



FEMA

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U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

To Whom It May Concern:

Enclosed is one copy of the Final Report for the November 19, 2008, Radiological Emergency Preparedness (REP) Partial Participation Plume Exposure Pathway Exercise for the Braidwood Station. The State of Illinois, Grundy County, Kankakee County, Will County, and the utility owner/operator, Exelon Nuclear, participated in this exercise.

No Deficiencies were identified for any jurisdiction during this exercise.

There were no Areas Requiring Corrective Action (ARCAs) identified during this exercise for any of the jurisdictions.

There were no ARCAs from a previous exercise for the State of Illinois or Grundy, Kankakee or Will Counties.

There was one criterion Not Demonstrated for the State of Illinois under Criterion 3.d.2 – Impediments to evacuation are identified and resolved, whereby an exercise Controller submitted an exercise inject ahead of schedule which created a confused response amongst the players resulting in the inject being withdrawn from play.

Based on the results of the November 19, 2008, exercise, the offsite radiological emergency response plans and preparedness for the State of Illinois and affected local jurisdictions, site-specific to the Braidwood 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 Braidwood Station, granted on April 15, 1988, remains in effect.

Copies of this Report were transmitted to the DHS/FEMA National Office, Nuclear Regulatory Commission (NRC) Region III, and the State of Illinois.

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NRR

If you have any questions, please contact William E. King, Chairman, Regional Assistance Committee, DHS/FEMA Region V, at (312) 408-5575.

Sincerely,

A handwritten signature in black ink, appearing to read "Janet M. Odeshoo". The signature is fluid and cursive, with the first name being the most prominent.

Janet M. Odeshoo
Acting Regional Administrator

Enclosure (1)

Braidwood Station

Exercise Report - 2008-11-19
Final Report - Radiological Emergency
Preparedness (REP) Program
2009-02-17



FEMA





FEMA

Exercise Report

Braidwood Station

Exercise Date: 2008-11-19

Report Date: 2009-02-17

U.S. DEPARTMENT OF HOMELAND SECURITY

Federal Emergency Management Agency

REP Program

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Chicago, IL 60605

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1. Executive Summary

On November 19, 2008, a partial participation exercise was conducted in the plume exposure pathway emergency planning zone (EPZ) around the Braidwood Station by the U.S. Department of Homeland Security/Federal Emergency Management Agency (DHS/FEMA). The purpose of the exercise was to assess the level of State and local preparedness in responding to a radiological emergency. This exercise was held in accordance with DHS/FEMA policies and guidance concerning the exercise of State and local radiological emergency response plans (RERPs) and procedures.

The most recent exercise at this site was conducted on August 8 and 9, 2006. The qualifying emergency preparedness exercise was conducted on November 6, 1985.

The DHS/FEMA wishes to acknowledge the efforts of the many individuals who participated in this exercise. In the State of Illinois the risk counties of Grundy, Kankakee, and Will participated along with the State Government. The State of Indiana did not participate in the exercise since it was not a full participation/ingestion exercise.

Protecting the public health and safety is the full-time job of some of the exercise participants and an additional assigned responsibility for others. Still others have willingly sought this responsibility by volunteering to provide vital emergency services to their communities. Cooperation and teamwork on the part of all the participants were evident during this exercise.

This Report contains the evaluation of the biennial exercise and the evaluation of the following out-of-sequence activities: Illinois State Police Dosimetry Control Officers Briefing, Monitoring and Decontamination of Evacuees and Emergency Workers (EWs), Monitoring and Decontamination of EWs' Equipment, Public Registration, Congregate Care Center Interview, Medical Services (MS-1) Transportation and Hospital drills, and Protective Actions for Schools (EV-2) Interviews. 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 for any jurisdiction during this exercise.

There were no Areas Requiring Corrective Action (ARCAs) identified during this exercise for the State of Illinois, Grundy, Kankakee and Will Counties.

There were no ARCAs from previous exercises for the State of Illinois, Grundy, Kankakee, and Will Counties that were required to be demonstrated during this exercise.

There was one criterion (3.d.2, Impediments to evacuation are identified and resolved) not demonstrated by the State of Illinois at the Unified Area Command (UAC) during this exercise. The Controller prematurely submitted an inject involving a major traffic accident involving three cars and an overturned semi-trailer truck (spilling its load of cinder blocks) on one of the major evacuation routes west of Wilmington, IL. The jurisdictions (Illinois State Police and Illinois Department of Transportation) coordinated the dispatch of available resources from the UAC. Because local evacuations had not been implemented prior to the inject being submitted, the Controller retracted the inject prior to the complete resolve of the impediment situation. A second attempt to input the same inject at the proper time resulted in confusion of the responding jurisdictions thinking that the impediment inject had already been satisfied, when in fact it had not. This eventually resulted in the withdrawal of the inject by the Controller without resolution.

2. Introduction

On December 7, 1979, the President directed FEMA to assume the lead responsibility for all offsite nuclear planning and response. FEMA's 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.

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

FEMA'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 Braidwood Station to DHS/FEMA by the State of Illinois and involved local jurisdictions occurred on January 9, 1987. Formal approval of these RERPs was granted by FEMA on April 15, 1988, under 44 CFR 350.

A REP Plume partial exercise was conducted on November 19, 2008, by FEMA to assess the capabilities of State and local offsite emergency preparedness organizations in implementing their RERPs and procedures to protect the public health and safety during a radiological emergency involving the Braidwood 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 are made by the DHS/FEMA – Region V Office with Headquarters concurrence.

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

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

Section 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.

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3. Exercise Overview

Contained in this section are data and basic information relevant to the November 19, 2008, REP Plume exercise to test the offsite emergency response capabilities in the area surrounding the Braidwood Station. This section of the exercise report includes 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.

3.1. EPZ Description

The Braidwood Station is located on a 4,162 acre site in Reed Township in southwest Will County, two miles south of Braidwood, Illinois, and three miles west of the Kankakee River. The station site is relatively flat with an elevation of 589 feet above sea level.

The population distribution in the 10-mile Emergency Planning Zone (EPZ) surrounding the Braidwood Station is relatively low. The year 2000 total population data is 36,493 persons living in the following protective action sub-areas 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16 included within the 10-mile EPZ.

The primary land use around the Braidwood Station is agriculture, with cash grain crops of corn and soybeans. The closest industries are located in the communities of Wilmington, Gardner and Coal City. There are six recreational facilities in the EPZ which can accommodate between 1,000 and 3,000 people each.

