



Final Exercise Report

Quad Cities Nuclear Power Station

Licensee: **Exelon Nuclear**

Exercise Date: **July 12, 2000**

Report Date: **February 2, 2001**

**FEDERAL EMERGENCY MANAGEMENT AGENCY
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I. EXECUTIVE SUMMARY

On July 12, 2000, an exercise was conducted in the plume exposure pathway emergency planning zone (EPZ) around the Quad Cities Nuclear Power 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 (RERP) and procedures.

The most recent exercise at this site was conducted on August 26, 1998. The qualifying emergency preparedness exercise was conducted on May 20, 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 Rock Island and Whiteside 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.

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 and three Areas Requiring Corrective Action (ARCAs) identified as a result of this exercise.

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 Quad Cities Nuclear Power Station to FEMA Region V by the State of Illinois and involved local jurisdictions occurred on December 15, 1982. Formal approval of these RERPs was granted by FEMA on March 2, 1984, under 44 CFR 350.

A REP exercise was conducted on July 12, 2000 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 Quad Cities Nuclear Power 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-REP-15, "Radiological Emergency Preparedness Exercise Evaluation Methodology," September 1991.

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 objectives at each jurisdiction or functional entity evaluated in a jurisdiction-based, issues only format. This section also contains: (1) description of the ARCAs assessed during this exercise, recommended corrective actions, and the State and local governments' schedule of corrective actions for each identified exercise issue and (2) descriptions of unresolved ARCAs assessed during previous exercises and the status of the OROs' efforts to resolve them.

III. EXERCISE OVERVIEW

Contained in this section are data and basic information relevant to the July 12, 2000, exercise to test the offsite emergency response capabilities in the area surrounding the Quad Cities Nuclear Power Station. This section of the exercise report includes a description of the plume pathway EPZ, a listing of all participating jurisdictions and functional entities which were evaluated, and a tabular presentation of the time of actual occurrence of key exercise events and activities.

A. Plume Emergency Planning Zone Description

The Quad Cities Nuclear Power Station is located in Rock Island County, Illinois. The Station is 20 miles northeast of the Quad Cities. It is on the eastern bank of the Mississippi River opposite the mouth of the Wapsipinicon River.

The topography of the site and its immediate environs is low and relatively flat, with a mean elevation of approximately 605 feet. The ground surface drops off abruptly at the bank of the river, forming a bluff about 30 feet high.

The 10-mile EPZ encompasses the following jurisdictions: Rock Island County, which includes the cities of Cordova and Port Byron, and Whiteside County, which includes the City of Albany. The estimated 1990 population of the 10-mile EPZ is 5,776 persons.

The primary land use around the Quad Cities Station is agricultural, with cash grain crops of corn and soybeans. The closest major industries are located in the Cordova Industrial Park northeast of the Station.

Major transportation facilities in the Quad Cities Station 10-mile EPZ are limited to Interstate Highway 88, which passes nine and one-half (9 ½) miles southeast of the Station; the Chicago, Milwaukee, St. Paul and Pacific Railroad, and State Highway 84 which run adjacent and parallel to each other and pass approximately three-fourths (¾) of a mile east of the Station; and the Mississippi River.

B. Exercise Participants

The following agencies, organizations, and units of government participated in the Quad Cities Nuclear Power Station exercise on July 12, 2000. In addition to these participants, the FEMA Region V Public Information Officer participated in the exercise at the Joint Public Information Center in Morrison, Illinois.

STATE OF ILLINOIS

Illinois Army National Guard
Illinois Commerce Commission (ICC)

Illinois Department of Agriculture (IDOA)
Illinois Department of Corrections (IDOC)
Illinois Department of Natural Resources (IDNR)
Illinois Department of Nuclear Safety (IDNS)
Illinois Department of Transportation (IDOT)
Illinois Department of Public Health (IDPH)
Illinois Emergency Management Agency (IEMA)
Illinois Environmental Protection Agency (IEPA)
Illinois State Police (ISP)
Navy Emergency Preparedness Liaison Officer (NEPLO)

