



Federal Emergency Management Agency

Region V

536 South Clark Street, 6th Floor

Chicago, IL 60605-1521

December 20, 2002

Mr. James E. Dyer, Regional Administrator
U. S. Nuclear Regulatory Commission, Region III
801 Warrenville Road
Lisle, Illinois 60532-4351

Dear Mr. Dyer:

Enclosed is a copy of the Final Report for the Radiological Emergency Preparedness (REP) Plume Pathway Exercise conducted on October 9, 2002, for the Braidwood Nuclear Generating Station. The State of Illinois, and Will, Grundy, and Kankakee Counties participated in this exercise. Exelon Nuclear Corporation, the utility owner/operator, also participated in this exercise.

No Deficiencies were identified during this exercise. No Areas Requiring Corrective Action (ARCAs) were identified for the State of Illinois, and Will, Grundy, or Kankakee Counties. Two prior ARCAs issued to the State under Objectives 5 and 14 (Criterion 6.d.1-Transportation and Treatment of Contaminated Individuals) pertaining to Medical Services Drills remain unresolved. A prior ARCA issued to Grundy County under Objective 11 (Criterion 5.a.1- Activation of the prompt Alert and Notification System) during the (2000) LaSalle Exercise, pertaining to Public Instructions and Emergency Information, was resolved. A detailed discussion of these issues can be found in Part IV of the Final Report.

Based on the results of the October 9, 2002, exercise, the offsite radiological emergency response plans and preparedness for the State of Illinois, and Will, Grundy, and Kankakee Counties, site-specific to the Braidwood Nuclear Generating Station, can be implemented. These plans are adequate to provide reasonable assurance that appropriate measures can be taken offsite to protect the health and safety of the public,

Therefore, Title 44 CFR, Part 350, approval of the offsite radiological emergency response plans and preparedness for the State of Illinois, and Will, Grundy, and Kankakee Counties, site-specific to the Braidwood Nuclear Generating Station, granted on April 15, 1988, remains in effect. Copies of this Report were transmitted to the Nuclear Regulatory Commission (NRC) National Office, the FEMA National Office and the State of Illinois.

JAN 02 2003

If you should have any questions, let me know or have a member of your staff contact Woodie Curtis at (312) 408-5528.

Sincerely,

A handwritten signature in black ink, appearing to read "E. Buikema". The signature is fluid and cursive, with a large initial "E" and a long, sweeping tail.

Edward G. Buikema
Regional Director

Enclosure (1)



Final Exercise Report

Braidwood Nuclear Generating Station

Licensee: Exelon Nuclear Corporation

Exercise Date: October 9, 2002

Report Date: December 23, 2002

**FEDERAL EMERGENCY MANAGEMENT AGENCY
REGION V**

**536 South Clark Street, 6th Floor
Chicago, Illinois 60605 - 1521**

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I. EXECUTIVE SUMMARY

On October 9, 2002, an exercise was conducted in the plume exposure pathway emergency planning zone (EPZ) around the Braidwood Nuclear Generating Station by the Federal Emergency Management Agency (FEMA), Region V. 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 FEMA's policies and guidance concerning the exercise of State and local Radiological Emergency Response Plans (RERPs) and procedures.

The previous exercise at this site was conducted on March 1, 2000. The qualifying emergency preparedness exercise was conducted on November 6, 1985.

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

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

This report contains the final evaluation of the biennial exercise and the evaluation of the following out-of-sequence activities:

State of Illinois	Monitoring and Decontamination of Evacuees /Emergency Workers - Evacuee Registration
Will County	Implementation of Protective Actions - Schools - (EV - 2)
Grundy County	Implementation of Protective Actions - Schools - (EV - 2)
Kankakee County	Implementation of Protective Actions - Schools - (EV - 2)

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 or new Areas Requiring Corrective Action (ARCA) identified as a result of this exercise. Two ARCAs (Objectives 5 and 14) assessed against the State of Illinois, relating to the Medical Services MS-1 Drill demonstration at the Clinton Power Station (1998) Exercise remain unresolved. An ARCA (Objective 11, Public instructions and Emergency Information) issued to Grundy County at the (2000) LaSalle Exercise was resolved.

II. 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 offsite emergency planning and in the review and evaluation of RERPs and procedures developed by State and local governments;
- Determining whether such plans and procedures can be implemented on the basis of the 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 Commerce,
 - U.S. Nuclear Regulatory Commission,
 - U.S. Environmental Protection Agency,
 - U.S. Department of Energy,
 - U.S. Department of Health and Human Services,
 - U.S. Department of Transportation,
 - U.S. Department of Agriculture,
 - U.S. Department of the Interior, and
 - U.S. Food and Drug Administration.

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

Formal submission of the RERPs for the Braidwood Nuclear Generating Station to FEMA Region V 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 exercise was conducted on October 9, 2002, by FEMA Region V, 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 Nuclear Generating 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 evaluator team, with final determinations made by the FEMA Region V RAC Chairperson and approved by the Regional Director.

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

- NUREG-0654/FEMA-REP-1, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980;
- FEMA-REP-14, "Radiological Emergency Preparedness Exercise Manual," September 1991; and
- FEMA "Radiological Emergency Preparedness: Exercise Evaluation Methodology," 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) description of all Deficiencies and ARCAs assessed during this exercise, recommended corrective actions, and the State and local governments' schedule of corrective actions for each identified exercise issue; and (2) descriptions of unresolved ARCAs assessed during previous exercises and the status of the OROs' efforts to resolve them.

III. EXERCISE OVERVIEW

Contained in this section are data and basic information relevant to the October 9, 2002, exercise to test the offsite emergency response capabilities in the area surrounding the Braidwood Nuclear Generating Station. This section of the exercise report includes a description of the 10-mile 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.