Major transportation facilities in the Braidwood Station EPZ are limited to Inter-State 55, which passes one and one-half (1½) miles west of the Station itself, and five railroads. The Railroads are: the Union Pacific Company (SPCSL) which is one (1) mile west of the Station; the Burlington Northern and Santa Fe Railway Company which is four (4) miles northwest of the Station; the Norfolk Southern Railway Company which is nine and one-half (9½) miles south of the Station; the Elgin, Joliet and Eastern Railway Company which is ten (10) miles northwest of the Station; and the CSX Transportation, Inc. which is fourteen (14) miles northwest of the Braidwood Station.

3.2. Exercise Participants

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

State Jurisdictions

- Illinois Department of Human Services
- Illinois Department of Natural Resources
- Illinois Department of Transportation
- Illinois Emergency Management Agency
- Illinois Environmental Protection Agency
- Illinois National Guard
- Illinois State Police

Risk Jurisdictions

- Grundy County Board
- Grundy County Emergency Medical Services-Morris Hospital
- Grundy County Emergency Management Agency
- Grundy County Health Department
- Grundy County Highway Department
- Grundy County Public Information Officer
- Grundy County Regional Office of Education
- Grundy County Sheriff's Department
- Braceville Elementary School
- Gardner/South Wilmington High School
- South Wilmington Consolidated Community School District 74
- Kankakee County Board
- Kankakee County Coroner Office
- Kankakee County Emergency Services and Disaster Agency
- Kankakee County Health Department
- Kankakee County Highway Department
- Kankakee County Public Information Officer
- Kankakee County Sheriff's Department
- Regional Office of Education
- KANCOMM
- Will County Assistant Regional Superintendent of Schools
- Will County Coroner Office
- Will County Executive

Will County Emergency Management Agency
Will County Fire Department and Rescue Service
Will County Forest Preserve
Will County Health Department
Will County Highway Department
Will County Public Information Officer
Will County Sheriff's Department
Bolingbrook Fire Department
New Lenox Police Department

Private Jurisdictions

Amateur Radio Emergency Services
American Red Cross
Chicagoland Speedway
Emergency Broadcast System Station (WCSJ/WJDK)
Emergency Broadcast System Station (WVLI/WIVR)
Emergency Broadcast System Station (WJOL/WSSR/WCCQ/WRXQ)
Exelon Nuclear
Kurtz Ambulance
Silver Cross Hospital

3.3. Exercise Timeline

Table 1, on the following page, presents the times at which key events and activities occurred during the REP Plume exercise conducted on November 19, 2008, for the Braidwood Station.

Table 1. Exercise Timeline

DATE AND SITE: November 19, 2008, Braidwood Station

Emergency Classification Level or Event	Time Utility Declared	Time That Notification Was Received or Action Was Taken					
		State of Illinois	Radiological Emergency Assessment Center	Grundy County	Kankakee County	Will County	Joint Information Center
Unusual Event	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alert	0758	0810	0825	0827	0830	0827	0825
Site Area Emergency	0936	0945	0947	0958	0958	0959	0952
General Emergency	1100	1112	1112	1125	1122	1125	1112
Release of Radioactive Material Started	1056	1112	1056	1125	1122	1125	1112
Release of Radioactive Material Terminated	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Facility Declared Operational		0829	0841	0931	0928	0908	0850
Declaration of Local Emergency		N/A	N/A	0952	N/A	1024	N/A
Declaration of State of Disaster Emergency		1125	N/A	N/A	N/A	N/A	N/A
Exercise Termination		1245	1245	1300	1257	1255	1244
Early Precautionary Action Decision: The State issued a Livestock Advisory: All livestock are to be sheltered and placed on stored feed and water within the 10-mile EPZ.		1023	N/A	N/A	1042	N/A	N/A
Siren Activation:		N/A	N/A	N/A	1045	N/A	N/A
EBS Message:		N/A	N/A	N/A	1046	N/A	N/A
General Information Message: Public advised of Braidwood Alert		N/A	N/A	1025	1003	0959	N/A
Siren Activation:		N/A	N/A	N/A	1005	1005	N/A
EBS Message:		N/A	N/A	1035	1006	1006	N/A
Protective Action Recommendation/Decision: Evacuation of nine Sub-Areas: 1, 2, 3, 6, 7, 10, 11, 13 and 14.		PAR 1120	PAR 1119	PAD 1133	PAD 1132	PAD 1126	N/A
Siren Activation:		N/A	N/A	1145	1140	1140	N/A
EBS Message:		N/A	N/A	1148	1141	1141	N/A
KI Administration Decision: Emergency Workers and Immobile Populations		1143	1136	1144	1157	1147	1141

4. 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 19, 2008, REP Partial Plume Exercises to test the off-site emergency response capabilities of State and local governments in the 10-mile EPZ surrounding the Braidwood 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.

4.1. 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 of Exercise Evaluation (3 pages)

DATE: 2008-11-19 SITE: Braidwood Station, IL A: ARCA, D: Deficiency, M: Met		State - IWP	State EOC/SIRC	REAC	UAC	EOF	JIC	IL State Liason - Grundy	IL State Rad Advisor - Grundy	IL State Liason - Kankakee	IL State Rad Advisor -
Emergency Operations Management											
Mobilization	1a1	M	M	M	M	M	M		M		M
Facilities	1b1										
Direction and Control	1c1		M	M	M	M	M	M	M	M	M
Communications Equipment	1d1	M	M	M	M	M	M				
Equip & Supplies to support operations	1e1		M	M	M		M		M		M
Protective Action Decision Making											
Emergency Worker Exposure Control	2a1		M	M							
Radiological Assessment and PARs	2b1		M	M							
Decisions for the Plume Phase -PADs	2b2		M	M	M				M		M
PADs for protection of special populations	2c1		M	M							
Rad Assessment and Decision making for the Ingestion Exposure Pathway	2d1										
Rad Assessment and Decision making concerning Relocation, Reentry, and Return	2e1										
Protective Action Implementation											
Implementation of emergency worker exposure control	3a1										
Implementation of KI decision	3b1										
Implementation of protective actions for special populations - EOCs	3c1										
Implementation of protective actions for Schools	3c2										
Implementation of traffic and access control	3d1				M						
Impediments to evacuation are identified and resolved	3d2										
Implementation of ingestion pathway decisions - availability/use of info	3e1										
Materials for Ingestion Pathway PADs are available	3e2										
Implementation of relocation, re-entry, and return decisions	3f1										
Field Measurement and Analysis											
Adequate Equipment for Plume Phase Field Measurements	4a1										
Field Teams obtain sufficient information	4a2										
Field Teams Manage Sample Collection Appropriately	4a3										
Post plume phase field measurements and sampling	4b1										
Laboratory operations	4c1										
Emergency Notification and Public Info											
Activation of the prompt alert and notification system	5a1		M						M		M
Activation of the prompt alert and notification system - Fast Breaker	5a2										
Activation of the prompt alert and notification system - Exception areas	5a3										
Emergency information and instructions for the public and the media	5b1		M	M	M		M		M		M
Support Operations/Facilities											
Mon / decon of evacuees and emergency workers, and registration of evacuees	6a1										
Mon / decon of emergency worker equipment	6b1										
Temporary care of evacuees	6c1										
Transportation and treatment of contaminated injured individuals	6d1										