RISK JURISDICTIONS

ROCK ISLAND COUNTY

Rock Island County Executive (Board Chairman)
Rock Island County Emergency Services and Disaster Agency
(ESDA)
Rock Island County Coroner
Rock Island County Health Department
Rock Island County Highway Department
Rock Island County Sheriff's Department
Rock Island County Regional Superintendent of Schools

WHITESIDE COUNTY

Whiteside County Board Chairman
Whiteside County ESDA
Whiteside County Sheriff's Department
Whiteside County Highway Department
Whiteside County Health Department
Whiteside County Coroner
Whiteside County Public Information Officer
Whiteside County Regional Superintendent of Schools
Riverbend School District

PRIVATE/VOLUNTEER ORGANIZATIONS

American Red Cross
Commonwealth Edison Company
Radio Amateur Communications Emergency Service (RACES)
Radio Station WKBF/WHTS AM/FM
Radio Station WSDR/WZZT/WSSQ AM/FM

C. Exercise Timeline

Table 1, on the following page, presents the time at which key events and activities occurred during the Quad Cities Nuclear Power Station exercise on July 12, 2000. Also included are times notifications were made to the participating jurisdictions/functional entities.

Table 1. Exercise Timeline

DATE AND SITE: July 12, 2000, Quad Cities Nuclear Power Station

Emergency Classification Level or Event	Time Utility Declared	Time That Notification Was Received or Action Was Taken						
		EOF	STATE EOC	REAC	SFCP	Rock Island County EOC	Whiteside County EOC	JPIC
Unusual Event	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alert	0746	0757	0759	0759	0857	0838	0838	N/A
Site Area Emergency	1004	1004	1013	1013	1028	1028	1033	1024
General Emergency	1135	1135	1138	1138	1145	1200	1200	1157
Simulated Radiation Release Started	1135	1135	1138	1138	1145	1200	1200	1157
Simulated Radiation Release Terminated	1330	1330	N/A	N/A	N/A	1330	1330	N/A
Facility Declared Operational		0816	0907	0843	N/A	0946	0910	0945
Declaration of State of Emergency		N/A	1040	N/A	1040	1040	1040	N/A
Exercise Terminated: Plume Pathway Phase		1335	1320	1320	1320	1330	1330	1330
KI for Emergency Workers and Immobile Populations		N/A	N/A	N/A	1215	1158	1158	N/A
Early Precautionary Action Decision: Evacuate Sub-area 1, Shelter Sub-areas 2 and 4.		N/A	N/A	N/A	N/A	1033	1033	N/A
1st Siren Activation		N/A	N/A	N/A	N/A	1040	1040	N/A
1st EBS Activation		N/A	N/A	N/A	N/A	1042	1042	N/A
1st Protective Action Decision: Evacuate Sub-area 1, Shelter Sub-areas 2 and 4, and issue KI in accordance with procedures. Confine milk-producing animals on stored feed and protected water to 10 miles.		N/A	N/A	N/A	N/A	1204	1204	N/A
2 nd Siren Activation		N/A	N/A	N/A	N/A	1215	1215	N/A
2 nd EBS Activation		N/A	N/A	N/A	N/A	1217	1217	N/A
2 nd Protective Action Decision: Evacuate Sub-areas 1 and 2, and Shelter Sub-area 4. KI and livestock remained in effect.		N/A	N/A	N/A	N/A	N/A	1223	N/A
3 rd Siren Activation		N/A	N/A	N/A	N/A	N/A	1230	N/A
3rd EBS Activation		N/A	N/A	N/A	N/A	N/A	1231	N/A

LEGEND:

D - Decision Making Jurisdiction A - Activating Jurisdiction N/A - Not Applicable Blank - Not Reported

* - State EOC Makes Protective Action Recommendation Only.

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 July 12, 2000, exercise to test the offsite emergency response capabilities of State and local governments in the 10-mile EPZ surrounding the Quad Cities Nuclear Power Station.