A. Plume Emergency Planning Zone Description

The Braidwood Nuclear Generating Station is located in the State of Illinois. The Station is located on a 4,162 acres site in Reed Township in Southwest Will County, two miles south of Braidwood, Illinois, and three miles west of the Kankakee River. The Braidwood station site is relatively flat with an elevation of 589 feet above sea level. The landscape has been impacted by coal strip mining operations. The latitude for the site is 41° 14' 46" north, and the longitude is 88° 13' 08" west. Two pressurized water reactors are located at the site; and each generates a maximum output of 1,120MW. Unit 1 started commercial operations in July 1988, and Unit 2 started in October 1988.

The 1990 permanent residential population within two miles of the Braidwood Station is 593; the population within five miles of the Braidwood Station is 12,604; and the population within ten miles is 26,011. The population distribution in the 10-mile EPZ is relatively low: The largest of the eleven communities is Wilmington, which has 4,743 residents. The peak total resident and transient population inside the 10-mile EPZ is 53,368 with seasonal variations.

Primary land use within five miles of the Braidwood Station is primarily agricultural, with cash grain crops of corn and soybeans. The closest industries are located within ten miles in the communities of Wilmington, Gardner and Coal City. There are six recreational facilities located in the 10 mile EPZ which can accommodate between 1,000 and 3,000 individuals each.

Major transportation facilities within the Braidwood Station 10-mile EPZ are limited to interstate 55, which passes one and one-half (1&1/2) miles west of the Station itself, and five railroads. The railroads are; the Union Pacific Railroad (one mile west of the station); the Burlington Northern and Sante Fe Railroad (four miles northwest of the station); the Consolidated Rail Corporation (9 1/2 miles south of the station); and the Elgin, the Joliet and the Eastern Railway Company which is ten miles northwest of the Braidwood Station.

B. Exercise Participants

The following agencies, organizations, and units of government participated in the Braidwood Nuclear Generating Station exercise on October 9, 2002.

STATE OF ILLINOIS

Illinois Emergency Management Agency (IEMA)
Illinois Department of Nuclear Safety (IDNS)

RISK JURISDICTIONS

WILL COUNTY

Will County Board of Commissioners
Will County Emergency Management
Emergency Management Department of Natural Resource
Will County Sheriff's Department
Will County Highway Department
Will County Health Department
Will County Regional Superintendent of Schools
Will County Coroner Office
Will County Forest Preserve
Will County Fire Department and Rescue Service

GRUNDY COUNTY

Grundy County Board of Commissioners
Grundy County Emergency Management
Emergency Management Public Information Officer
Grundy County Sheriff's Department
Grundy County Highway Department
Grundy County Health Department
Grundy County Regional Superintendent of Schools
Morris High School, District #101
White Oak School, District #54
Saratoga Elementary School
South Wilmington High School District

KANKAKEE COUNTY

Kankakee County Board of Commissioners
Kankakee County Emergency Services and Disaster Agency
Kankakee County Sheriff's Department
Kankakee County Regional Office of Education

Kankakee County Highway Department
Kankakee County Coroner Office
Kankakee County Health Department
Regional Superintendent of Schools
Essex Township

PRIVATE/VOLUNTEER ORGANIZATIONS

American Red Cross
Exelon Corporation
Amateur Radio Emergency Services

C. Exercise Timeline

Table 1, on the following page, presents the times at which key events and activities occurred during the Braidwood Nuclear Generating Station exercise on October 9, 2002. Also included are times that notifications were made to the participating jurisdictions/functional entities.

Table 1. Exercise Timeline

Date and Site October 3, 2002 Bradwood Nuclear Generating Station

Emergency Classification Level	Time Utility Declared	Time that Notification Was Received or Action Was Taken						
		Illinois State EOC	REAC	State Forward Command Post	Will County EOC	Grundy County EOC	Kankakee County EOC	JPIC
Unusual Event	0818	0830	0829	NA	NA	NA	NA	NA
Alert	0828	0833	0834	0900	0908	0910	0910	0953
Site Area Emergency	0941	0954	0956	0958	1010	1010	1013	1013
General Emergency	1101	1112	1111	1119	1124	1125	1128	1125
Radiation Release Started	1148	1158	1153	1211	1216	1216	1219	1215
Radiation Release Terminated	NA	NA	NA	NA	NA	NA	NA	NA
Facility Declared Operational		0920	0919	0906	0947	0940	0932	0950
Declaration of State of Emergency		1120	NA	1121	NA	1130	NA	1126
Exercise Terminated		1307	1308	1300	1307	1310	1310	1305
1 st Early Precautionary Action Decision: Livestock Advisory: Place Livestock on Stored Feed and Water within the 10-Mile EPZ		0954	0956	0958	1006	1010	1013	1013
1 st Siren Activation (Kankakee & Will Counties)		NA	NA	NA	1030	NA	1025	NA
1 st EBS/EAS Message (Kankakee & Will Counties)		NA	NA	NA	1031	NA	1026	NA
2 nd Early Precautionary Action Decision: Kankakee County: Shelter-in-Place Reddick School		NA	NA	NA	NA	NA	1120	NA
1 st Protective Action Decision: Evacuate 0-2 Miles, 5 Miles Downwind, Sub-Areas 1, 6, 10, 14		1124	1118	1119	1127	1125	1138	1125
2 nd Siren Activation (Kankakee & Will Counties)		NA	NA	NA	1130	NA	1140	NA
2 nd EBS/EAS Message (Kankakee & Will Counties)		NA	NA	NA	1131	NA	1142	NA
1 st Siren Activation (Grundy County)		NA	NA	NA	NA	1135	NA	NA
1 st EBS/EAS Message (Grundy County)		NA	NA	NA	NA	1136	NA	NA
2 nd Protective Action Decision: Evacuate 0-5 Miles; 10 Miles Downwind, Sub-Areas 1, 2, 3, 6, 7, 9, 10, 11, 14		1216	1209	1216	1222	1220	1220	1216
3 rd Siren Activation (Kankakee & Will Counties)		NA	NA	NA	1225	NA	1225	NA
3 rd EBS/EAS Messages (Kankakee & Will Counties)		NA	NA	NA	1226	NA	1226	NA
2 nd Siren Activation (Grundy County)		NA	NA	NA	NA	1236	NA	NA
2 nd EBS/EAS Messages (Grundy County)		NA	NA	NA	NA	1237	NA	NA
KI Administration Decision: Emergency Workers and Institutionalized Immobile Populations		1149	1136	1141	1139	1150	1155	1204

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IV. EXERCISE EVALUATION AND RESULTS

Contained in this section are the results and findings of the evaluation of all jurisdictions and functional entities which participated in the October 9, 2002, exercise to test the offsite emergency response capabilities of State and local governments in the 10-mile EPZ surrounding the Braidwood Nuclear Generating Station.