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

DATE: 2008-11-19 SITE: Braidwood Station, IL A: ARCA, D: Deficiency, M: Met		IL State Liaison - Will	IL State Rad Advisor - Will	DCO Briefing - ISP District 5 HQ	TACP - ISP District 5	MS-1 T - Silver Cross Hosp	MS-1 H - Silver Cross Hosp	Grundy - IWP	Grundy - EOC	Grundy - EBS - WCSJ/WJDK	Grundy - EV-2 Braceville Elem
Emergency Operations Management											
Mobilization	1a1		M					M	M		
Facilities	1b1										
Direction and Control	1c1	M	M						M		
Communications Equipment	1d1				M			M	M	M	M
Equip & Supplies to support operations	1e1		M	M	M	M	M		M		M
Protective Action Decision Making											
Emergency Worker Exposure Control	2a1										
Radiological Assessment and PARs	2b1										
Decisions for the Plume Phase -PADs	2b2		M						M		
PADs for protection of special populations	2c1								M		
Rad Assessment and Decision making for the Ingestion Exposure Pathway	2d1										
Rad Assessment and Decision making concerning Relocation, Reentry, and Return	2e1										
Protective Action Implementation											
Implementation of emergency worker exposure control	3a1			M	M		M		M		M
Implementation of KI decision	3b1			M	M				M		M
Implementation of protective actions for special populations - EOCs	3c1								M		
Implementation of protective actions for Schools	3c2								M		M
Implementation of traffic and access control	3d1				M						
Impediments to evacuation are identified and resolved	3d2								M		
Implementation of ingestion pathway decisions - availability/use of info	3e1										
Materials for Ingestion Pathway PADs are available	3e2										
Implementation of relocation, re-entry, and return decisions	3f1										
Field Measurement and Analysis											
Adequate Equipment for Plume Phase Field Measurements	4a1										
Field Teams obtain sufficient information	4a2										
Field Teams Manage Sample Collection Appropriately	4a3										
Post plume phase field measurements and sampling	4b1										
Laboratory operations	4c1										
Emergency Notification and Public Info											
Activation of the prompt alert and notification system	5a1		M						M	M	
Activation of the prompt alert and notification system - Fast Breaker	5a2										
Activation of the prompt alert and notification system - Exception areas	5a3										
Emergency information and instructions for the public and the media	5b1		M						M		
Support Operations/Facilities											
Mon / decon of evacuees and emergency workers, and registration of evacuees	6a1										
Mon / decon of emergency worker equipment	6b1										
Temporary care of evacuees	6c1										
Transportation and treatment of contaminated injured individuals	6d1					M	M				

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

DATE: 2008-11-19 SITE: Braidwood Station, IL A: ARCA, D: Deficiency, M: Met												
			Grundy - EV-2 Gardner-Wilmington HS	Grundy - EV-2 S Wilmington Grd School	Kankakee - IWP	Kankakee - EOC	TACP - Kankakee	Kankakee - EAS - WVLI/WIVR	Will - IWP	Will - EOC	TACP - Will	Will - EAS - WJOL/WSSR/WCCQ/WRXQ
Emergency Operations Management												
Mobilization	1a1				M	M			M	M		
Facilities	1b1											
Direction and Control	1c1				M					M		
Communications Equipment	1d1	M	M	M	M	M	M	M	M	M	M	M
Equip & Supplies to support operations	1e1	M	M		M	M				M	M	
Protective Action-Decision Making												
Emergency Worker Exposure Control	2a1											
Radiological Assessment and PARs	2b1											
Decisions for the Plume Phase -PADs	2b2				M					M		
PADs for protection of special populations	2c1				M					M		
Rad Assessment and Decision making for the Ingestion Exposure Pathway	2d1											
Rad Assessment and Decision making concerning Relocation, Reentry, and Return	2e1											
Protective Action-Implementation												
Implementation of emergency worker exposure control	3a1	M	M		M	M				M	M	
Implementation of KI decision	3b1	M	M		M	M				M	M	
Implementation of protective actions for special populations - EOCs	3c1				M					M		
Implementation of protective actions for Schools	3c2	M	M		M					M		
Implementation of traffic and access control	3d1				M	M				M	M	
Impediments to evacuation are identified and resolved	3d2				M					M		
Implementation of ingestion pathway decisions - availability/use of info	3e1											
Materials for Ingestion Pathway PADs are available	3e2											
Implementation of relocation, re-entry, and return decisions	3f1											
Field Measurement and Analysis												
Adequate Equipment for Plume Phase Field Measurements	4a1											
Field Teams obtain sufficient information	4a2											
Field Teams Manage Sample Collection Appropriately	4a3											
Post plume phase field measurements and sampling	4b1											
Laboratory operations	4c1											
Emergency Notification and Public Info												
Activation of the prompt alert and notification system	5a1				M		M		M			M
Activation of the prompt alert and notification system - Fast Breaker	5a2											
Activation of the prompt alert and notification system - Exception areas	5a3											
Emergency information and instructions for the public and the media	5b1				M					M		
Support Operations/Facilities												
Mon / decon of evacuees and emergency workers, and registration of evacuees	6a1											
Mon / decon of emergency worker equipment	6b1											
Temporary care of evacuees	6c1											

