



# **Final Exercise Report**

## **Dresden Nuclear Generating Station**

Licensee: **Exelon Nuclear Corporation**

Exercise Date: **May 1, 2002**

Report Date: **August 2, 2002**

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**FEDERAL EMERGENCY MANAGEMENT AGENCY**  
**REGION V**  
**536 South Clark Street, 6th Floor**  
**Chicago, Illinois 60605-1521**

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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 May 1, 2002, exercise to test the offsite emergency response capabilities of State and local governments in the 10-mile EPZ surrounding the Dresden 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: May 1, 2002 – Dresden 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
<b>STATE OF ILLINOIS</b>																																	
Initial Notification Point	M			M																													
Emergency Operations Center	M		M	M	M	M	M	M	M																		M						
Radiological Emergency Assessment Center (REAC)	M		M	M	M	M	M	M	M																						M	M	
Medical Services Drill – Transportation												U	U																				U
<b>GRUNDY COUNTY</b>																																	
Initial Notification Point	M			M																													
Emergency Operations Center	M	M	M	M	M			M	M			M	M	M	M												M			M			
Emergency Broadcast System Station (WCSJ)		M		M																							M						
Protective Actions Schools (EV-2 Interview) White Oak School, District #54				M	M										M																		
Protection Actions Schools (EV-2 Interview) Morris High School, District # 101				M	M										M																		
Protection Actions Schools (EV-2 Interview) Saratoga Elementary School, District #60-C				M	M										M																		

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

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

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

# TABLE 2. SUMMARY RESULTS OF EXERCISE EVALUATION

DATE AND SITE: May 1, 2002 – Dresden 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
<b>KENDALL COUNTY</b>																																	
Initial Notification Point	M			M																													
Emergency Operations Center	M	M	M	M	M			M	M			M	M				M									M			M				
Traffic and Access Control					M							M				M																	
Emergency Broadcasting Station (WSPY FM)		M		M									M	M													M						
<b>WILL COUNTY</b>																																	
Initial Notification Point	M			M																													
Emergency Operations Center	M	M	M	M				M	M						M												M			M			
Emergency Broadcasting Station (WJOL, WLLI, WJTW, WBVM, AM/FM)				M	M																						M						
Protection Actions Schools (EV-2 Interview) Elmwood Community Consolidated School, District #203				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."

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## I. EXECUTIVE SUMMARY

On May 1, 2002, an exercise was conducted in the plume exposure pathway emergency planning zone (EPZ) around the Dresden 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 May 26, 1999. The qualifying emergency preparedness exercise was conducted on September 30, 1981.

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

Grundy County      Implementation of Protective Actions Schools – (EV- 2)

Will 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 remains unresolved.



## 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 Dresden Nuclear Generating Station to FEMA Region V by the State of Illinois and involved local jurisdictions occurred on March 31, 1981. Formal approval of these RERPs was granted by FEMA on October 14, 1982, under 44 CFR 350.

A REP exercise was conducted on May 1, 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 Dresden 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 the ARCA assessed during this exercise, recommended corrective action, 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 May 1, 2002, exercise to test the offsite emergency response capabilities in the area surrounding the Dresden 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 Dresden Nuclear Generating Station is located on 953 rolling prairie acres in northeast Grundy County on the southern bank of the Illinois River. The topography of the site and its immediate environs is relatively flat, with elevations varying from 509 to 523 feet above sea level. The only significant topographic deviations in the area around the Dresden Station are the Kankakee Bluffs, 591 to 624 feet high, located just northeast of the site.

Portions of the site owned by Exelon Nuclear Corporation are leased for cattle grazing and field crops. Approximately 150 acres are used for grazing. Field crop cultivation occupies about another 300 acres. Recreational activity is in the form of hunting during legally prescribed seasons, with entry controlled by the agricultural lessee.

The Emergency Planning Zone (EPZ) for the Dresden Station consists of a circle with the Dresden Station as the center point. The EPZ extends ten miles outward in all directions from the Dresden Station for the plume exposure pathway planning zone and fifty miles outward for the ingestion exposure pathway planning zone. In the event of a serious accident at the Dresden Station, the plume exposure EPZ will be the area in which intensive efforts will be made to notify and protect residents and transient populations from exposure to radiation. This EPZ includes the following counties and municipalities: Grundy County (Illinois), and the municipalities of Carbon Hill, Coal City, Diamond, Minooka, and Morris; Will County (Illinois), and the municipalities of Braidwood, Channahon, Elwood, Joliet, Shorewood, and Wilmington; and a small portion of Kendall County (Illinois).

