed to remove the rosters.

The Unified Area Command (UAC) will be activated at the IDOT District 3 Headquarters in Ottawa with State district and regional personnel. Radiological Assessment Team (RAT) and mobile lab activities will be simulated. IEMA personnel will be prepositioned in the local area and dispatched to the LaSalle County EOC, Grundy County EOC, UAC, EOF, Technical Support Center (TSC) and the JIC. DHS will not evaluate the TSC.

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

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

This criterion will not be demonstrated during this exercise.

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

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

**Criterion 1.d.1:** At least two communication systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations. Communications

capabilities are managed in support of emergency operations.

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

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

The State of Illinois will demonstrate the use of equipment, maps and displays to support emergency operations. DCO logs will be available from the IEMA Radiological Advisors in the county EOCs.

A DCO briefing will be conducted by the Illinois State Police on November 14, 9 a.m., at the ISP District 17 Headquarters. During this briefing, 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 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 the EPZ counties via NARS.

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

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

The coordination to determine protective action recommendations (PARs) based upon available

shelters, evacuation time estimates and other relevant factors will be demonstrated between the SIRC and REAC. The State PAR will be transmitted to the EPZ counties via NARS.

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

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

This criterion will not be demonstrated during this exercise.

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

This criterion will not be demonstrated during this exercise.

### **EVALUATION AREA 3 - PROTECTIVE ACTION IMPLEMENTATION**

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

This will be demonstrated during the ISP DCO briefing will be conducted on November 14, 9 a.m., at the ISP District 17 Headquarters.

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

This will be demonstrated during the ISP DCO briefing will be conducted on November 14, 9 a.m., at the ISP District 17 Headquarters.

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

This criterion does not apply to the State of Illinois.

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

This criterion does not apply to the State of Illinois.

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

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

A traffic and access control demonstration will be evaluated via an interview with an Illinois State Police (ISP) Trooper at the ISP District 17 Headquarters on November 14, 9 a.m.

**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 in the LaSalle County EOC that will drive this demonstration. State personnel will deal with the impediment by discussing the need for equipment, and its estimated time of arrival, etc. Actual contacts with resource providers will be made and logged.

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

This criterion will not be demonstrated during this exercise.

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

This criterion will not be demonstrated during this exercise.

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

This criterion will not be demonstrated during this exercise.

**EVALUATION AREA 4 - FIELD MEASUREMENT AND ANALYSIS**

**Criterion 4.a.1:** The field teams are equipped to perform field measurements of direct radiation exposure (cloud and ground shine) and to sample airborne radioiodine and particulates.

This criterion will not be demonstrated during this exercise.

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

This criterion will not be demonstrated during this exercise.

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

This criterion will not be demonstrated during this exercise.

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

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— This criterion will not be demonstrated during this exercise.

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

— This criterion will not be demonstrated during this exercise.

— **EVALUATION AREA 5 - EMERGENCY NOTIFICATION AND PUBLIC INFORMATION**

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

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

— **Criterion 5.a.2:** [RESERVED]

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

— This criterion does not apply to the State of Illinois.

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

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

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

— **EVALUATION AREA 6 - SUPPORT OPERATION/FACILITIES**

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

— All of the facilities designated as reception and congregate care centers in IPRA-LaSalle have been evaluated since 2002. For this reason, an interview and inspections will not be conducted during the week of the LaSalle exercise.



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

All of the facilities designated as reception and congregate care centers in IPRA-LaSalle have been evaluated since 2002. For this reason, an interview and inspections will not be conducted during the week of the LaSalle exercise.

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

All of the facilities designated as reception and congregate care centers in IPRA-LaSalle have been evaluated since 2002. For this reason, an interview and inspections will not be conducted during the week of the LaSalle exercise.

**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 not be demonstrated during this exercise.

**GRUNDY COUNTY - EXTENT OF PLAY AGREEMENT  
FOR THE  
LASALLE COUNTY STATION EXERCISE  
November 15, 2006**

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 Radiological Preparedness Coordination Committee, include the following: 2.a.1, 2.b.1, 2.b.2, 5.a.1 and 5.b.1.

**EVALUATION AREA 1 - EMERGENCY OPERATIONS MANAGEMENT**

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

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

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

- Telecommunicators shift change takes place at 7 a.m. There is an exchange of information between shifts, usually from 6:50 a.m. to 7:10 a.m. Evaluators are asked not to be disruptive to this process.
- If major events occur or are occurring, evaluators will be asked to leave.
- Evaluators are expected to observe and evaluate without creating additional disruptions.

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

This criterion was demonstrated in the Grundy County EOC during the 2002 Dresden exercise. It will not be demonstrated during this exercise.

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

Decision making will be demonstrated at the State of Illinois Response Center (SIRC) and Grundy County EOC. Coordination of decisions and emergency activities will be demonstrated between Grundy County, the SIRC, UAC and the JIC, and between the County and municipalities within the EPZ. Coordination between Grundy County and LaSalle County will be demonstrated.

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

Grundy County will use NARS, commercial telephone, radio and telefax to communicate with

departments and agencies at other locations.