4.2. Status of Jurisdictions Evaluated

4.2.1. Illinois Jurisdictions

4.2.1.1. State Initial Warning Point

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

4.2.1.2. State Emergency Operations Center/State of Illinois Response Center

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

4.2.1.3. Radiological Emergency Assessment Center

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

4.2.1.4. Unified Area Command

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

4.2.1.5. Emergency Operations Facility

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

4.2.1.6. Joint Information Center

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

4.2.1.7. Illinois State Liaison - Grundy County

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

4.2.1.8. Illinois State Radiological Advisor - Grundy County

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

4.2.1.9. Illinois State Liaison - Kankakee County

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

4.2.1.10. Illinois State Radiological Advisor - Kankakee County

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

4.2.1.11. Illinois State Liaison - Will County

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

4.2.1.12. Illinois State Radiological Advisor - Will County

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

4.2.1.13. Dosimetry Control Officer's Briefing - Illinois State Police District 5 Headquarters

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

4.2.1.14. Traffic and Access Control Point at the Illinois State Police District 5 Headquarters

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

4.2.1.15. Medical Services (MS-1) Transportation - Silver Cross Hospital

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

4.2.1.16. Medical Services (MS-1) Hospital - Silver Cross Hospital

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

4.2.2. Risk Jurisdictions

4.2.2.1. Grundy County - Initial Warning Point

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

4.2.2.2. Grundy County - Emergency Operations Center

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

4.2.2.3. Grundy County - Emergency Broadcast System Station - WCSJ/WJDK

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

4.2.2.4. Grundy County - EV-2 Interview - Braceville Elementary School

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

4.2.2.5. Grundy County - EV-2 Interview - Gardner- Wilmington High School

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

4.2.2.6. Grundy County - EV-2 Interview - South Wilmington Grade School

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

4.2.2.7. Kankakee County Initial Warning Point

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

4.2.2.8. Kankakee County - Emergency Operations Center

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

4.2.2.9. Kankakee County Traffic and Access Control Point

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

4.2.2.10. Kankakee County Emergency Alert System - WVLI/WIVR

- a. MET: 1.d.1, 5.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None

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

4.2.2.11. Will County - Initial Warning Point

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

4.2.2.12. Will County - Emergency Operations

Center

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

4.2.2.13. Will County Traffic and Access Control

Point

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

4.2.2.14. Will County - Emergency Alert System Station - WJOL/WSSR/WCCQ/WRXQ

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

APPENDIX 1

ACRONYMS AND ABBREVIATIONS

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
BES	Braceville Elementary School
CAP	Civil Air Patrol
CB	Citizen Band
CCC	Congregate Care Center
CD-V	Civil Defense-Category V
CDE	Committed Dose Equivalent
CMP	Crisis Management Plan
DCO	Dosimetry Control Officer
DRD	Direct Reading Dosimeter
EAL	Emergency Action Level
EAS	Emergency Alert System
EBS	Emergency Broadcast System
ECL	Emergency Classification Level
EMA	Emergency Management Agency
EMD	Emergency Management Director
EMS	Emergency Medical Services
EMT	Emergency Medical Technicians
EOC	Emergency Operations Center
EOF	Emergency Operations Facility
EPA	Environmental Protection Agency
EPZ	Emergency Planning Zone
ESDA	Emergency Service Disaster Agency
EV-2	Protective Actions for School Children
EW	Emergency Worker
FEMA	Federal Emergency Management Agency
FTC	Field Team Center
GC	Grundy County
GE	General Emergency
GEMS	Gaseous Effluent Monitoring System
HD	Health Department
HDL	Health Department Liaison
HP	Health Physics or Health Physicist
HS	High School
IC	Incident Commander
ICC	Illinois Commerce Commission
ICF	ICF Consulting
ICP	Illinois Conservation Police

ICS	Incident Command System
ICSB	Illinois Central School Bus
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
IERT	Illinois Emergency Response Telecommunicator
IPRA	Illinois Plan for Radiological Accidents
IREACH	Illinois Radio Emergency Aid Channel
ISP	Illinois State Police
ISPERN	Illinois State Police Emergency Radio Network
IWP	Initial Warning Point
JIC	Joint Information Center
JJC	Joliet Junior College
KI	Potassium Iodide
LD	Luminescent Dosimeter
LEIRS	Local Emergency Information Radio Station
M&D	Monitoring and Decontamination
mR	milliRoentgen
mR/hr	milliRoentgen per hour
MS-1	Medical Services Drill
NARS	Nuclear Accident Reporting System
NRC	Nuclear Regulatory Commission
NTRC	Northern Technical Response Center
NWS	National Weather Service
ORO	Off-site Response Organization
OSD	Optically Stimulated Dosimeter
PA	Protective Actions
PAD	Protective Action Decision
PAG	Protective Action Guide
PAO	Public Affairs Official
PAR	Protective Action Recommendation
PEO	Principal Executive Officer
PIB	Public Information Brochure
PIO	Public Information Officer
PNS	Prompt Notification System
PRD	Permanent Record Dosimeter
R	Roentgen
R/hr	Roentgen per hour
RACES	Radio Amateur Civil Emergency Services
RAFT	Radiological Assessment Field Team
RASCAL	Radiological Assessment System for Consequence Analysis
RCA	Radiation Controlled Area
RCO	Radiological Control Officer

RCP	Reactor Coolant Pump
RCS	Reactor Coolant System
RDO	Radiological Defense Officer
REA	Radiation Emergency Area
REAC	Radiological Emergency Assessment Center
rem	Roentgen Equivalent Man
REP	Radiological Emergency Preparedness
RERP	Radiological Emergency Response Plan
RO	Radiological Officer
RPCC	Radiological Preparedness Coordinating Committee
SAE	Site Area Emergency
SEOC	State Emergency Operations Center
SGTS	Standby Gas Treatment System
SIRC	State of Illinois Response Center
SOP	Standard Operation Procedures or Standard Operating Procedure
T/L	Team Leader
TACP	Traffic and Access Control Point
TCP	Traffic Control Point
TLD	Thermoluminescent Dosimeter
TSC	Technical Support Center
UAC	Unified Area Command
UHF	Ultra High Frequency
VHF	Very High Frequency
WARN	Wide Area Radio Network

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DATE: 2008-11-19, SITE: Braidwood Station, IL