The population distribution in the 10-mile EPZ surrounding the Dresden Station is relatively low. The 1990 census population is approximately 58,022. Within 0-2 miles, there are 1,272 people; within 2-5 miles, 11,948 people and in the 5-10 mile area there are 44,802 people.

Outside of the Station's boundaries there is a substantial amount of industry. Adjacent to the southern boundary of the Station is the Away-From-Reactor Operations Spent Fuel Storage Facility. The 2,550 megawatt electric, oil-fired Collins Electric Generating Station, owned by Commonwealth Edison, is one and

one half (1½) miles west of the Dresden Station. Four miles southeast of the Dresden Station is the former Joliet Arsenal (36,000 acres) which now is comprised of two industrial areas, a national cemetery and 23,000 acres for the Midewin National Tallgrass Prairie and 4,000 acres being retained by the Army.

Within the EPZ of the Dresden Station there are industrial plants, chemical production facilities, petroleum refining industries, warehousing, dry dock facilities and transportation equipment industries

The majority of the remaining area in the Dresden Station EPZ is used for agriculture, predominately cash grain production. South of the Dresden Station is approximately twenty-seven (27) square miles of recreational and residential land. The EPZ also contains four state parks and a conservation area.

These areas are served by various forms of transportation. Interstate 80 passes five miles to the north of the Dresden Station and Interstate 55 passes four miles to the east of the Dresden Station. The Illinois River, Des Plaines River and Kankakee River flow near the Station. Several railroads operate on tracks running through the Dresden Station EPZ. The railroads are: The Burlington Northern and Santa Fe Railway Company and Amtrak which is four (4) miles east of the Station; the Elgin, Joliet and Eastern Railroad which is one and one-half (1½) miles west of the Station; the CSX Transportation Inc, is four (4) miles northwest of the Station; and the Union Pacific Railroad Company which is seven (7) miles east of the Station.

The majority of Joliet's population resides beyond the 10-mile EPZ.

## **B. Exercise Participants**

The following agencies, organizations, and units of government participated in the Dresden Nuclear Generating Station exercise on May 1, 2002.

### **STATE OF ILLINOIS**

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

### **RISK JURISDICTIONS**

#### **GRUNDY COUNTY**

Grundy County Board Chairman  
Grundy County Emergency Management Director  
Emergency Management Public Information Officer  
Emergency Management Resource Manager  
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

#### **KENDALL COUNTY**

Kendall County Board Chairman  
Kendall County Emergency Services and Disaster Agency  
Kendall County Sheriff's Department  
Kendall County Highway Department  
Kendall County Communication Officer  
Kendall County Health and Human Services

#### **WILL COUNTY**

Will County Executive  
Will County Emergency Management Director  
Will County Sheriff's Department  
Elmwood Community Consolidated School

**PRIVATE/VOLUNTEER ORGANIZATIONS**

American Red Cross  
Exelon Nuclear Corporation  
Radio Amateur Civil Emergency Service

### **C. Exercise Timeline**

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

**TABLE 1. EXERCISE TIMELINE**  
**DATE AND SITE:** May 1, 2002, Dresden Nuclear Generating Station

Emergency Classification Level	Time Utility Declared	Time That Notification Was Received or Action Was Taken				
		Illinois State EOC	REAC	Grundy County	Kendall County	Will County
Unusual Event	N/A	N/A	N/A	N/A	N/A	N/A
Alert	0802	0811	0812	0829	0833	0826
Site Area Emergency	0927	0936	0940	0955	1000	0953
General Emergency	1035	1044	1039	1107	1109	1107
Radiation Release Started	1035	1044	1039	1107	1109	1107
Radiation Release Terminated	-	1155	1147	1235	1231	1230
Facility Declared Operational		0845	0829	0950	1010	0900
Declaration of State of Emergency		1010	N/A	1020	1039	1020
Exercise Terminated		1229	1230	1235	1231	1231
State Release Message #1 – Livestock Advisory - Place livestock on stored feed and protected water out to ten miles.		0946	0946	0949	1010	1021
1st Early Precautionary Action Decision: Advisory for the public residing within 10 miles of the Dresden Nuclear Generating Station of the initial situation.		N/A	N/A	N/A	1041	1037
1st Siren Activation		N/A	N/A	N/A	1048	1040
1st EBS/EAS Message		N/A	N/A	N/A	1050	1042
1 <sup>st</sup> Protective Action Decision: Evacuate: Sub-Areas 1, 3, 4, 6, 7, 9, 12, 13		1103	1052	1125	1121	1116
2nd Siren Activation		N/A	N/A	1135	1125	1118
2nd EBS/EAS Message		N/A	N/A	1135	1127	1120
KI Administration Decision		1044	1038	1106	1106	1107