Each jurisdiction and functional entity was evaluated on the basis of its demonstration of criteria delineated in exercise objectives contained in FEMA-REP-14, REP Exercise Manual, September 1991. Detailed information on the exercise objectives 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 objectives from FEMA-REP-14 which were scheduled for demonstration during this exercise by all participating jurisdictions and functional entities. Exercise objectives are listed by number and the demonstration status of those objectives 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 assessed
- A - ARCA(s) assessed or unresolved ARCA(s) from prior exercise(s)
- N - Not Demonstrated (Reason explained in Subsection B)

Table 2. Summary Results of Facility Evaluation

DATE AND SITE: July 12, 2000, Quad Cities Nuclear Power Station

JURISDICTION / FUNCTIONAL ENTITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	
STATE OF ILLINOIS																																		
State Emergency Operations Center	M	M	M	M					M	M	M	M	M																					
Radiological Emrgncy Assessment Cntr	M	M	M	M			M		A																									
State Forward Command Post			M	M	M									M																				
Emergency Operations Facility	M	M		M			M					M																						
Joint Public Information Center	M	M	M	M								M	M																					
Evacuee Mon/Decon/Registration				M	M													M																
Congregate Care			M	M															M															
Emrgncy. Worker/Vehicle Mon/Decon				M	M																M													
RAFT Mobile Laboratory		M	M	M	M																					M								
RAFT Field Team Green				M	M	M		M						M											M									
RAFT Field Team Red				M	M	M		M						M											M									
RAFT Field Team Brown				M	M	M		M						M											M									
Traffic and Access Control					M													M																
RISK JURISDICTIONS																																		
ROCK ISLAND COUNTY																																		
County Emergency Operations Center	M	M	M	M					M	M	M		M	M	M	M													M	M	M	M	M	
Initial Notification Point	M			M																												M	M	
Local Media Briefing												M																						
Traffic and Access Control				M	M									M				M																
EBS Radio - WKBF/WHTS											M																							
WHITESIDE COUNTY																																		
County Emergency Operations Center	M	M	M	M	M				A	M	M		M	M	M	M													M			M	M	
Initial Notification Point	M			M																													M	M
Local Media Briefing												M																						
Traffic and Access Control				M	M									M				M																
EBS Radio - WSDR/WZZT/WSSQ											M																							
Riverbend School District					M												A																	

LEGEND:

M = Met (No Deficiency or ARCA's assessed) A = ARCA(s) assessed or prior ARCAs not resolved D = Deficiency(ies) assessed

N = Not Demonstrated Blank = Not Scheduled For Demonstration

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 objective demonstration status.

- **Met** - Listing of the demonstrated exercise objectives 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 objectives under which one or more Deficiencies was assessed during this exercise. Included is a description of each Deficiency and recommended corrective actions.
- **Area Requiring Corrective Actions** - Listing of the demonstrated exercise objectives 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 objectives which were not demonstrated as scheduled during this exercise and the reason they were not demonstrated.
- **Prior ARCAs - Resolved** - Descriptions of ARCAs assessed during previous exercises which were resolved in this exercise and the corrective actions demonstrated.
- **Prior ARCAs - Unresolved** - Descriptions of ARCAs assessed during prior exercises which were not resolved in this exercise. Included is the reason the ARCA remains unresolved and recommended corrective actions to be demonstrated before or during the next biennial exercise.

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

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

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

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

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

- **Plant Site Identifier** - A two-digit number corresponding to the Utility Billable Plant Site Codes.
- **Exercise Year** - The last two digits of the year the exercise was conducted.
- **Objective Number** - A two-digit number corresponding to the objective numbers in FEMA-REP-14.
- **Issue Classification Identifier** - (D = Deficiency, A = ARCA). Only Deficiencies and ARCA are included in exercise reports.
- **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 State Emergency Operations Center

- a. **MET:** Objectives 1, 2, 3, 4, 9, 10, 11, 12 and 13
- 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 Radiological Emergency Assessment Center

- a. **MET:** Objectives 1, 2, 3, 4 and 7
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION:** Objective 9

Issue No.: 51-00-9-A-03

Description: According to the State of Illinois' Nuclear Accident Reporting System (NARS) Form message transmitted to Whiteside County at 1028 hours, the Radiological Emergency Assessment Center (REAC) provided information to the State Emergency Operations Center (EOC) that was included in the 1025 Protective Action Recommendation (PAR) to Whiteside County to shelter sub-areas 2 and 4, and evacuate sub-area 1, and to upgrade the emergency classification level (ECL) to a Site Area Emergency (SAE). At 1200 hours, a NARS form message was transmitted with the recommendation to confine milk-producing animals on stored feed and protected water out to a 10-mile radius, after the ECL had already been upgraded to a General Emergency at 1135 hours. The recommendation to take protective actions for livestock after protective actions had already been issued to members of the public unnecessarily placed livestock owners at risk of radiation exposure.