LOCATION	EVALUATOR	AGENCY
State Initial Warning Point	Mark E. Dalton	ICF
State Emergency Operations Center/State of Illinois Response Center	Mark E. Dalton William McCance	ICF ICF
Radiological Emergency Assessment Center	Marcy Campbell Paul Cormier	ICF ICF
Unified Area Command	Onalee Grady-Erickson Mike Hammond	ICF DHS/FEMA
Emergency Operations Facility	Dennis Wilford	ICF
Joint Information Center	Gary Bolender	ICF
Illinois State Liaison - Grundy County	Robert Rospenda	ICF
Illinois State Radiological Advisor - Grundy County	Robert Rospenda	ICF
Illinois State Liaison - Kankakee County	Robert Duggleby	ICF
Illinois State Radiological Advisor - Kankakee County	Robert Duggleby	ICF
Illinois State Liaison - Will County	Michael Meshenberg	ICF
Illinois State Radiological Advisor - Will County	Michael Meshenberg	ICF
Dosimetry Control Officer's Briefing - Illinois State Police District 5 Headquarters	Onalee Grady-Erickson	ICF
Traffic and Access Control Point at the Illinois State Police District 5 Headquarters	Michael Burriss	ICF
Medical Services (MS-1) Transportation - Silver Cross Hospital	Dennis Wilford	ICF
Medical Services (MS-1) Hospital - Silver Cross Hospital	Richard Grundstrom	ICF
Grundy County - Initial Warning Point	Michael Burriss	ICF
Grundy County - Emergency Operations Center	Robert Rospenda Roy Smith	ICF ICF
Grundy County - Emergency Broadcast System Station - WCSJ/WJDK	David Petta	ICF
Grundy County - EV-2 Interview - Braceville Elementary School	David Petta	ICF
Grundy County - EV-2 Interview - Gardner-Wilmington High School	Don Calsyn	ICF
Grundy County - EV-2 Interview - South Wilmington Grade School	Michael Petullo	ICF
Kankakee County Initial Warning Point	Janet Hlavaty-LaPosa	DHS/FEMA
Kankakee County - Emergency Operations Center	Robert Duggleby Patrick Taylor	ICF ICF
Kankakee County Traffic and Access Control Point	Janet Hlavaty-LaPosa	DHS/FEMA
Kankakee County Emergency Alert System - WVLI/WIVR	Don Calsyn	ICF
Will County - Initial Warning Point	Bruce Swiren	ICF
Will County - Emergency Operations Center	Gregg Dawkins Michael Meshenberg William Sulinckas	ICF ICF DHS/FEMA
Will County Traffic and Access Control Point	Bruce Swiren	ICF
Will County - Emergency Alert System Station - WJOL/WSSR/WCCQ/WRXQ	Michael Petullo	ICF
* Team Leader		

APPENDIX 3

EXERCISE CRITERIA AND EXTENT-OF-PLAY AGREEMENT

This appendix lists the exercise criteria, which were scheduled for demonstration in the Braidwood Station REP Partial Participation Plume Exposure Pathway Exercise on November 19, 2008, and the off-site extent-of-play agreement approved by DHS/FEMA Region V on October 13, 2008.

The exercise criteria, contained in the FEMA "Radiological Emergency Preparedness Exercise Evaluation Methodology; Notice," as published in the Federal Register Notice/Vol 67, dated April 25, 2002, represent a functional translation of the planning standards and evaluation criteria of NUREG-0654/FEMA-REP-1, Rev1, "Criteria for the Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980.

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

A. Exercise Criteria

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

**STATE OF ILLINOIS EXTENT OF PLAY AGREEMENT
FOR THE
BRAIDWOOD STATION EXERCISE
November 19, 2008**

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 Chicagoland Speedway in Joliet with State district and regional personnel. The Radiological Assessment Field Team (RAFT) Command Center and mobile lab will be staffed in Mazon for training purposes. IEMA personnel will be pre-positioned in the local area and dispatched to the Will County EOC, Grundy County EOC, Kankakee County EOC, UAC, Emergency Operations Facility (EOF), Technical Support Center (TSC) and the Joint Information Center (JIC). FEMA will not evaluate the TSC.

The pre-positioned State staff will begin exercise play no earlier than the Alert.

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

This criterion will not be demonstrated during this exercise.

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

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

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

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

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

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

A DCO briefing/traffic and access control (TAC) interview will be conducted by Illinois State Police on November 18, 2 p.m., at the District 5 Headquarters in Lockport. During this event, the availability of dosimetry will be demonstrated. No more than 10% of ISP District 5 dosimetry kits will be inspected during the interview to confirm serial numbers.

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 Will 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 (PAR) 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 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 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 DCO briefing/TAC interview on November 18, 2 p.m., at the ISP District 5 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 DCO briefing/TAC interview on November 18, 2 p.m., at the ISP District 5 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 Braidwood Station EPZ Traffic and Access Control procedures. The staffing of the State posts will be simulated during the exercise. A TAC interview will be conducted on November 18, 2 p.m., at ISP District 5 Headquarters.

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

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

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

This criterion will not be demonstrated during this exercise.

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

This criterion will not be demonstrated during this exercise.

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

This criterion will not be demonstrated during this exercise.

EVALUATION AREA 4 - FIELD MEASUREMENT AND ANALYSIS

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

This criterion will not be demonstrated during this exercise.

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

This criterion will not be demonstrated during this exercise.

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

This criterion will not be demonstrated during this exercise.

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

This criterion will not be demonstrated during this exercise.

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

This criterion will not be demonstrated during this exercise.

EVALUATION AREA 5 - EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

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

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

Criterion 5.a.2: [RESERVED]

Criterion 5.a.3: 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 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-Braidwood have been evaluated since 2003. For this reason, an interview and inspections will not be conducted during the week of the Braidwood 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-Braidwood have been evaluated since 2003. For this reason, an interview and inspections will not be conducted during the week of the Braidwood 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-Braidwood have been evaluated since 2003. For this reason, an interview and inspections will not be conducted during the week of the Braidwood 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 be demonstrated during a drill at Silver Cross Hospital in Joliet on November 18, at 9 a.m.

**GRUNDY COUNTY EXTENT OF PLAY AGREEMENT
FOR THE
BRAIDWOOD NUCLEAR POWER STATION EXERCISE
November 19, 2008**

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

EVALUATION AREA 1 - EMERGENCY OPERATIONS MANAGEMENT

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

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

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, Will County and Kankakee 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. Dosimetry Control Logs will be available

from the IEMA Radiological Advisor in the County EOC. The availability of dosimetry and KI will be demonstrated at the County EOC and during the school interviews.

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 (DCO) network. Exercise messages will be injected which will ensure the opportunity to demonstrate this criterion in the County EOC. This criterion will also be demonstrated during the school interviews.

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. This criterion will also be demonstrated at the school interviews.

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 this capability through the simulated implementation of the appropriate task assignment in the County EOC. The EPZ schools and transportation providers will be contacted during the exercise.