- 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 ARCA 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 Notification 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 State Emergency Operations Center**

- 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
- 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**

- 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; 6.a.1; 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

#### 1.4 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

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 we 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 GRUNDY COUNTY**

#### **2.1.1 Initial Notification 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 County Emergency Operations Center**

- 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; 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 Emergency Broadcasting Station (WCSJ AM/FM)

- a. MET: Criteria 1.b.1; 1.d.1; 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

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 not withstanding 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".

#### **2.1.4 Protective Actions for Schools – EV2 (White Oak Elementary School)**

- a. MET: Criteria 1.d.1; 1.e.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

#### **2.1.5 Protective Actions for Schools – EV2 (Morris High School)**

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

#### **2.1.6 Protective Actions for Schools – EV2 (Saratoga Elementary School)**

- a. MET: Criteria 1.d.1; 1.e.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 KENDALL COUNTY**

#### **3.1.1 Initial Notification 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 County Emergency Operations Center**

- 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.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 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

### **3.1.4 Emergency Broadcasting Station (WSPY AM/FM)**

- a. MET: Criteria 1.b.1; 1.d.1; 3.b.1; 3.c.1; 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 WILL COUNTY**

##### **4.1.1 Initial Notification 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 County Emergency Operations Center**

- a. MET: Criteria 1.a.1; 1.b.1; 1.c.1; 1.d.1; 2.b.2; 2.c.1; 3.c.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 Emergency Broadcasting Station (WJOL/WLLI AM/FM)**

- a. MET: Criteria 1.d.1; 1.e.1; 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

**4.1.4 Protective Actions - Schools EV-2: (Elmwood Community Consolidated School)**

- a. MET: Criteria 1.d.1; 1.e.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.

ACP	Access Control Point
ANI	American Nuclear Insurers
ARC	American Red Cross
ARCA	Area Requiring Corrective Action
CD-V	Civil Defense - Victoreen
CFR	Code of Federal Regulations
CPM	Counts Per Minute
DRD	Direct Reading Dosimeter
EAL	Emergency Action Level
EAS	Emergency Alert System
EBS	Emergency Broadcast System
ECL	Emergency Classification Level
EOC	Emergency Operations Center
EOF	Emergency Operations Facility
EPZ	Emergency Planning Zone
GE	General Emergency
JIC	Joint Information Center
JPIC	Joint Public Information Center
KI	Potassium Iodide
mR	milliroentgen
mR/h	milliroentgen per hour
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>
NWS	National Weather Service
ORO	Offsite Response Organization
PAD	Protective Action Decision

PAG	Protective Action Guide
PAO	Public Affairs Official
PAR	Protective Action Recommendation
PIO	Public Information Officer
R	Roentgen
RAC	Regional Assistance Committee
RACES	Radio Amateur Civil Emergency Service
REA	Radioactive Emergency Area
REM	Roentgen Equivalent Man
REP	Radiological Emergency Preparedness
R/h	Roentgen(s) per hour
RO	Radiological Officer
SAE	Site Area Emergency
SEOC	State Emergency Operations Center
TCP	Traffic Control Point
TL	Team Leader
TLD	Thermoluminescent Dosimeter

## APPENDIX 2

### EXERCISE EVALUATORS AND TEAM LEADERS

The following is a list of the personnel who evaluated the Dresden Nuclear Generating Station exercise on May 1, 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	Woody Curtis	FEMA
Exercise Director	Woodie Curtis	FEMA
STATE OF ILLINOIS		
Initial Notification Point	Carolyn Sturghill – T/L	FEMA
Emergency Operations Center	Carolyn Sturghill	FEMA
	Roy Smith	ICF
Radiological Emergency Assessment Center	Richard Grundstrom	ICF
State Forward Command Post (Response Cell)	Jerry Stroba	ICF
Traffic and Access Control (Response Cell)	Jerry Stroba	ICF
GRUNDY COUNTY		
Initial Warning Point	Clint Crackel	FEMA
Emergency Operations Center	Clint Crackel – T/L	FEMA
	Charles Richey	ICF
	Ronald Van	ICF
Emergency Broadcasting Station (WCSJ)	Bill Lueders	ICF