Recommendation: Livestock advisories should be issued prior to issuing protective action recommendations to shelter or evacuate the public. This would preclude the potential for exposing livestock owners to radiation unnecessarily. (NUREG-0654: D.4 and J.9)

Schedule of Corrective Actions: The State of Illinois is devising a proposed plan change as a means to avoid this situation in the future. The plan change would make the issuance of the livestock advisory an automatic action at the Site Area Emergency for the 10-mile radius if protective actions (PARs) have not been recommended. If PARs have been recommended, the livestock advisory would apply to sections of the EPZ not impacted by the PAR. The State intends to make the plan change prior to the upcoming Clinton Power Station exercise.

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

1.3 State Forward Command Post

- a. **MET: Objectives 2, 3, 4 and 14**
- 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 Emergency Operations Facility

- a. **MET: Objectives 1, 2, 4, 7 and 12**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs - RESOLVED: NONE**
- f. **PRIOR ARCAs - UNRESOLVED: NONE**

1.5 Joint Public Information Center

- a. **MET: Objectives 1, 2, 3, 4, 12 and 13**

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

1.6 Evacuee Monitoring/Decontamination/Registration

- a. MET: Objectives 4, 5 and 18
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION: NONE
- d. NOT DEMONSTRATED: NONE
- e. PRIOR ARCAs - RESOLVED: NONE
- f. PRIOR ARCAs - UNRESOLVED: NONE

1.7 Congregate Care

- a. MET: 3, 4 and 19
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION: NONE
- d. NOT DEMONSTRATED: NONE
- e. PRIOR ARCAs - RESOLVED: NONE
- f. PRIOR ARCAs - UNRESOLVED: NONE

1.8 Emergency Worker/Vehicle Monitoring/Decontamination

- a. MET: Objectives 4, 5 and 22
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION: NONE

- d. NOT DEMONSTRATED: NONE
- e. PRIOR ARCAs - RESOLVED: NONE
- f. PRIOR ARCAs - UNRESOLVED: NONE

1.9 Radiological Assessment Field Team (RAFT) Mobile Lab

- a. MET: Objectives 2, 3, 4, 5 and 25
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION: NONE
- d. NOT DEMONSTRATED: NONE
- e. PRIOR ARCAs – RESOLVED: NONE
- f. PRIOR ARCAs – UNRESOLVED: NONE

1.10 RAFT - Field Team Green

- a. MET: Objectives 4, 5, 6, 8, 14 and 24
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION: NONE
- d. NOT DEMONSTRATED: NONE
- e. PRIOR ARCAs – RESOLVED: NONE
- f. PRIOR ARCAs – UNRESOLVED: NONE

1.11 RAFT - Field Team Red

- a. MET: 4, 5, 6, 8, 14 and 24
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION: NONE
- d. NOT DEMONSTRATED: NONE
- e. PRIOR ARCAs – RESOLVED: NONE

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

1.12 RAFT – Field Team Brown

- a. **MET: Objectives 4, 5, 6, 8, 14 and 24**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs – RESOLVED: NONE**
- f. **PRIOR ARCAs – UNRESOLVED: NONE**

1.13 Traffic and Access Control

- a. **MET: Objectives 5 and 17**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs – RESOLVED: NONE**
- f. **PRIOR ARCAs – UNRESOLVED: NONE**

2. RISK JURISDICTIONS

2.1 ROCK ISLAND COUNTY

2.1.1 County Emergency Operations Center

- a. **MET: Objectives 1, 2, 3, 4, 9, 10, 11, 13, 14, 15, 16, 29, 30, 31, 32 and 33**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs - RESOLVED:**