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

A. Summary Results of Exercise Evaluation - Table 2

The matrix presented in Table 2, on the following page(s), presents the status of all exercise criteria from the Federal Register Notice, Vol. 67, No. 80, dated April 25, 2002, that 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 is indicated by the use of the following letters:

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

TABLE 2. SUMMARY RESULTS OF EXERCISE EVALUATION

DATE AND SITE: October 9, 2002 – Braidwood Nuclear Generating Station

JURISDICTIONS/LOCATION	1. a. 1	1. b. 1	1. c. 1	1. d. 1	1. e. 1	2. a. 1	2. b. 1	2. b. 2	2. c. 1	2. d. 1	2. e. 1	3. a. 1	3. b. 1	3. c. 1	3. c. 2	3. d. 1	3. d. 2	3. e. 1	3. e. 2	3. f. 1	4. a. 1	4. a. 2	4. a. 3	4. b. 1	4. c. 1	5. a. 1	5. a. 2	5. a. 3	5. b. 1	6. a. 1	6. b. 1	6. c. 1	6. d. 1				
STATE OF ILLINOIS																																					
Initial Warning Point	M			M																																	
Emergency Operations Center	M		M	M	M	M	M	M	M																		M			M							
Radiological Emergency Assessment Center (REAC)	M		M	M		M	M	M	M																							M	M	M			
State Forward Command Post						M											M															M	M	M			
Traffic and Access Control	M		M									M	M			M																					
Emergency Operations Facility	M		M																																		
Joint Public Information Center	M		M																												M						
Mon./Decon. of Evac. & Reg. of Evacuees – Carl Sandburg H.S.																																M					
Mon./Decon. of EW/Equipment Carl Sandburg H.S.																																	M				
Temporary Care of Evacuees Carl Sandburg H.S.																																		M			
Medical Services Drill – Transportation													U	U																							
WILL COUNTY																																					
Initial Warning Point	M			M																																	
Emergency Operations Center	M		M	M	M			M	M			M	M	M	M	M	M										M			M							
Traffic and Access Control					M							M				M																					
Emergency Broadcast System Station (WLLI/WJOL AM/FM)																											M										
Protection Action - Schools EV2 (Wilmington School Dist. #209)				M	M							M	M		M																						

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LEGEND: M = Met (No Deficiency or ARCA(s) assessed) A = ARCA(s) assessed (Not affecting health and safety of public) Blank = Not scheduled for demonstration
 D = Deficiency assessed U = Unresolved ARCA(s) from prior exercises N = Not demonstrated as scheduled (Reason explained in Section IV.B.)

TABLE 2. SUMMARY RESULTS OF EXERCISE EVALUATION

DATE AND SITE: October 9, 2002 – Braidwood Nuclear Generating Station

JURISDICTIONS/LOCATION	1. a.	1. b.	1. c.	1. d.	1. e.	2. a.	2. b.	2. b. 2.	2. c.	2. d.	2. e.	3. a.	3. b.	3. c.	3. c. 2.	3. d.	3. d. 2.	3. e.	3. e. 2.	3. f.	4. a.	4. a. 2.	4. a. 3.	4. b.	4. c.	5. a.	5. a. 2.	5. a. 3.	5. b.	6. a.	6. b.	6. c.	6. d.		
<u>GRUNDY COUNTY</u>																																			
Initial Warning Point	M			M																															
Emergency Operations Center	M		M	M	M			M	M			M	M	M	M		M										M			M					
Emergency Broadcasting Station (WCSJ, AM)																											M								
Protection Actions - Schools EV2 – Braceville Elem. School				M	M							M	M		M																				
Protection Actions - Schools EV2 (South Wilmington Grade School)				M	M							M	M		M																				
<u>KANKAKEE COUNTY</u>																																			
Initial Warning Point	M			M																															
Emergency Operations Center	M	M	M	M	M			M	M			M	M	M	M	M	M										M			M					
Traffic and Access Control					M							M				M																			
Emergency Broadcasting Station (WKAN, AM)																											M								
Protection Actions - Schools EV-2 (Reddick Elementary)				M	M							M	M		M																				

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

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

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

B. Status of Jurisdictions Evaluated

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

- **Met** - Listing of the demonstrated exercise criteria under which no Deficiencies or ARCAs were assessed during this exercise and under which no ARCAs assessed during prior exercises remain unresolved.
- **Deficiency** - Listing of the demonstrated exercise criteria under which one or more Deficiencies were assessed during this exercise. Included is a description of each Deficiency and recommended corrective actions.
- **Area Requiring Corrective Actions** - Listing of the demonstrated exercise criteria under which one or more ARCAs were assessed during the current exercise or ARCAs assessed during prior exercises remain unresolved. Included is a description of the ARCAs assessed during this exercise and the recommended corrective action to be demonstrated before or during the next biennial exercise.
- **Not Demonstrated** - Listing of the exercise criteria which were not demonstrated as scheduled during this exercise and the reason they were not demonstrated.
- **Prior ARCAs - Resolved** - Descriptions of ARCAs assessed during previous exercises which were resolved in this exercise and the corrective actions demonstrated.
- **Prior ARCAs - Unresolved** - Descriptions of ARCAs assessed during prior exercises which were not resolved in this exercise. Included is the reason the ARCA remains unresolved and recommended corrective actions to be demonstrated before or during the next biennial exercise.