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

Grundy County will adequately demonstrate the ability to support operations through the use of maps, status boards and other displays as appropriate. DCO logs will be available from the IEMA Radiological Advisor in the County EOC. The availability of dosimetry and KI will be demonstrated at the County EOC.

## **EVALUATION AREA 2 - PROTECTIVE ACTION DECISION MAKING**

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

This criterion does not apply to Grundy County.

**Criterion 2.b.1:** Appropriate protective action recommendations are based on available information on plant conditions, field monitoring data and licensee and ORO dose projections, as well as knowledge of on-site and off-site environmental conditions.

This criterion does not apply to Grundy County.

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

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

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

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

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

This criterion does not apply to Grundy County.

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

This criterion will not be demonstrated during this exercise.

### **EVALUATION AREA 3 - PROTECTIVE ACTION IMPLEMENTATION**

**Criterion 3.a.1:** The OROs issue appropriate dosimetry and procedures and manage radiological exposure to emergency workers in accordance with the plan and procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart.

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

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

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

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

This will be demonstrated by Grundy County through the simulated implementation of the appropriate task assignments. The appropriate officials will coordinate transportation and receiving facilities for special populations. One of each type of special facility will be contacted during the exercise. One of each type of transportation provider (ambulance/bus) will be contacted during the exercise. The public will not be involved in the demonstration.

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

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

Grundy County officials will demonstrate the capability to deal with students who live within the EPZ but attend school outside the EPZ through the simulated implementation of the appropriate task assignment in the County EOC.

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

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

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

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

providers will be made and logged.

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

This criterion does not apply to Grundy County.

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

This criterion does not apply to Grundy County.

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

This criterion will not be demonstrated during this exercise.

#### **EVALUATION AREA 4 - FIELD MEASUREMENT AND ANALYSIS**

This evaluation area does not apply to Grundy County.

#### **EVALUATION AREA 5 - EMERGENCY NOTIFICATION AND PUBLIC INFORMATION**

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

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

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

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

Coordination between Grundy County and LaSalle County will be demonstrated.

**Criterion 5.a.2:** [RESERVED]

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

This criterion does not apply to Grundy County.

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

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

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

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

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

#### **EVALUATION AREA 6 - SUPPORT OPERATION/FACILITIES**

This evaluation area does not apply to Grundy County.

**LASALLE COUNTY - EXTENT OF PLAY AGREEMENT  
FOR THE  
LASALLE COUNTY STATION EXERCISE  
November 15, 2006**

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 Radiological Preparedness Coordination 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 in the LaSalle County EOC.

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

Decision making will be demonstrated at the State of Illinois Response Center (SIRC) and 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 interview.

## **EVALUATION AREA 2 - PROTECTIVE ACTION DECISION MAKING**

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

This criterion does not apply to LaSalle County.

**Criterion 2.b.1:** Appropriate protective action recommendations are based on available information on plant conditions, field monitoring data and licensee and ORO dose projections, as well as knowledge of on-site and off-site environmental conditions.

This criterion does not apply to LaSalle County.

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

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

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

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

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

This criterion does not apply to LaSalle County.

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

The LaSalle County EOC staff will demonstrate this criterion through discussions within the LaSalle County EOC and with REAC and UAC as appropriate. The controller will provide break messages which will contain the predesignated State recommendation regarding relocation, re-entry and return. The LaSalle County staff will discuss the State's recommendation and determine whether to follow that recommendation or another of the County's choosing. The State will participate to the extent necessary to support LaSalle County.



### **EVALUATION AREA 3 - PROTECTIVE ACTION IMPLEMENTATION**

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

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

This criterion will also be demonstrated during the school interview and the traffic and access control demonstration.

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

When notified by the State of Illinois to distribute and administer KI, LaSalle County officials will discuss the issuance of KI to emergency workers and immobile populations, as a voluntary measure, and will notify the municipalities of the State's recommendation. This criterion will also be demonstrated during the traffic and access control demonstration and the school interview.

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

This will be demonstrated by LaSalle County through the simulated implementation of the appropriate procedures. The appropriate officials will coordinate transportation and receiving facilities for special populations. One of each type of special facility will be contacted during the exercise. One of each type of transportation provider (ambulance/bus) will be contacted during the exercise. The public will not be involved in the demonstration.

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

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

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

A school interview will be conducted with the Allen Township School District on November 13, 2 p.m. The District Superintendent, a Teacher, the transportation coordinator (DCO), a bus driver and the maintenance supervisor will be present at the interview.

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

Coordination between LaSalle County agencies designated to provide traffic and access control

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

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

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

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

This criterion does not apply to LaSalle County.

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

This criterion does not apply to LaSalle County.

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

This criterion will be demonstrated through discussions in the LaSalle County EOC. LaSalle County EOC staff will coordinate with REAC, UAC, and the JIC as appropriate. 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 FEMA REP guidance.

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

This capability will be demonstrated through the simulated activation of the LaSalle Station EPZ Prompt Notification System as defined in IPRA-LaSalle. The Prompt Notification System

(outdoor warning sirens) will not be activated during the exercise.

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

Coordination between LaSalle County and Grundy County will be demonstrated.