Issue No.: 51-98-30-A-02

Description: According to the extent of play for Objective #30, six key staff positions at the Rock Island County EOC were to demonstrate a shift change. The shift changes did not occur at the same time, but were initiated at various times during the exercise for each of the key staff members. Four of the six positions successfully demonstrated the shift change, however, problems were observed with two remaining positions, namely, the Regional Superintendent of Schools and the ESDA Coordinator. Although the Regional Superintendent of Schools was requested to demonstrate the shift change at 1135 hours, the person who eventually took over the second shift had already been assisting the first shift person for much of the exercise. In addition, the second shift replacement for the ESDA Coordinator had already been participating in the exercise as an assistant to the first shift ESDA Coordinator from the time the EOC was activated. In accordance with FEMA-REP-14, an exercise shift change should provide for a "one-for-one replacement of personnel", and the shift change "should be accomplished as it would be in an actual emergency." In an actual emergency, replacement personnel would not consist of personnel who have already been working the previous shift, as was done during the exercise. (NUREG-0654: A.4.)

Corrective Action Demonstrated: At 1140 hours, the second shift replacement for the ESDA Coordinator arrived at the EOC, and the first shift person completed briefing him at 1148 hours. At 1153 hours, the second shift replacement for the Regional Superintendent of Schools arrived, and the first shift person completed briefing him by 1216 hours.

In both cases the incoming shifts were thoroughly briefed by the outgoing shifts on the current status of the emergency, including emergency classification levels (ECLs) and protective action decisions. Both shifts demonstrated knowledge of their emergency response roles and functions. The successful demonstration of the shift changes for the ESDA Coordinator and Regional Superintendent of Schools resolves this issue.

f. **PRIOR ARCAs – UNRESOLVED: NONE**

2.1.2 Initial Notification Point

- a. **MET:** Objectives 1, 4, 32 and 33
- 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 Local Media Briefing

- a. **MET: Objective 12**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs - RESOLVED:**

Issue No.: 51-98-12-A-01

Description: During media briefings, the 1st and 2nd shift ESDA Coordinators did not provide the mock media either verbal or written information on press releases issued by the JPIC, or on EBS messages that contained background information on protective action recommendations or decisions. According to the Illinois plan for Radiological Accidents (IPRA)-Volume IV, Chapter 2, page 15, E.1: "The news media briefing locations will coordinate the press during a nuclear power station incident. Contact persons have been identified for each news media briefing location and alternate location." The plan further states in Chapter 2, page 19, F.2.b.: "The principle executive officers of Rock Island County and the municipalities therein will be responsible for the overall command of emergency response operations." The IPRA-Volume I, Chapter 5, page 1, Section A, paragraph 5 states: "All information prepared for release by the State of Illinois, the operating utility, county and municipal governments, contiguous states and Federal agencies will be shared with all other interested parties to ensure coordination." (NUREG-0654: E.7; G.4.b.)

Corrective Action Demonstrated: One media briefing was given at 1125 hours in the county EOC. Information for the media briefing was gathered from previous news releases, EBS messages, and current information from the EOC staff. During the media briefing, the ESDA Coordinator discussed the timeline of the emergency conditions as the emergency classification levels escalated from ALERT to SITE AREA EMERGENCY (a GENERAL EMERGENCY had not yet been declared), sheltering and evacuation information, evacuation routes, reception centers and congregate care centers, information for special needs persons, and public brochure information. The briefing was very accurate and clear, and consistent with the information previously released. Additionally, all protective action areas were described using familiar landmarks and boundaries. The successful demonstration of the media briefing resolves this issue.