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

- A **Deficiency** is defined in FEMA-REP-14 as "...an observed or identified inadequacy of organizational performance in an exercise that could cause a finding that offsite emergency preparedness is not adequate to provide reasonable assurance that appropriate protective measures can be taken in the event of a radiological emergency to protect the health and safety of the public living in the vicinity of a nuclear power plant."

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

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

The identifying number for Deficiencies and ARCAs includes the following elements, with each element separated by a hyphen (-).

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

1. STATE OF ILLINOIS

1.1 Initial Warning Point

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

1.2 Emergency Operations Center (EOC)

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

1.3 Radiological Emergency Assessment Center (REAC)

- a. **MET:** Criteria 1.a.1; 1.c.1; 1.d.1; 2.a.1; 2.b.1; 2.b.2; 2.c.1; 6.a.1; 6.b.1; 6.c.1
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION:** NONE
- d. **NOT DEMONSTRATED:** NONE
- e. **PRIOR ARCAs - RESOLVED:** NONE
- f. **PRIOR ARCAs - UNRESOLVED:** NONE

1.4 State Forward Command Post (SFCP)

- a. **MET:** Criteria 2.a.1; 3.d.1; 6.a.1; 6.b.1; 6.c.1
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION:** NONE
- d. **NOT DEMONSTRATED:** NONE
- e. **PRIOR ARCAs - RESOLVED:** NONE
- f. **PRIOR ARCAs - UNRESOLVED:** NONE

1.5 Traffic and Access Control

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

1.6 Emergency Operations Facility (EOF)

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

1.7 Joint Public Information Center (JPIC)

- a. **MET:** Criteria 1.a.1; 1.c.1; 5.b.1

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

1.8 Monitoring and Decontamination of Evacuees and Emergency Workers, Registration of Evacuees – Carl Sandburg High School

- a. MET: Criterion 6.a.1
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION: NONE
- d. NOT DEMONSTRATED: NONE
- e. PRIOR ARCAs - RESOLVED: NONE
- f. PRIOR ARCAs - UNRESOLVED: NONE

1.9 Monitoring and Decontamination of Emergency Worker Equipment – Carl Sandburg High School

- a. MET: Criterion 6.b.1
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION: NONE
- d. NOT DEMONSTRATED: NONE
- e. PRIOR ARCAs - RESOLVED: NONE
- f. PRIOR ARCAs - UNRESOLVED: NONE

1.10 Temporary Care of Evacuees – Carl Sandburg High School

- a. MET: Criterion 6.c.1

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

1.11 Medical Services Drill - MS-1 Transportation

- a. MET: NONE
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION: NONE
- d. NOT DEMONSTRATED: NONE
- e. PRIOR ARCAs - RESOLVED: NONE
- f. PRIOR ARCAs - UNRESOLVED: 5 and 14 (under Criterion 6.d.1)

Issue No.: 13-98-05-A-01

Description: It was determined, through interviews and observation, that the John Warner Hospital ambulance crew has not been trained on the use of dosimetry. They were not knowledgeable of their administrative dose limits or of the radiation exposure reading/recording procedures (NUREG-0654: H.10 and K.3.a).

Recommendation: The John Warner Hospital ambulance crews should receive training in the use of dosimetry and administrative exposure levels, and recording procedures. Additionally, the John Warner/Ambulance Emergency Plan should be revised to reflect these emergency worker protection procedures.

Scheduled of Corrective Actions: Per the IEMA response to this issue, dated May 5, 1999, beginning in 1999. The State of Illinois' proposal under a Pilot Program presented to FEMA is that the State will continue to conduct medical drills to test the State's emergency medical system at the frequency required by FEMA guidance.

FEMA's Response: Medical Services Drills are being conducted under a Pilot Program presented by the State on May 5, 1999, and to date have not met the FEMA Guidance Memorandum (GM) MS-1 requirements. The Pilot Program

remains under evaluation and we are working with IEMA and IDNS staff to further demonstrate State and offsite medical capability.

Issue No.: 13-98-14-A-02

Description: By interview with the John Warner Hospital's ambulance personnel, it was determined that neither KI nor appropriate information on the use of KI was issued to the responding ambulance personnel. Training on the use of KI by ambulance personnel has not been conducted, and a discussion with the hospital's ambulance director resulted in agreement that a training program was needed and should be implemented (NUREG-0654: H.10 and K.3.a).

Recommendation: The Clinton Ambulance crew should receive training in the use of KI. Also, the John Warner Hospital/Ambulance Emergency Plan should be revised to be consistent with the requirements of NUREG-0654.

Schedule of Corrective Actions: The corrective actions for this ARCA are dependent on the outcome of FEMA's decision on the State's proposal, as cited in the Schedule of Corrective Actions response for Issue Number 13-98-05-A-01.

FEMA's Response: Medical Services Drills are being conducted under a Pilot Program presented by the State on May 5, 1999, and to date have not met the FEMA Guidance Memorandum (GM) MS-1 requirements. The Pilot Program remains under evaluation and we are working with IEMA and IDNS staff to further demonstrate State and offsite medical capability.

2. RISK JURISDICTIONS

2.1 WILL COUNTY

2.1.1 Initial Warning Point

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

2.1.2 Emergency Operations Center (EOC)

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

2.1.3 Traffic and Access Control

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

2.1.4 Emergency Broadcasting Station (WLLI/WJOL AM/FM)

- a. **MET:** Criterion 5.a.1
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION:** NONE
- d. **NOT DEMONSTRATED:** NONE
- e. **PRIOR ARCAs - RESOLVED:** NONE
- f. **PRIOR ARCAs - UNRESOLVED:** Objective 11

2.1.5 Protective Actions for Schools – EV2 (Wilmington School District #209)

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

3.1 GRUNDY COUNTY

3.1.1 Initial Warning Point

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

3.1.2 Emergency Operations Center (EOC)

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

3.1.3 Emergency Broadcasting Station (WCSJ AM)

- a. **MET:** Criterion 5.a.1
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION:** NONE
- d. **NOT DEMONSTRATED:** NONE
- e. **PRIOR ARCAs - RESOLVED:** Objective 11

Issue No.: 34-00-A-11-03

Description: The EBS radio station (WCSJ/AM) used by Grundy County for disseminating emergency information to the public does not maintain a 24-hour staff capability.