Protective Action Schools (EV-2) Morris High School	Carolyn Sturghill	FEMA
Protective Action Schools (EV-2) White Oak Elementary	Bill Lueders	ICF
Protective Action Schools (EV-2) Saratoga Elementary	Bill Lueders	ICF

#### KENDALL COUNTY

Initial Warning Point	Jeffrey Lietzow	ICF
Emergency Operations Center	Gary Naskrent – T/L Dave Schweller	FEMA ICF
Traffic and Access Control	Edward Wojnas	ICF
Emergency Broadcasting Station (WSPY)	Jeffrey Lietzow	ICF

#### WILL COUNTY

Initial Warning Point	Cleven Lloyd – T/L	FEMA
Emergency Operations Center	Cleven Lloyd Al Lookabaugh James McClanahan	FEMA ICF ICF
Emergency Broadcasting Station (WLLI, WJOL, WJTW, WBVM)	James McClanahan	ICF
Protective Action Schools (EV-2) Elmwood Community Consolidated School	James McClanahan	ICF

## APPENDIX 3

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

This appendix lists the exercise criteria that were scheduled for demonstration in the Dresden Nuclear Generating Station exercise on May 1, 2002 and the off-site extent-of-play agreement approved by FEMA Region V on April 29, 2002 for the State of Illinois.

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 off-site 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 and Extent-of-Play

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

#### STATE OF ILLINOIS

#### EVALUATION AREA 1 –EMERGENCY OPERATIONS MANAGEMENT

##### SUB-ELEMENT 1.a - Mobilization

**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 Response Telecommunicator will implement procedures for notification of IEMA staff as defined in IEMA SOPs. 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 IDNS office in Mazon will be activated with State district and regional personnel. IEMA personnel will be prepositioned in the local area and dispatched to the county EOCs.

The IDNS Telecommunicator will implement notification procedures in accordance with IDNS SOPs. REAC will be partially staffed. A response cell will simulate RAFT activities. IDNS personnel will be prepositioned in the local area for response to the county EOCs.

The pre-positioned State staff will begin exercise play at the county EOCs no earlier than the Alert. An Exelon Response Cell will transmit NARS messages to State and will support State and local activities.

#### SUB-ELEMENT 1.b - Facilities

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

This criterion will not be demonstrated during this exercise.

#### SUB-ELEMENT 1.c - Direction and Control

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

The ability to direct and control emergency response activities will be demonstrated at the State EOC, the REAC, the SFCP and the JPIC Response Cell. Coordination will be demonstrated between the State EOC, the REAC, the SFCP Response Cell, the JPIC Response Cell and the county EOCs.

#### SUB-ELEMENT 1.d - Communications Equipment

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

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

IDNS (intra/inter-agency) communications capabilities will be demonstrated in accordance with appropriate SOPs (e.g. NARS, telefax, commercial telephone, radio).

#### SUB-ELEMENT 1.e - Equipment and Supplies to Support Operations

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

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

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

#### SUB-ELEMENT 2.a - Emergency Worker Exposure Control

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

The ability to make the decision to recommend the use of KI to emergency workers will be simulated by IDNS in the REAC.

SUB-ELEMENT 2.b – Radiological Assessment and Protective Action Recommendations and Decisions for the Plume Phase of the Emergency

**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 onsite and offsite environmental conditions.**

The REAC will evaluate the licensee information and complete independent dose projections based on that information and simulated field monitoring data. The REAC will make an evaluation of the data and make a protective action recommendation to the State EOC.

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

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

SUB-ELEMENT 2.c – Protective Action Decision Consideration for the Protection of Special Populations

**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. See Criterion 2.a.1.

SUB-ELEMENT 2.d – Radiological Assessment and Decision-Making for the Ingestion Exposure Pathway

**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 will not be demonstrated during this exercise.



SUB-ELEMENT 2.e – Radiological Assessment and Decision-Making Concerning Relocation, Re-entry, and Return

**Criterion 2.e.1: Timely relocation, re-entry, and return decisions are made and coordinated as appropriate, based on assessments of 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**

SUB-ELEMENT 3.a – Implementation of Emergency Worker Exposure Control

**Criterion 3.a.1: The OROs issues appropriate dosimetry and procedures, and manages 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 criterion will not be demonstrated during this exercise.