Interviews will be conducted at three EPZ school districts on November 18 as follows:

Gardner/South Wilmington High School at 11 a.m.
South Wilmington CCSD 74 at 1 p.m.
Braceville Elementary School at 1 p.m.

The District Superintendent, Principal, a Teacher, the transportation coordinator (DCO), the maintenance supervisor and a bus driver will be present at each interview.

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 Braidwood Station EPZ Prompt Notification System as defined in IPRA-Braidwood. The Prompt Notification System (outdoor warning sirens) will not be activated during the exercise.

The ability to provide instructions to the public will be demonstrated through the simulated activation of the local radio station (WCSJ/WJDK). The local radio station will be contacted during the first, and possibly the second, alert and notification sequence. An evaluator and controller will be positioned at the radio station during the exercise to monitor 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, Will County and Kankakee 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-Braidwood 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.

**KANKAKEE COUNTY EXTENT OF PLAY AGREEMENT
FOR THE
BRAIDWOOD NUCLEAR POWER STATION EXERCISE
November 19, 2008**

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.

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

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

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

This criterion will not be demonstrated during this exercise.

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

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

Kankakee 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.

Kankakee County will adequately demonstrate the ability to support operations through the use of maps, status boards and other displays as appropriate. Dosimetry Control Logs will be available from the IEMA Radiological Advisor in the County EOC. The availability of dosimetry and KI will be demonstrated at the County EOC, and during the traffic and access control demonstration.

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 Kankakee 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 Kankakee 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 Kankakee County officials in the County EOC. The Kankakee 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 Kankakee County officials in the County EOC. The Kankakee 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 Kankakee 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 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.

Kankakee 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 (DCO) network. Exercise messages will be injected which will ensure the opportunity to demonstrate this criterion in the County EOC.

This criterion will also be demonstrated during the traffic and access control demonstration. The DCO briefing for the Sheriff's deputy demonstrating traffic and access control will be conducted at the Kankakee 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, Kankakee County officials will discuss the issuance of KI to emergency workers and immobile populations, as a voluntary measure. This criterion will also be demonstrated during the traffic and access control demonstration.

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

This will be demonstrated by Kankakee 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 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.

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

A successful interview with Reddick Grade School staff was conducted in 2006. Therefore, an interview will not be conducted this year.

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

Coordination between Kankakee 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 Kankakee 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 Kankakee 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 Kankakee 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 Kankakee 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 Kankakee 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.

Kankakee 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 Braidwood Station EPZ Prompt Notification System as defined in IPRA-Braidwood. 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 (WVLI/WIVR). 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 Kankakee County, Grundy County and Will 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 Kankakee County.

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

Kankakee County will demonstrate this criterion by using pre-scripted messages as indicated in IPRA-Braidwood. 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 Kankakee County through a briefing held at the Kankakee 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 Kankakee County through coordination between the County EOC and the JIC. The Kankakee 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 Kankakee County.

**WILL COUNTY EXTENT OF PLAY AGREEMENT
FOR THE
BRAIDWOOD NUCLEAR POWER STATION EXERCISE
November 19, 2008**

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.

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

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

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

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

Will 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.

Will County will demonstrate the ability to support operations through the use of maps, status boards and other displays as appropriate. Dosimetry Control Logs will be available from the IEMA Radiological Advisor in the Will County EOC. The availability of dosimetry and KI will be demonstrated at the County EOC and during the traffic and access control demonstration.

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 Will 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 Will 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 Will County officials in the County EOC. The Will 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 Will County officials in the County EOC. The Will 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 Will 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.

Will 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 (DCO) network. Exercise messages will be injected which will ensure the opportunity to demonstrate this criterion in the County EOC.

This criterion will also be demonstrated during the traffic and access control demonstration. The DCO briefing for the Sheriff's deputy demonstrating traffic and access control will be conducted at the Will 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, Will 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.

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

This will be demonstrated by Will 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 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.

Will 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.

Both school districts in the Will County portion of the Braidwood EPZ have participated in interviews since 2004. Therefore, an interview will not be conducted this year.

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

Coordination between Will 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 Will 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 Will 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 Will 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 Will 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 Will 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.

Will 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 Braidwood Station EPZ Prompt Notification System as defined in IPRA-Braidwood. 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 (WJOL/WSSR/WCCQ/WRXQ). 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 Will County, Grundy County and Kankakee 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 Will County.

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

Will County will demonstrate this criterion by using pre-scripted messages as indicated in IPRA-Braidwood 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 Will County through a briefing held at the Will 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 Will County through coordination between the County EOC and the JIC. The Will 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 Will County.

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APPENDIX 4

EXERCISE SCENARIO AND TIMELINE

This appendix contains a summary of the simulated sequence of events – Exercise Scenario – which was used as the basis for invoking emergency response actions by Offsite Response Organizations (ORO) in the Braidwood Station REP Partial Participation Plume Exposure Pathway Exercise that was conducted on November 19, 2008.

This exercise scenario was submitted by the State of Illinois and Exelon Nuclear and approved by DHS/FEMA Region V on September 30, 2008.

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

NARRATIVE SUMMARY

NORMAL OPERATIONS

0745 – 0754

The Operating Crew will be briefed at 0715 and is expected to take the shift by 0745. Their turnover will include instructions to continue operations at full power. EO is in field performing surveillance 1BWOSR 3.7.5.4-2 on the 1B AFW Pump (per BwOP-AF07).

ALERT

0755 – 0924

FIRE or EXPLOSION affecting the operability of plant safety systems required to establish or maintain safe shutdown – ALERT, HA6 (HA6.1 AND 6.2.b) {OR HA7 due to CO₂ discharge}

At 0755:

- 1B Diesel Driven AFW Pump trips
- Control Room receives Trip Annunciator
- Control Room receives Fire Alarm/Annunciators for the AFW Pump Area – 0PM01J 37-A4, Unit 1 Area Fire Annunciator LIT (Fire Zone 11.4A-1 Alarming)
- EO performing 1B AFW pump surveillance reports that the Diesel Engine has thrown a rod through the engine casing and pump is inoperable
- Auto-actuation of CO₂ (1S-41) in the 1B AF Pump room

Expected Response

The Shift Manager should declare **ALERT, HA6**. This is: 6.1 FIRE or EXPLOSION in any Table H2 area (Auxiliary Building), **AND** 6.2.a Affected safety systems parameter indications show degraded performance, **OR** 6.2.b Plant personnel report **VISIBLE DAMAGE** to permanent structures or safety system equipment within the specified area. *[T=0 for HA6 is when the CR receives the report from the field – need to check on Fire typer and MCB CO₂ annunciation]*

An alternative declaration could be made of HA7, Release of toxic or flammable gases within or restricting access to a VITAL AREA, which jeopardizes operation of systems required to maintain safe operations or establish or maintain safe shutdown. HA7.1 – Report or detection of toxic or asphyxiant gases within a Table H2 area (Auxiliary Building) in concentrations that result in an atmosphere **IMMEDIATELY DANGEROUS TO LIFE AND HEALTH (DLH)** due to the CO₂ actuation to the 1B AF Pump room.