Recommendation: Provisions should be made so the 24-hour capability requirement to disseminate emergency information to the public is met.

Schedule of Corrective Actions: Grundy County EMA is working with WCSJ to provide the ability to broadcast emergency messages on a 24-hour basis. This issue should be resolved in the first quarter of calendar year 2001.

FEMA Comment: Grundy County has established a Letter of Agreement with Will County, who has a 24-hour capability to issue emergency messages to the public on behalf of Grundy County for the Dresden Nuclear Power Station only. The radio station (WCSJ) is also responsible for broadcasting emergency information for Grundy County during an incident at the LaSalle or Braidwood Power Stations, notwithstanding adverse environmental conditions, such as floods and power outages. Grundy County is continuing their effort to work with WCSJ and alternate radio stations to obtain a 24-hour capability.

In addition, this issue had previously addressed WCSJ Radio Station's inability to supply backup power. There is no requirement for backup power capability at radio stations, however, it is the responsibility of the Counties to identify alternate means of providing information to the public. NUREG – 0654, Appendix 3, C.1.d., pg. 3-5 and 3-6, "System Availability and Reliability".

- f. **PRIOR ARCAs - UNRESOLVED:** NONE

3.1.4 Protective Actions for Schools – EV2 (Braceville Elementary School)

- a. **MET:** Criteria 1.d.1; 1.e.1; 3.a.1; 3.b.1; 3.c.2

- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION: NONE
- f. NOT DEMONSTRATED: NONE
- e. PRIOR ARCAs - RESOLVED: NONE
- f. PRIOR ARCAs - UNRESOLVED: NONE

3.1.5 Protective Actions for Schools – EV2 (South Wilmington Grade School)

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

4.1 KANKAKEE COUNTY

4.1.1 Initial Warning Point

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

4.1.2 Emergency Operations Center (EOC)

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

4.1.3 Traffic and Access Control

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

4.1.4 Emergency Broadcasting Station (WKAN AM)

- a. **MET:** Criterion 5.a.1
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION:** NONE
- d. **NOT DEMONSTRATED:** NONE
- e. **PRIOR ARCAs - RESOLVED:** NONE
- f. **PRIOR ARCAs - UNRESOLVED:** None

4.1.5 Protective Actions - Schools EV-2: (Reddick Elementary School)

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

APPENDIX 1

ACRONYMS AND ABBREVIATIONS

The following is a list of the acronyms and abbreviations which were used in this report.

AM	Amplitude Modulation
ARC	American Red Cross
ARCA	Area Requiring Corrective Action
CFR	Code of Federal Regulations
DCO	Dosimetry Control Officer
EAS	Emergency Alert System
EBS	Emergency Broadcast System
ECL	Emergency Classification Level
EMA	Emergency Management Agency
EOC	Emergency Operations Center
EOF	Emergency Operations Facility
EPZ	Emergency Planning Zone
FEMA	Federal Emergency Management Agency
FM	Frequency Modulation
GE	General Emergency
GM	Guidance Memorandum
ICC	Illinois Commerce Commission
ICF	ICF Consulting
IDNS	Illinois Department of Nuclear Safety
IDOT	Illinois Department of Transportation
IDNR	Illinois Department of Natural Resources
IDPH	Illinois Department of Public Health
IEMA	Illinois Emergency Management Agency
IEPA	Illinois Environmental Protection Agency
ISP	Illinois State Police
JPIC	Joint Public Information Center
KI	Potassium Iodide
mR	milliroentgen
mR/h	milliroentgen per hour

MS-1	Medical Services Drill
NA	Not Applicable
NARS	Nuclear Accident Reporting System
NRC	U.S. Nuclear Regulatory Commission
NUREG-0654	NUREG-0654/FEMA-REP-1, Rev. 1, <i>"Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980</i>
ORO	Offsite Response Organization
PAD	Protective Action Decision
PAR	Protective Action Recommendation
PIO	Public Information Officer
RAC	Regional Assistance Committee
RACES	Radio Amateur Civil Emergency Service
REAC	Radiological Emergency Assessment Center
RERP	Radiological Emergency Response Plan
REP	Radiological Emergency Preparedness
SAE	Site Area Emergency
SEOC	State Emergency Operations Center
SFCP	State Forward Command Post
SOP	Standard Operating Procedure
TACP	Traffic and Access Control Point
TLD	Thermoluminescent Dosimeter
TSC	Technical Support Center

APPENDIX 2

EXERCISE EVALUATORS AND TEAM LEADERS

The following is a list of the personnel who evaluated the Braidwood Nuclear Generating Station exercise on October 9, 2002. "TL" indicates evaluator Team Leaders after their organization's names. The organization each evaluator represents is indicated by the following abbreviations:

FEMA Federal Emergency Management Agency
ICF ICF Consulting

<u>EVALUATION SITE</u>	<u>EVALUATOR</u>	<u>ORGANIZATION</u>
RAC Chairperson	Woodie Curtis	FEMA
Exercise Director	Woodie Curtis	FEMA

STATE OF ILLINOIS

Initial Warning Point	Clint Crackel – TL	FEMA
Emergency Operations Center	Clint Crackel Rosemary Samsel	FEMA ICF
Radiological Emergency Assessment Center	Richard Grundstrom	ICF
State Forward Command Post (Response Cell)	Jerry Stroba	ICF
Traffic and Access Control (Response Cell)	Tommy Brown	ICF

WILL COUNTY

Initial Warning Point	Carolyn Sturghill	FEMA
Emergency Operations Center	Carolyn Sturghill – TL Bob Rospenda Charles Richey	FEMA ICF ICF
Emergency Broadcasting Station (WJOL/WLLI, AM/FM)	Bob Fernandez	ICF
Protective Action Schools - (EV- 2) Wilmington School District #209	Bob Fernandez	ICF