SUB-ELEMENT 3.b – Implementation of KI Decision

**Criterion 3.b.1: KI and appropriate instructions are made 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 criterion will not be demonstrated during this exercise.

SUB-ELEMENT 3.c – Implementation of Protective Actions for Special Populations

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

This criterion does not apply to the State of Illinois.

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

This criterion does not apply to the State of Illinois.

SUB-ELEMENT 3.d – Implementation of Traffic and Access Control

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

This criterion will not be demonstrated during this exercise.

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

This criterion will not be demonstrated during this exercise.

**SUB-ELEMENT 3.e – Implementation of Ingestion Pathway Decisions**

**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.

**SUB-ELEMENT 3.f – Implementation of Relocation, Re-entry, and Return Decisions**

**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**

**SUB-ELEMENT 4.a – Plume Phase Field Measurement and Analyses**

This Evaluation Area will not be demonstrated during this exercise.

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

**SUB-ELEMENT AREA 5.a – Activation of the Prompt Alert and Notification System**

**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 the IEMA representatives in the county EOCs.

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.

SUB-ELEMENT 5.b – Emergency Information and Instructions for the Public and the Media

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

This criterion will not be demonstrated during this exercise. The JPIC Response Cell will not be activated. A JPIC Response Cell will coordinate public information and rumor control activities with the counties.

#### **EVALUATION AREA 6.– SUPPORT OPERATION/FACILITIES**

SUB-ELEMENT 6.a – Monitoring and Decontamination of Evacuees and Emergency Workers and Registration of Evacuees

**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**

This criterion will not be demonstrated during this exercise.

SUB-ELEMENT 6.b – Monitoring and Decontamination of Emergency Worker Equipment

**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.**

This criterion will not be demonstrated during this exercise.

SUB-ELEMENT 6.c – Temporary Care of Evacuees

**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.

This criterion will not be demonstrated during this exercise.

**SUB-ELEMENT 6.d – Transportation and Treatment of Contaminated Injured Individuals**

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

This criterion will not be demonstrated during this exercise.

## GRUNDY COUNTY

### EVALUATION AREA 1.- EMERGENCY OPERATIONS MANAGEMENT

#### SUB-ELEMENT 1.a - Mobilization

**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-Dresden. Representatives from IEMA, IDNS and the Utility will staff the County EOC but will not be prepositioned 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 a.m. There is an exchange of information between the shifts, usually from 6:50 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.
- Telecommunicators are working under some very trying conditions as construction as new radio equipment was installed and they are working through problems as they occur.
- Evaluators are expected to observe and evaluate without creating additional disruptions.

#### SUB-ELEMENT 1.b - Facilities

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

This criterion will be demonstrated in the Grundy County EOC.

#### SUB-ELEMENT 1.c - Direction and Control

**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 Response Cell, and between the County and the municipalities within the EPZ. Coordination between Grundy, Will and Kendall County will also be demonstrated.

#### SUB-ELEMENT 1.d - Communications Equipment

**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.

SUB-ELEMENT 1.e - Equipment and Supplies to Support Operations

**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 in the county EOC.

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

SUB-ELEMENT 2.a - Emergency Worker Exposure Control

**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 Grundy County.

SUB-ELEMENT 2.b - Radiological Assessment and Protective Action Recommendations and Decisions for the Plume Phase of the Emergency

**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 onsite and offsite 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.

SUB-ELEMENT 2.c - Protective Action Decisions Consideration for the Protection of Special Populations

**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.

SUB-ELEMENT 2.d – Radiological Assessment and Decision-Making for the Ingestion Exposure Pathway

**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.

SUB-ELEMENT 2.e – Radiological Assessment and Decision-Making Concerning Relocation, Re-entry, and Return

**Criterion 2.e.1: Timely relocation, re-entry, and return decisions are made and coordinated as appropriate, based on assessments of radiological conditions and criteria in the ORO's plan and/or procedures. Demonstrate the appropriate use of equipment and procedures for determining field radiation measurements.**

This criterion will not be demonstrated during this exercise.

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

SUB-ELEMENT 3.a – Implementation of Emergency Worker Exposure Control

**Criterion 3.a.1: The OROs issues appropriate dosimetry and procedures, and manages 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 objective 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.