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

2.1.4 Traffic and Access Control

- a. **MET:** Objectives 4, 5, 14 and 17
- 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 EBS Radio Station WKBF/WHTS AM/FM

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

2.2 WHITESIDE COUNTY

2.2.1 County Emergency Operations Center

- a. **MET:** Objectives 1, 2, 3, 4, 5, 10, 11, 13, 14, 15, 16, 29, 32 and 33
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION:** Objective 9

Issue No.: 51-00-9-A-01

Description: A Protective Action Decision to shelter the population in Sub-Areas 2 and 4 within the 10-mile EPZ was presented to the public at 1040 hours (after being made at approximately 1034 hours). A Protective Action Decision to put animals on stored feed was subsequently presented at 1205 hours. This timing is such that farm families would be ordered to deal with their animals at a time when they would already be sheltering in their houses if they had followed the preceding PAD. (NUREG-0654: II.J.9)

Recommendation: Livestock advisories should be issued prior to issuing protective action recommendations to shelter or evacuate the public. This would preclude the potential for exposing livestock owners to radiation unnecessarily. (NUREG-0654: D.4 and J.9)

Schedule of Corrective Actions: The State of Illinois is devising a proposed plan change as a means to avoid this situation in the future. The plan change would make the issuance of the livestock advisory an automatic action at the Site Area Emergency for the 10-mile radius if protective actions (PARs) have not been recommended. If PARs have been recommended, the livestock advisory would apply to sections of the EPZ not impacted by the PAR. The State intends to make the plan change prior to the upcoming Clinton Power Station exercise.

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

2.2.2 Initial Notification Point

- a. **MET: Objective 1, 4, 32 and 33**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs - RESOLVED: NONE**
- f. **PRIOR ARCAs - UNRESOLVED: NONE**

2.2.3 Local Media Briefing

- a. **MET: Objective 12**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs - RESOLVED: NONE**

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

2.2.4 Traffic and Access Control

- a. **MET: Objectives 4, 5, 14 and 17**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs - RESOLVED: NONE**
- f. **PRIOR ARCAs - UNRESOLVED: NONE**

2.2.5 EBS Radio Station WSDR/WZZT/WSSQ AM/FM

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

2.2.6 Riverbend School District

- a. **MET: Objective 5**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: Objective 16**

Issue No.: 51-00-16-A-02

Description: The Albany Elementary School Principal indicated that the school had appropriate written procedures; and when requested, he produced a file of written procedures for emergencies. The file included a ComEd Emergency Planning folder for the Quad Cities Area and typed procedures that appeared to be largely generic or written

specifically for other types of emergencies (for example, what to do if an individual has a firearm). (NUREG-0654: II.A.2.a.)

Recommendation: It is recommended that the Albany Elementary School have detailed procedures in place, specifically for a radiological emergency at the Quad Cities plant, and that these procedures address sheltering, early dismissal, and relocation of school children.

Schedule of Corrective Actions: Detailed procedures exist for the Albany Elementary School Principal. A copy of these procedures are maintained at the School. An update was provided to the Principal prior to the exercise. The fact that he did not bring a copy to the EV-2 interview was an oversight. We will verify that the Principal still has the updated copy of the procedure that was provided to him prior to the exercise. This will be demonstrated by the Albany Elementary School during their next EV-2 interview to be conducted during the week of the 2004 Quad Cities exercise.

- 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 Quad Cities Nuclear Power Station exercise on July 12, 2000. Evaluator Team Leaders are indicated by the letters "(TL)" after their names. The organization which each evaluator represents is indicated by the following abbreviations:

FEMA	- Federal Emergency Management Agency
ANL	- Argonne National Laboratory
SSI	- SSI Services, Inc.

<u>RAC CHAIR/EXERCISE DIRECTOR</u>	<u>NAME</u>	<u>ORGANIZATION</u>
RAC Chair	W. Curtis	FEMA
Exercise Director	W. King	FEMA

<u>EVALUATION SITE</u>	<u>EVALUATOR</u>	<u>ORGANIZATION</u>
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STATE OF ILLINOIS