GRUNDY COUNTY

Initial Warning Point	Brett Kriger	ICF
Emergency Operations Center	Gary Naskrent – TL Ronald Van	FEMA ICF
Traffic and Access Control	Brett Kriger	ICF
Emergency Broadcasting Station (WCSJ, AM)	William Edmonson	ICF
Protection Action - Schools (EV-2) Braceville Elementary School	William Edmonson	ICF
Protection Action - Schools (EV-2) South Wilmington Grade School	William Edmonson	ICF

KANKAKEE COUNTY

Initial Warning Point	Carl Bebrich – TL	FEMA
Emergency Operations Center	Carl Bebrich Alejandro Fernandez Lynn Mariano John Turley	FEMA ICF ICF ICF
Emergency Broadcasting Station (WKAN, AM)	Charles Zeppenfeld	ICF
Protective Action - Schools (EV-2) Reddick Elementary School	Charles Zeppenfeld	ICF

APPENDIX 3

EXERCISE CRITERIA AND EXTENT-OF-PLAY AGREEMENT

This appendix lists the exercise criteria which were scheduled for demonstration during the Braidwood Nuclear Generating Station exercise on October 9, 2002, and described in the extent-of-play agreement approved by FEMA Region V.

The exercise criteria, contained in FEMA-REP-15, "Radiological Emergency Preparedness Exercise Evaluation Methodology," September 1991, represent a functional translation of the planning standards and evaluation criteria of NUREG-0654/FEMA-REP-1, Rev. 1, "*Criteria for the Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants*," November 1980.

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

A. Exercise Criteria

Listed below are the specific Radiological Emergency Preparedness criteria scheduled for demonstration during this exercise.

EVALUATION AREA 1: EMERGENCY OPERATIONS MANAGEMENT

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

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

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.

CRITERION 1.d.1: At least two communications 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.

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

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.

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.

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).

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

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 plans 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.

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.

CRITERION 3.c.1: Protective action decisions are implemented for special populations other than schools within areas subject to protective actions.

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

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

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

EVALUATION AREA 4: FIELD MEASUREMENT AND ANALYSIS

This Evaluation area was not scheduled for demonstration during this exercise

EVALUATION AREA 5: EMERGENCY NOTIFICATION & PUBLIC INFORMATION

CRITERION 5.a.1: Activities associated with primary alerting and notification of the public are completed in as 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.

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

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.

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.

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 (found in MASS CARE-Preparedness Operations, ARC 3031). 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.

B. Extent-of-Play Agreement

The extent-of-play agreement on the following pages was submitted by the State of Illinois and was approved by FEMA Region V, in preparation for the Braidwood Nuclear Generating Station exercise on October 9, 2002. The extent-of-play agreement includes any significant modification or change in the level of demonstration of each exercise criterion listed in Subsection A of the appendix.

STATE OF ILLINOIS EXTENT-OF-PLAY AGREEMENT

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 (EOC) will be partially activated. The IEMA Emergency Response Telecommunicator will implement procedures for notification of IEMA staff as defined in IEMA SOPs (standard operating procedures). IEMA and IDNS representatives will staff the State EOC. A roster will be provided to demonstrate 24-hour staffing of the State EOC.

The State Forward Command Post (SFCP) at the IEMA building south of Morris will be activated with State district and regional personnel. IEMA personnel will be prepositioned in the local area and dispatched to the county EOCs, SFCP, Emergency Operation Facility (EOF) and the Joint Public Information Center (JPIC).

The IDNS Telecommunicator will implement notification procedures in accordance with IDNS SOPs. Radiological Emergency Assessment Center (REAC) will be fully activated. A roster will be provided to demonstrate 24-hour staffing of REAC. RAFT will be activated in Springfield for training purposes.

IDNS personnel will be prepositioned in the local area for response to the county EOCs, SFCP, EOF, JPIC and Technical Support Center (TSC).

The prepositioned State staff will begin exercise play at the county EOCs 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 coordination to determine protective action recommendations (PARs) based upon available shelters, evacuation time estimates and other relevant factors will be demonstrated between the State EOC and the REAC.

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

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

The ability to make the decision to recommend the use of KI to institutionalized persons will be demonstrated by IDNS in the 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 ORO's plan and/or procedures.

This criterion will not be demonstrated during this exercise.

EVALUATION AREA 3 – PROTECTIVE ACTION IMPLEMENTATION

Criterion 3.a.1: The OROs issue appropriate dosimetry 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 traffic and access control demonstration at the SFCP. The Illinois State Police will bring dosimetry packets to the SFCP from their district 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 traffic and access control demonstration. The Illinois State Police will bring dosimetry packets to the SFCP from their district 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 SFCP and the county EOCs, in accordance with the Braidwood Station EPZ Traffic and Access Control Procedures. The Illinois State Police (ISP) will demonstrate one traffic and access control post during the exercise. The post for the demonstration will be selected by the ISP during the exercise based on exercise play. The demonstration will take place in the parking lot of the SFCP. The staffing of the remaining State posts will be simulated.

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

This will be demonstrated through discussions at the SFCP between the Illinois State Police and Illinois Department of Transportation. A message will be injected by a Controller that will drive this demonstration. State personnel will deal with the impediment by discussing the need for equipment, discussing its estimated time of arrival, etc. Simulated contacts with resource providers will be 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 MEASUREMENTS AND ANALYSIS

This Evaluation Area will not be demonstrated

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 protective action recommendation (PAR) to the counties and monitoring the instructional messages provided to the public by the counties. This monitoring will be accomplished by IEMA representatives in the county EOCs.

Criterion 5.a.2: [RESERVED]

Criterion 5.a.3: Activities associated with 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 JPIC in coordination with the State EOC, REAC, SFCP and the county EOCs. IEMA and IDNS personnel will be present at the JPIC to coordinate with the utility staff. Media briefings will be conducted at the JPIC.