SUB-ELEMENT 3.b – Implementation of KI Decision

**Criterion 3.b.1: KI and appropriate instructions are made 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.

**SUB-ELEMENT 3.c – Implementation of Protective Actions for Special Populations**

**Criterion 3.c.1: Protective action decisions are implemented for special populations other than schools 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. 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. School interviews will be conducted on April 30 at the following times:

Morris High School District – 9:00 a.m.

White Oak Elementary School District – 11:00 a.m.

Saratoga School District – 1:30 p.m.

**SUB-ELEMENT 3.d – Implementation of Traffic and Access Control**

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

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

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

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

**SUB-ELEMENT 3.e – Implementation of Ingestion Pathway Decisions**

**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.

SUB-ELEMENT 3.f – Implementation of Relocation, Re-entry, and Return Decisions

**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**

SUB-ELEMENT 5.a – Activation of the Prompt Alert and Notification System

**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, as the offsite response organization (ORO), 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 Dresden Station EPZ Prompt Notification System as defined in IPRA-Dresden. 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 Kendall 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.

**SUB-ELEMENT 5.b – Emergency Information and Instructions for the Public and the Media**

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

Grundy County demonstrate this criterion by using pre-scripted messages as indicated in IPRA-Dresden 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 Response Cell. 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 Response Cell.

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

**EVALUATION AREA 6.– SUPPORT OPERATION/FACILITIES**

This Evaluation Area does not apply to Grundy County.

## KENDELL COUNTY

### EVALUATION AREA 1 - EMERGENCY OPERATIONS MANAGEMENT

#### SUB-ELEMENT 1.a - Mobilization

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

Kendall County intends to fully activate the Emergency Operations Center (EOC) in Yorkville, Illinois. The County will implement notification procedures as defined in IPRA-Dresden. Representatives from IEMA, IDNS and the Utility will staff the County EOC but will not be pre-positioned in the County EOC. A roster will be provided to demonstrate 24-hour staffing of the EOC.

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

#### SUB-ELEMENT 1.b - Facilities

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

This criterion will be demonstrated in the Kendall County EOC.

#### SUB-ELEMENT 1.c - Direction and Control

**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 Kendall County EOC. Coordination of decisions and emergency activities will be demonstrated between Kendall County, the State EOC, SFCP and the JPIC Response Cell. Coordination between Kendall, Grundy and Will counties will be demonstrated.

#### SUB-ELEMENT 1.d - Communications Equipment

**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.**

Kendall County will use NARS, commercial telephone, radio and telefax to communicate with departments and agencies at other locations.

#### SUB-ELEMENT 1.e - Equipment and Supplies to Support Operations

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

Kendall 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 during the traffic and access control demonstration.

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

### **SUB-ELEMENT 2.a – Emergency Worker Exposure Control**

**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 Kendall County.

### **SUB-ELEMENT 2.b – Radiological Assessment and Protective Action Recommendations and Decisions for the Plume Phase of the Emergency**

**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 onsite and offsite environmental conditions.**

This criterion does not apply to Kendall 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 Kendall County officials in the County EOC. The Kendall County officials will make the final decision regarding what protective actions will be recommended to the public.

### **SUB-ELEMENT 2.c – Protective Action Decisions Consideration for the Protection of Special Populations**

**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 Kendall County officials in the County EOC. The Kendall County officials will make the final decision regarding what protective actions will be recommended for special population groups.

### **SUB-ELEMENT 2.d – Radiological Assessment and Decision-Making for the Ingestion Exposure Pathway**

**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 Kendall County.

SUB-ELEMENT 2.e – Radiological Assessment and Decision-Making Concerning Relocation, Re-entry, and Return

**Criterion 2.e.1: Timely relocation, re-entry, and return decisions are made and coordinated as appropriate, based on assessments of radiological conditions and criteria in the ORO's plan and/or procedures. Demonstrate the appropriate use of equipment and procedures for determining field radiation measurements.**

This criterion will not be demonstrated during this exercise.

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

SUB-ELEMENT 3.a – Implementation of Emergency Worker Exposure Control

**Criterion 3.a.1: The OROs issues appropriate dosimetry and procedures, and manages radiological exposure to emergency workers in accordance with the plan and procedures.**

Kendall County will demonstrate this objective 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.

SUB-ELEMENT 3.b – Implementation of KI Decision

**Criterion 3.b.1: KI and appropriate instructions are made 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.**

If notified by the State of Illinois to distribute and administer KI, Kendall County officials will discuss the issuance of KI to emergency workers and immobile populations, as a voluntary measure.