On an auto-actuation of CO₂ (1S-41) in the 1B AF Pump room, the crew will meet entry conditions for a reportable fire per OP-AA-201-003. The actuation of 1S-41 will be accompanied by a number MCR annunciators including Unit 1 Area Fire, (BwAR 0-37-A4), which will require the MCR to dispatch personnel to investigate/verify a fire per BwAP1000-16, Fire/Hazardous Materials Spill And/Or Injury Response. As directed by

the BwAR, the MCR will also refer to BwOP FP-100, *Fire Response Guidelines*. **[Fire Marshal/Ops Support may perform an out of sequence Fire Drill that will run during the EP exercise scenario – refer to CM-3]**

All appropriate notifications (PA, Dialogic, Station Duty manager, NDO, etc.) will be made. The TSC, OSC, EOF and JIC will be staffed and activated.

Command and Control will be transferred in accordance with procedures to the EOF. Non-delegable responsibilities will be addressed during this turnover process.

County Liaisons will be requested and dispatched.

The Field Monitoring Teams may be dispatched (TSC/EOF).

Failure of Power Range Instrument Channel N-41 Low

0840

At approximately 0835, Power Range Instrument Channel N-41 fails low. No automatic actions should occur.

Expected Response

Ops crew will respond per 1BwOA INST-1 Attachment A to bypass/defeat the failed channel, but will not be able to trip OTΔT bistables TB411C and TB411D because these actions would result in an inadvertent reactor trip due to the prior failure of Pressurizer Pressure Channel 1PT-457. LCO 3.0.3 will require shutdown within 7 hours due to 2nd inoperable OTΔT channel.

Ops crew should take actions for channel restoration (Pressurizer Pressure Channel 1PT-457) and make preparations for unit shutdown.

SITE AREA EMERGENCY

0925 – 1054

Fuel Clad and RCS loss or Potential Loss – SITE AREA EMERGENCY, FS1

The 1B Main Feedwater Pump (MFW) will trip and the 1A Motor drive MFW Pp, if started by Ops Crew, will indicate flow and less than 1 minute later the 1A MFW Pp will trip. The Ops Crew should perform a Main Turbine runback, if the crew is successful in stabilizing the unit a spurious Main Turbine Trip due to unknown causes will be initiated (by the simulator operator) that will **result in a reactor trip**.

Expected Actions

The crew takes action per 1BwEP-0, "Reactor Trip or Safety Injection" and will transition to 1BwEP-0.1 and then 1BwFR H.1, "response to Loss of Secondary Heat Sink." The

Ops Crew will attempt to start the 1A Aux Feedwater (AFW) Pump per 1BwEP-0. The 1A AFW Pump will NOT start. When the level in all four SGs < 10% (31% for Adverse Containment) AND total feedwater flow to the SGs ≤ 500 GPM the entry conditions for 1BwFR-H.1 will be met [RED Path procedure]. This should occur at approximately 0930 to 0940. [T=0 for the FS1]

The TSC will declare a **SITE AREA EMERGENCY – FS1** – Fuel Clad and RCS Loss or Potential Loss due to FC1.2 & RC1.2 RED PATH. The TSC will initiate Site Assembly and Accountability (simulated). Preparations should be made for site evacuation of non-essential personnel.

At approximately 0940, Containment Radiation (AR020 [21]) will begin to slowly increase.

Restoration of Feedwater Flow Via the Start Up Feedwater Pump **~0945**

At approximately 0945, actions to establish feedwater flow via the Start Up Feedwater Pump per 1BwFR-H.1 will be successful.

Expected Actions

The SSD EO will be dispatched to start SU FW Pump Lube Oil Pump – At approximately 0940, the Lube Oil Pump starts.

Initial attempt to start SU FW Pump fails due to dual indication of 1FW076. At approximately 0945, EO will adjust limit switches on 1FW076. The SU Feedwater Pump Start/Restart will be successful and will be supplying > 130 gpm to each SG.

After establishing feedwater flow per 1BwFR-H.1, Attachment B the Ops Crew will transition to the procedure BwEP ES 0.1, "Reactor Trip Recovery."

RCS LOCA to Containment **1040**

RCS pressure and Pressurizer Level indication will indicate that a LOCA (Reactor Coolant to Containment) has occurred. Safety Injection and Phase A isolation should occur.

Containment Radiation (AR020 [21]) increases rapidly.

Containment parameters worsen (Radiation increases, Pressure increases). As a result of this transient, fuel damage has occurred. Containment Radiation (AR020 [21]) will increase to ~2320 R/hr 1055 (per Table F! Loss of FC limit 1.95 E3 R/hr) resulting in a concurrent Loss of Fuel Clad (FC8). This event does **NOT** result in a change to the EAL Classification.

Expected Response

The Ops Crew will respond per 1BwEP-0 and transition to 1BwEP-1.

GENERAL EMERGENCY **1055 – 1300**

Containment Penetration Failure: Loss of All Three Fission Product Barriers – GENERAL EMERGENCY, FG1 – Maximum Protective Action Recommendations (PARs)

This Containment penetration failure is the loss of the third fission product barrier, and combined with the previous loss of the Fuel Clad and RCS FPBs results in the loss of all three fission product barriers: Loss of Fuel Clad (FC8), Loss of RCS (RC8), and Loss of Containment (CT3.1 or CT3.2). [*T=0 for FG1 is when the penetration failure is revealed by inconsistent containment pressure changes or vent stack monitor increase.*]

Release to environment is in Progress – Failed Containment Penetration into Auxiliary Building has resulted in a monitored release via U1 and U2 Vent Sack Monitors.

Expected Actions

The ERO in all ERFs should recognize that a release is in progress, and that all fission product barriers are lost. Using the U1 and U2 Vent Stack Monitors, a Monitored Release patch exists: <RCS><CONT><AB><STACK><ENV> (DAPAR path E).