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.

During the exercise, the capability to determine which centers should be activated for monitoring, decontamination and registration will be demonstrated through coordination between the SFCP and REAC.

This objective has been demonstrated at all facilities designated as reception and care centers in the IPRA-Braidwood in the last five years. For this reason, an interview and inspection of one of these facilities will not be conducted during the week of the Braidwood exercise.

It was not possible to conduct an inspection/interview in conjunction with the 2001/2002 Dresden exercise. We will conduct this evaluation during the week of the Braidwood exercise. An interview of State and local officials and inspection of **Carl Sandburg High School will be conducted.** The following organizations will be represented at the interview: Cook County EMA, local police and fire departments, American Red Cross, IEMA and IDNS. Evacuees will not be processed. Monitoring equipment will not be available at the interview/inspection.

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.

During the exercise, the capability to determine which centers should be activated for monitoring, decontamination and registration will be demonstrated through coordination between the SFCP and REAC.

This objective has been demonstrated at all facilities designated as reception and care centers in the Illinois Plan for Radiological Accidents (IPRA)-Braidwood in the last five years. For this reason, an interview and inspection of one of these facilities will not be conducted during the week of the Braidwood exercise.

It was not possible to conduct an inspection/interview in conjunction with the 2001/2002 Dresden exercise. We will conduct this evaluation during the week of the Braidwood exercise. An interview of State and local officials and inspection of **Carl Sandburg High School will be conducted.** The following organizations will be represented at the interview: Cook County Emergency Management Agency (EMA), local police and fire departments, American Red Cross, IEMA and IDNS. Evacuees will not be processed. Monitoring equipment will not be available at the interview/inspection.

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.

During the exercise, the capability to determine which centers should be activated for monitoring, decontamination and registration will be demonstrated through coordination between the SFCP and REAC.

This objective has been demonstrated at all facilities designated as reception and care centers in the IPRA-Braidwood in the last five years. For this reason, an interview and inspection of one of these facilities will not be conducted during the week of the Braidwood exercise.

It was not possible to conduct an inspection/interview in conjunction with the 2001/2002 Dresden exercise. We will conduct this evaluation during the week of the Braidwood exercise. An interview of State and local officials and inspection of **Carl Sandburg**

High School will be conducted. The following organizations will be represented at the interview: Cook County EMA, local police and fire departments, American Red Cross, IEMA and IDNS. Evacuees will not be processed. Monitoring equipment will not be available at the interview/inspection.

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

This criterion will not be demonstrated during this exercise.

WILL COUNTY EXTENT-OF-PLAY AGREEMENT

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, IDNS 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.

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

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

Decision making will be demonstrated at the State EOC and Will County EOC. Coordination of decisions and emergency activities will be demonstrated between Will County, the State EOC, SFCP and the JPIC, 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. The use of dosimetry and KI will be demonstrated at the County EOC, and during the traffic and access control demonstration and the school interview.

EVALUATION AREA 2 - PROTECTIVE ACTION DECISION MAKING

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

This criterion does not apply to 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 ORO's plan and/or procedures.

This criterion will not be demonstrated during this exercise.

EVALUATION AREA 3 - PROTECTIVE ACTION IMPLEMENTATION

Criterion 3.a.1: The OROs issue appropriate dosimetry 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 IDNS and timely dissemination and exchange of information within the County Dosimetry Control Officer network. Exercise messages will be injected which will ensure the opportunity to demonstrate this criterion in the County EOC.

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

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.

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 task assignments. The appropriate officials will coordinate transportation and receiving facilities for special populations. 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.

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.

A school interview will be conducted with the Wilmington School District during the week of the exercise.

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

Coordination between 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 demonstration will take place in the parking lot of the Will County EOC. 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. Simulated contacts with resource providers will be 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. The local radio station (WJOL/WLLI) will be contacted during the first alert and notification sequence. An evaluator will be positioned at the radio station during the exercise to monitor the initial 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 initial sequence.

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

The ability to deal with rumors will be demonstrated by Will County through coordination between the County EOC and the JPIC. 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 JPIC.

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

EVALUATION AREA 6 - SUPPORT OPERATION/FACILITIES

This evaluation area does not apply to Will County.

GRUNDY COUNTY EXTENT OF PLAY AGREEMENT

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, IDNS 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.

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 7:00 a.m. There is an exchange of information between shifts, usually from 6:50 a.m. to 7:10 a.m. Evaluators are asked not to be disruptive to this process.
- If major events occur or are occurring, evaluators will be asked to leave.
- Evaluators are expected to observe and evaluate without creating additional disruptions.

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

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

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

Decision-making will be demonstrated at the State EOC and Grundy County EOC. Coordination of decisions and emergency activities will be demonstrated between Grundy County, the State EOC, SFCP and the JPIC, 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. The use 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 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 IDNS and timely dissemination and exchange of information within the County Dosimetry Control Officer network. Exercise messages will be injected which will ensure the opportunity to demonstrate this criterion in the County EOC. 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.

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 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.

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. School interviews will be conducted at the Braceville and South Wilmington school districts during the week of the exercise.

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.

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. Simulated contacts with resource providers will be 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. The local radio station (WCSJ) will be contacted during the first alert and notification sequence. An evaluator will be positioned at the radio station during the exercise to monitor the initial 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 initial sequence.

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

The ability to deal with rumors will be demonstrated by Grundy County through coordination between the County EOC and the JPIC. 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 JPIC.

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

EVALUATION AREA 6 - SUPPORT OPERATION/FACILITIES

This evaluation area does not apply to Grundy County.

KANKAKEE COUNTY EXTENT-OF-PLAY AGREEMENT

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, IDNS 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.

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

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

This criterion will be demonstrated in the Kankakee County EOC.

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

Decision making will be demonstrated at the State EOC and Kankakee County EOC. Coordination of decisions and emergency activities will be demonstrated between Kankakee County, the State EOC, SFCP and the JPIC. 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. The use of dosimetry and

KI will be demonstrated at the County EOC, and during the traffic and access control demonstration and the school interview.