SUB-ELEMENT 3.c – Implementation of Protective Actions for Special Populations

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

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

This criterion does not apply to Kendall County. There are no schools in the Kendall County portion of the EPZ.

**SUB-ELEMENT 3.d – Implementation of Traffic and Access Control**

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

Coordination between Kendall 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 Kendall County during the exercise based on exercise play. The staffing of the remaining posts will be simulated.

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

The Kendall 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.

**SUB-ELEMENT 3.e – Implementation of Ingestion Pathway Decisions**

**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 Kendall 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 Kendall County.

**SUB-ELEMENT 3.f – Implementation of Relocation, Re-entry, and Return Decisions**

**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 Kendall County.

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

##### SUB-ELEMENT 5.a - Activation of the Prompt Alert and Notification System

**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.**

Kendall County, as the offsite response organization (ORO), 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 Dresden Station EPZ Prompt Notification System as defined in IPRA-Dresden. 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 (WSPY) 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 Kendall County, Grundy County and Will County will be demonstrated.

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 Kendall County.

##### SUB-ELEMENT 5.b - Emergency Information and Instructions for the Public and the Media

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

Kendall County will demonstrate this criterion by using pre-scripted messages as indicated in IPRA-Dresden. 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 Kendall County through briefings held at the Kendall 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 Kendall County through coordination between the County EOC and the JPIC Response Cell. The Kendall 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 Response Cell.

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

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

This Evaluation Area does not apply to Kendall County.



## WILL COUNTY

### EVALUATION AREA 1 – EMERGENCY OPERATIONS MANAGEMENT

#### SUB-ELEMENT 1.a - Mobilization

**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 partially activate the Emergency Operations Center (EOC) in Joliet, Illinois. The County will implement notifications procedures as defined in IPRA-Dresden. The following Will County Officials will staff the County EOC: County Executives, Emergency Management Director, Sheriff and PIO. 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.

#### SUB-ELEMENT 1.b - Facilities

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

This criterion will be demonstrated in the Will County EOC.

#### SUB-ELEMENT 1.c – Direction and Control

**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 Response Cell, and between the County and municipalities within the EPZ. Coordination between Will County, Grundy County and Kendall County will be demonstrated.

#### SUB-ELEMENT 1.d – Communications Equipment

**Criterion 1.d.1: At least two communication systems are available and operate properly and communication links are established 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.

#### SUB-ELEMENT 1.e – Equipment and Supplies to Support Operations

**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 during the school interview.

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

### **SUB-ELEMENT 2.a – Emergency Worker Exposure Control**

**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 Will County.

### **SUB-ELEMENT 2.b – Radiological Assessment and Protective Action Recommendations and Decisions for the Plume Phase of the Emergency**

**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.

### **SUB-ELEMENT 2.c – Protective Action Decisions for the Protection of Special Populations**

**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.

### **SUB-ELEMENT 2.d – Radiological Assessment and Decisions-Making for the Ingestion Exposure Pathway**

**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 Will County.

SUB-ELEMENT 2.e – Radiological Assessment and Decision-Making Concerning Relocation, Re-entry and Return

**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 in this exercise.

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

SUB-ELEMENT 3.a – Implementation of Emergency Worker Exposure Control

**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.**

This criterion will not be demonstrated during this exercise.

SUB-ELEMENT 3.b – Implementation of KI Decision

**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 criterion will not be demonstrated during this exercise.

SUB-ELEMENT 3.c – Implementation of protective Actions for Special Populations

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

This criterion will not be demonstrated during this exercise.

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

A school interview will be conducted with the Elwood School District on April 30 at 9:00 a.m.

SUB-ELEMENT 3.d – Implementation of Traffic and Access Control

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

This criterion will not be demonstrated during this exercise.

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

This criterion will not be demonstrated during this exercise.

**SUB-ELEMENT 3.e – Implementation of Ingestion Pathway Decisions**

**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.

**SUB-ELEMENT 3.f – Implementation of Relocation, Re-entry, and Return Decisions**

**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 in this exercise.

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

**SUB-ELEMENT 4.a-Plume Phase Field Measurements and Analyses**

This Evaluation Area does not apply to Will County.

**EVALUATION AREA 5 – EMERGENCY NOTIFICATION AND PUBLIC INFORMATION**

**SUB-ELEMENT 5.a – Activation of the Prompt Alert and Notification System**

**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 off-site emergency officials to notify the public of an emergency situation. The initial instructional message to the public must include:**

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 Actions Recommendations (PAR).