**Criterion 5.a.2: [RESERVED]**

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

This criterion does not apply to LaSalle County.

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

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

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 4**

### **EXERCISE SCENARIO**

This appendix contains a summary of the simulated sequence of events that was used as the basis for invoking emergency response actions by Offsite Response Organizations in the REP Partial Participation Plume Exposure Pathway exercise conducted on November 15, 2006, for the LaSalle County Station.

The plume exercise scenario was submitted by the State of Illinois and Exelon Nuclear, and approved by DHS/CFO on October 26, 2006.

During the exercise, controllers from the State of Illinois and Exelon Nuclear either gave or telephoned "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 response actions by OROs.

**OFFSITE EXERCISE TIMELINE  
FOR THE  
LASALLE COUNTY STATION EXERCISE  
November 15, 2006**

<u>Approx. Time</u>	<u>Event/Anticipated Response</u>
0800	Initial conditions/weather forecast message to players.
0810	An Alert is declared at LaSalle Station.
0825	Exelon notifies the IEMA Telecommunicator of the ALERT via NARS.  IEMA Telecommunicator verifies the NARS message.  An IEMA Duty Officer contacts the LaSalle Station Shift Engineer.  IEMA Telecommunicator notifies IEMA personnel of the ALERT per SOP.  IEMA may activate the State of Illinois Response Center (SIRC) and Radiological Emergency Assessment Center (REAC), if appropriate.  IEMA may dispatch liaisons to the County EOCs, Unified Area Command (UAC), Radiological Assessment Team (RAT) Staging Area, Joint Information Center (JIC), Technical Support Center (TSC) and Emergency Operations Facility (EOF), if appropriate.  IEMA notifies Governor's Office of the ALERT. (Simulated)  IEMA Telecommunicator notifies appropriate State agencies of the ALERT.  IEMA notifies DHS/FEMA of the ALERT. (Simulated)
0840	IEMA Telecommunicator notifies the counties of the ALERT via NARS.  County telecommunicators complete and verify the NARS message.  County telecommunicators notify County officials and municipalities of the ALERT per SOP.  The counties may activate the EOCs, if appropriate.  Municipal telecommunicators complete and verify the NARS message.  Municipal telecommunicators notify officials of the ALERT per SOP.

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<u>Approx. Time</u>	<u>Event/Anticipated Response</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.
	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, RAT, JIC, TSC and EOF, if not previously dispatched.
	SIRC notifies DHS/FEMA of conditions. (Simulated)
	IEMA notifies State agencies (Simulated): <ul style="list-style-type: none"><li>- Illinois State Police</li><li>- IDOT/Division of Highways</li><li>- IDOT/Division of Aeronautics</li><li>- IDNR</li><li>- Illinois National Guard</li><li>- ICC</li><li>- American Red Cross</li><li>- IDPH</li><li>- IEPA</li><li>- IDOC</li><li>- Office of the State Fire Marshal</li><li>- others as appropriate</li></ul>
	REAC contacts Federal agencies. (Simulated)
	REAC provides an update to the SIRC and County EOC Liaisons.
	REAC provides an update to the JIC.
1000	IEMA notifies the counties of the SITE AREA EMERGENCY via NARS.
	County telecommunicators complete and verify the NARS message.

Approx.  
Time

Event/Anticipated Response

County telecommunicators notify County officials and municipalities of the SITE AREA EMERGENCY per SOP.

County EOCs are activated if not previously activated.

Counties implement public notification procedures, if appropriate. (Simulated)

Municipal telecommunicators complete and verify the NARS message.

Municipal telecommunicators notify officials per SOP.

Dosimetry is issued to emergency personnel, EOC staff and exposure records are completed.

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1100 A GENERAL EMERGENCY is declared at LaSalle Station.

1115 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.

A recommendation is made to the Governor. The Governor recommends that protective actions be implemented.

SIRC staff is advised of the situation.

SIRC advises UAC, the County EOC liaisons and JIC staff of the situation.

SIRC notifies DHS/FEMA of conditions. (Simulated)

REAC provides an update to the SIRC and County EOC liaisons.

REAC provides an update to the JIC.

1130 SIRC notifies the counties of the GENERAL EMERGENCY and the recommended protective actions via NARS.

County telecommunicators complete and verify the NARS message.

County telecommunicators notify County officials and municipalities per SOP.

Approx.  
Time

Event/Anticipated Response

Counties implement public notification procedures and traffic and access control per SOPs, as applicable.

Municipal telecommunicators complete and verify and the NARS message.

Municipal telecommunicators notify EOC staff.

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1330

The GENERAL EMERGENCY continues.

State  
Activity

State facilities and the Grundy County EOC will terminate exercise play.

County  
Activity

A time jump is introduced. Following the introduction of the time jump, LaSalle

County will continue exercise play.

Restricted return of the public is recommended. IEMA notifies LaSalle County of the recommendation via controller message. County EOC staff will discuss the recommendation.

Following completion of county return and re-entry activities, relocation is recommended. IEMA notifies LaSalle County of the recommendation via controller message. County EOC staff will discuss the recommendation.

Following completion of county relocation activities, the LaSalle County Controller will terminate County exercise play.