EVALUATION AREA 2 - PROTECTIVE ACTION DECISION MAKING

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

This criterion does not apply to 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 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.

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

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

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.

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 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.

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 school interview will be conducted with Reddick Elementary School during the week of the exercise.

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

Coordination between 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 demonstration will take place in the parking lot of the Kankakee County EOC. 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. Simulated contacts with resource providers will be 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.

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. The local radio station (WKAN) will be contacted during the first alert and notification sequence. An evaluator will be positioned at the radio station during the exercise to monitor the initial 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 initial sequence.

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

The ability to deal with rumors will be demonstrated by Kankakee County through coordination between the County EOC and the JPIC. 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 JPIC.

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

EVALUATION AREA 6 - SUPPORT OPERATION/FACILITIES

This evaluation area does not apply to Kankakee County.

APPENDIX 4

EXERCISE SCENARIO

This appendix contains a summary of the simulated sequences of events that were used as the basis for invoking emergency response actions by OROs during the Braidwood Nuclear Generating Station exercise on October 9, 2002.

The Plume Pathway exercise scenario was submitted by the States of Illinois and Exelon Nuclear Energy Corporation, and approved by FEMA Region V.

During the exercise, controllers injected messages via telephone containing scenario events and/or relevant data, to those persons or locations that would normally receive notification of such events. These inject messages were the method used for invoking response actions by OROs.

On the following page is the October 9, 2002, Braidwood Nuclear Generating Station exercise timeline for the State of Illinois and the Counties of Will, Grundy, and Kankakee. All time intervals are approximate.

BRAIDWOOD NUCLEAR GENERATING STATION
OCTOBER 9, 2002, EXERCISE
OFF-SITE TIMELINE

<u>Approx. Time</u>	<u>Event/Anticipated Response</u>
0800	Initial conditions/weather forecast message to players

0815	An ALERT is declared at Braidwood Station.
0830	Exelon notifies IEMA and IDNS Telecommunicators of the ALERT via NARS. IEMA Telecommunicator verifies the NARS message. IDNS Telecommunicator activates the IDNS response team. IDNS Telecommunicator contacts the Braidwood Station Shift Engineer. IEMA notifies IEMA personnel of the ALERT pursuant to SOP IEMA may dispatch liaisons to the county EOCs, SFCP, EOF, and JPIC, if appropriate. IEMA notifies Governor's Office of the ALERT. (Simulated). IEMA may activate the State EOC, if appropriate. IEMA Telecommunicator notifies appropriate State agencies of the ALERT. IEMA notifies FEMA of the ALERT (Simulated).
0845	IEMA Telecommunicator notifies the EPZ counties of the ALERT via NARS. County Telecommunicators complete and verify the NARS message. County Telecommunicators notify County officials and municipalities of the ALERT pursuant to SOP, Counties may activate the EOCs, if appropriate.

Approx.
Time

Event/Anticipated Response

Municipal Telecommunicators complete and verify the NARS message.

Municipal Telecommunicators notify officials of the ALERT pursuant to SOP,

0940

A SITE AREA EMERGENCY is declared at Braidwood Station.

0955

Exelon notifies IEMA and IDNS Telecommunicators of the SITE AREA EMERGENCY via NARS.

IEMA Telecommunicator verifies the NARS message.

REAC contacts the Braidwood Station Shift Engineer.

State EOC is activated (if not previously activated).

IEMA notifies Governor's Office and requests that a representative report to the State EOC. (Simulated)

IEMA dispatches liaisons to the county EOCs, SFCP, EOF and JPIC, if not previously dispatched.

IEMA notifies FEMA of conditions (Simulated).

IEMA notifies State agencies (Simulated):

- Illinois State Police (ISP)
- Illinois Department of Transportation (IDOT) Division of Highways
- Illinois Department of Transportation (IDOT) Aeronautics
- Illinois Department of Natural Resources (IDNR)
- Illinois National Guard (ING)
- Illinois Commerce Commission (ICC)
- American Red Cross (ARC)
- Illinois Department of Public Health (IDPH)
- Office of the State Fire Marshall (OSFM)
- Illinois Environmental Protection Agency (IEPA)
- Illinois Department of Correction (IDOC)
- others as appropriate

IDNS contacts Federal and State support agencies (Simulated).

REAC provides an update to the State EOC Liaison and County EOC Liaisons.

Approx.
Time

Event/Anticipated Response

REAC provides an update to the IDNS PIO.

1010

IEMA notifies the counties of the SITE AREA EMERGENCY via NARS.

County Telecommunicators complete and verify the NARS message.

County Telecommunicators notify County officials and municipalities of the SITE AREA EMERGENCY pursuant to SOPs.

County EOCs are activated if not previously activated.

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

Municipal Telecommunicators complete and verify the NARS message.

Municipal Telecommunicators notify officials pursuant to SOPs.

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

1050

A GENERAL EMERGENCY is declared at Braidwood Station.

1105

Exelon notifies IEMA and IDNS Telecommunicators of the GENERAL EMERGENCY via NARS. Protective actions are recommended.

IEMA Telecommunicator verifies the NARS message.

The State EOC and REAC evaluate the protective action recommendation.

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

State EOC staff is advised of the situation.

IEMA advises State Forward Command Post, the County EOC liaisons, EOF liaisons and JPIC staff of the situation.

IEMA notifies FEMA of conditions (Simulated).

IDNS contacts Federal and State support agencies (Simulated).

Approx.
Time

Event/Anticipated Response

REAC provides an update to the State EOC Liaison and the county EOC Liaisons.

REAC provides an update to the IDNS PIO.

1120

IEMA 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 pursuant to SOPs.

County officials decide what protective actions will be recommended and implement public notification procedures and traffic and access control pursuant to SOPs, as applicable.

Municipal Telecommunicators complete and verify and the NARS message.

Municipal Telecommunicators notify EOC staff.

1330

The exercise is terminated onsite and offsite.

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