The TSC will declare a **GENERAL EMERGENCY – FG1** due to the loss of ALL 3 fission product barriers – Loss of Clad FC8 (Containment Radiation > 1950 R/hr), Loss of RCS RC8 (Containment Radiation >25 R/hr), and Loss of Containment CT3.1 (Rapid unexplained drop in Containment pressure following initial pressure rise) OR CT3.2 (Containment pressure or water level response not consistent with LOCA conditions).

The EOF will identify maximum plant based protective action recommendations (Max PARs – evacuate 0-5 mile radius, 10 miles downwind) for a wind direction from 255 degrees, 4 mph, Stability Class E resulting in PAR for Sub-areas: Will 1, 2, 3, 13; Kankakee 6; and Grundy 7, 10, 11, 14.

The Ops Crew should continue efforts to cool down and depressurize the RCS to minimize the driving force out the break. *If manual action is taken to start the Containment. Spray system – CS Pump will NOT start.*

Concurrent RG1 GENERAL EMERGENCY **~1120**

Loss of All Three Fission Product Barriers (FG1) Dose assessment will show a **Concurrent RG1** when the release peaks @ ~1120.

Expected Actions

The EOF will identify that the Maximum plant based protective action recommendations encompass the Dose Based PARs. No additional recommendation required.

Wind Shift – GENERAL EMERGENCY
1155 – 1245

Change in Protective Action Recommendations (PARs)

At ~1155, based on a shift in the wind direction from 255° to 291° an additional sub-area 9 should be added to the PARs when direction exceeds 274°. [*T=0 for change in PAR*]

Expected Actions

Notification to State and local authorities recommending evacuation to 5 miles and 10 miles downwind for additional sub-area 9 for Kankakee County (NARs form to include 1, 2, 3, 6, 7, 9, 10, 11, 13 and 14.)

EXERCISE TERMINATION
1245

Exercise termination will occur by ~ 1245 when the Lead Scenario Controller and State Controller determine that all exercise objectives have been appropriately completed.

OFFSITE EXERCISE TIMELINE
November 19, 2008

<u>Approx. Time</u>	<u>Event/Anticipated Response</u>
0745	Initial conditions/weather forecast message to players.
0755	An Alert is declared at Braidwood Station.
0810	Exelon notifies the IEMA Telecommunicator of the ALERT via NARS. IEMA Telecommunicator verifies the NARS message. An IEMA Duty Officer contacts the Braidwood Station Shift Engineer. IEMA Telecommunicator notifies IEMA personnel of the ALERT per SOP. IEMA may activate the State of Illinois Response Center (SIRC) and Radiological Emergency Assessment Center (REAC), if appropriate. IEMA may dispatch liaisons to the County EOCs, Unified Area Command (UAC), Radiological Assessment Field Team (RAFT) Staging Area, Joint Information Center (JIC), Technical Support Center (TSC) and Emergency Operations Facility (EOF), if appropriate. IEMA notifies Governor's Office of the ALERT. (Simulated) IEMA Telecommunicator notifies appropriate State agencies of the ALERT. IEMA notifies DHS/FEMA of the ALERT. (Simulated)
0825	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.

Approx.
Time

Event/Anticipated Response

0925

A SITE AREA EMERGENCY is declared at Braidwood Station.

0940

Exelon notifies the IEMA Telecommunicator of the SITE AREA EMERGENCY via NARS.

IEMA Telecommunicator verifies the NARS message.

REAC contacts the Braidwood 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, RAFT, JIC, TSC and EOF, if not previously dispatched.

SIRC notifies DHS/FEMA of conditions. (Simulated)

IEMA notifies State agencies (Simulated):

- Illinois State Police
- IDOT/Division of Highways
- IDOT/Division of Aeronautics
- IDNR
- Illinois National Guard
- ICC
- American Red Cross
- IDPH
- IEPA
- IDOC
- Office of the State Fire Marshal
- others as appropriate

REAC contacts Federal agencies. (Simulated)

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

REAC provides an update to the JIC.

Approx. Time	<u>Event/Anticipated Response</u>
0955	<p>IEMA notifies the counties of the SITE AREA EMERGENCY via NARS.</p> <p>County telecommunicators complete and verify the NARS message.</p> <p>County telecommunicators notify County officials and municipalities of the SITE AREA EMERGENCY per SOP.</p> <p>County EOCs are activated if not previously activated.</p> <p>Counties implement public notification procedures, if appropriate. (Simulated)</p> <p>Municipal telecommunicators complete and verify the NARS message.</p> <p>Municipal telecommunicators notify officials per SOP.</p> <p>Dosimetry is issued to emergency personnel, EOC staff and exposure records are completed.</p>
1055	<p>A GENERAL EMERGENCY is declared at Braidwood Station.</p>
1110	<p>Exelon notifies the IEMA Telecommunicator of the GENERAL EMERGENCY via NARS. Protective actions are recommended.</p> <p>IEMA Telecommunicator verifies the NARS message.</p> <p>The SIRC and REAC evaluate the protective action recommendation.</p> <p>A recommendation is made to the Governor. The Governor recommends that protective actions be implemented.</p> <p>SIRC staff is advised of the situation.</p> <p>SIRC advises UAC, the County EOC liaisons and JIC staff of the situation.</p> <p>SIRC notifies FEMA of conditions. (Simulated)</p> <p>REAC provides an update to the SIRC and County EOC liaisons.</p> <p>REAC provides an update to the JIC.</p>

Approx.
Time

Event/Anticipated Response

- 1125 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.
- 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.
-
- 1155 The GENERAL EMERGENCY continues at Braidwood Station. A wind shift has occurred.
- 1210 Exelon notifies the IEMA Telecommunicator of the wind shift via NARS. Additional protective action are recommended.
- IEMA Telecommunicator verifies the NARS message:
- The SIRC and REAC evaluate the protective action recommendation.
- A recommendation is made to the Governor. The Governor recommends that protective actions be implemented.
- SIRC staff is advised of the situation.
- SIRC advises UAC, the County EOC liaisons and JIC staff of the situation.
- SIRC notifies FEMA of conditions. (Simulated)
- REAC provides an update to the SIRC and County EOC liaisons.
- REAC provides an update to the JIC.
- 1225 SIRC notifies EPZ counties of the wind shift and the recommended protective actions via NARS.

Approx.
Time

Event/Anticipated Response

County telecommunicators complete and verify the NARS message.

County telecommunicators advise county officials and municipalities per SOP.

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

Municipal telecommunicators complete and verify and the NARS message.

1245

Terminate exercise play.