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

**Criterion 5.a.2: Activities associated with primary alerting and notification of the public are completed within 15 minutes of verified notification from the utility of an emergency situation requiring urgent action (fast-breaking situation). The initial instructional message to the public must include:**

[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.**

SUB-ELEMENT 5.b – Emergency Information and Instructions for the Public and Media

**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 a portion of this criterion by using pre-scripted messages as indicated in IPRA-Dresden. Contact with the radio station will be simulated for each alert and notification sequence following the initial sequence.

Media briefings and the ability to deal with public inquiries will not be demonstrated during this exercise.

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

SUB-ELEMENT 6.a – Monitoring and Decontamination of Evacuees and Emergency Workers, and Registration of Evacuees.

This Evaluation Area does not apply to Will 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 in the Dresden Nuclear Generating Station exercise on May 1, 2002.

The exercise scenario (plume) submitted by the States of Illinois and Exelon Nuclear Energy Corporation, and approved by FEMA Region V on April 29, 2002.

During the exercises, controllers telephoned inject messages 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 May 01, 2002 Dresden Nuclear Generating Station exercise timeline for the State of Illinois and the Counties of Grundy, Kendall and Will. All time intervals are approximate.

**DRESDEN NUCLEAR GENERATING STATION**  
**MAY 1, 2002, EXERCISE**  
**OFF-SITE TIMELINE**

<u>Approx. Time</u>	<u>Event/Anticipated Response</u>
0730	Initial Conditions/Weather forecast message to players
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0750	An ALERT is declared at Dresden Station.
0805	Exelon notifies IEMA and IDNS Telecommunicators of the ALERT via NARS.  IEMA Telecommunicators verifies the NARS message.  IDNS Telecommunicators activates the IDNS response team.  IDNS Duty Officer contacts the Dresden Station Shift Engineer.  IEMA Dispatcher notifies IEMA personnel of the ALERT per SOP.  IEMA may dispatch liaisons to the county EOCs, Forward Command Post, JPIC and EOF, 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. (Simulated)  IEMA notifies FEMA of the ALERT. (Simulated)
0820	IEMA Telecommunicator notifies the counties of the ALERT via NARS  County telecommunicators complete and verify the NARS message.  County telecommunicators notify county officials and municipalities of the ALERT per SOP.  Counties may activate the EOCs, if appropriate.

Approx.  
Time

Event/Anticipated Response

Municipal dispatchers complete and verify the NARS message.

Municipal dispatchers notify officials of the ALERT per SOP.

0930

A SITE AREA EMERGENCY is declared at Dresden Station.

0945

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

IEMA Telecommunicator verifies the NARS message.

REAC contacts the Dresden 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, Forward Command Post, JPIC and EOF, if not previously dispatched.

IEMA notifies FEMA of conditions. (Simulated)

IEMA notifies State agencies (Simulated):

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

IDNS contacts Federal and State support agencies. (Simulated)

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



<u>Approx. Time</u>	<u>Event/Anticipated Response</u>
	REAC provides an update to the IDNS PIO.
1000	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 per SOP.
	County EOCs are activated if not previously activated.
	Counties implement public notification procedures, if appropriate. (Simulated)
	Municipal dispatchers complete and verify the NARS message.
	Municipal dispatchers notify officials per SOP.
	Dosimetry is issued to emergency personnel, EOC staff and exposure records are completed.
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1030	A GENERAL EMERGENCY is declared at Dresden Station.
1045	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 EOC liaisons and JPIC staff of the situation.
	IEMA notifies FEMA of conditions. (Simulated)
	IDNS contacts Federal and State support agencies. (Simulated)

<u>Approx. Time</u>	<u>Event/Anticipated Response</u>
	REAC provides an update to the State EOC Liaison and the county EOC Liaisons.
	REAC provides an update to the IDNS PIO.
1100	<p>IEMA notifies the counties of the GENERAL EMERGENCY and the recommended protective actions via NARS.</p> <p>County telecommunicators complete and verify the NARS message.</p> <p>County telecommunicators notify County officials, and municipalities per SOP.</p> <p>County officials decide what protective actions will be recommended and implement public notification procedures and traffic and access control per SOPs, as applicable.</p> <p>Municipal dispatchers complete and verify the NARS message.</p> <p>Municipal dispatchers notify EOC staff.</p>
<hr/>	
1230	The exercise is terminated onsite and offsite.