Emergency Operations Center	C. Sturghill (TL)	FEMA
	J. Austin	ANL
	B. Murphy	FEMA
Radiological Emergency Assessment Center	R. Lowden	SSI
Emergency Operations Facility	K. Flynn	ANL
State Forward Command Post - Traffic and Access Control	J.P. Varma	USDOT/RAC
Joint Public Information Center	W. Lueders	ANL
Evacuee Monitoring/Decontamination/Registration	J. Mitchell	USEPA/RAC
Congregate Care	K. Flynn	ANL
Emergency Worker/Vehicle Monitoring/Decontamination	J. Keller	Bechtel BWXT Idaho
Radiological Assessment Field Team:		
Mobile Laboratory	H. Harrison	ANL
Field Team A	R. Lickus	USNRC/RAC
Field Team B	J. Keller	Bechtel BWXT Idaho
Field Team C	J. Mitchell	USEPA/RAC

<u>EVALUATION SITE</u>	<u>EVALUATOR</u>	<u>ORGANIZATION</u>
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ROCK ISLAND COUNTY

Emergency Operations Center	C. Crackel (TL)	FEMA
	A. Birman	FEMA
	R. Graham	USDA/RAC
	R. Kowieski	ANL
	R. Smith	ANL
EBS Radio Station WKBK/WHTS	R. Kowieski	ANL
Traffic and Access Control Point	A. Birman	FEMA

WHITESIDE COUNTY

Emergency Operations Center	C. Lloyd (TL)	FEMA
	G. Goforth	ANL
	C. Herzenberg	ANL
	G. Naskrent	FEMA
	R. Rospenda	ANL
EBS Radio Station WSDR/WZZT/WSSQ	R. Rospenda	ANL
Traffic and Access Control Point	G. Goforth	ANL
EV-2 Interview/Riverbend School District	C. Herzenberg	ANL

APPENDIX 3

EXERCISE OBJECTIVES AND EXTENT-OF-PLAY AGREEMENT

This appendix lists the exercise objectives which were scheduled for demonstration in the Quad Cities Nuclear Power Station exercise on July 12, 2000, and the extent-of-play agreement.

The exercise objectives, contained in FEMA-REP-14, "Radiological Emergency Preparedness Exercise Manual," 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 objectives are intended for use at all nuclear power plant sites, and because of variations among offsite plans and procedures, an extent-of-play agreement is prepared by the State and approved by FEMA to provide evaluators with guidance on expected actual demonstration of the objectives.

A. Exercise Objectives

Listed below are the specific radiological emergency preparedness objectives scheduled for demonstration during this exercise.

OBJECTIVE 1: MOBILIZATION OF EMERGENCY PERSONNEL

Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations.

OBJECTIVE 2: FACILITIES - EQUIPMENT, DISPLAYS, AND WORK ENVIRONMENT

Demonstrate the adequacy of facilities, equipment, displays and other materials to support emergency operations.

OBJECTIVE 3: DIRECTION AND CONTROL

Demonstrate the capability to direct and control emergency operations.

OBJECTIVE 4: COMMUNICATIONS

Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field.

OBJECTIVE 5: EMERGENCY WORKER EXPOSURE CONTROL

Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers.

**OBJECTIVE 6: FIELD RADIOLOGICAL MONITORING – AMBIENT
RADIATION MONITORING**

Demonstrate the appropriate use of equipment and procedures for determining field radiation measurements.

OBJECTIVE 7: PLUME DOSE PROJECTION

Demonstrate the capability to develop dose projections and protective action recommendations regarding evacuation and sheltering.

**OBJECTIVE 8: FIELD RADIOLOGICAL MONITORING – AIRBORNE
RADIOIODINE AND PARTICULATE ACTIVITY
MONITORING**

Demonstrate the appropriate use of equipment and procedures for the measurement of airborne radioiodine concentrations as low as 10^{-7} (0.0000001) microcuries per cubic centimeter in the presence of noble gases and obtain samples of particulate activity in the airborne plume.

OBJECTIVE 9: PLUME PROTECTIVE ACTION DECISION MAKING

Demonstrate the capability to make timely and appropriate protective action decisions.

OBJECTIVE 10: ALERT AND NOTIFICATION

Demonstrate the capability to promptly alert and notify the public within the 10-mile plume pathway emergency planning zone and disseminate instructional messages to the public on the basis of decisions by appropriate State or local officials.

**OBJECTIVE 11: PUBLIC INSTRUCTIONS AND EMERGENCY
INFORMATION**

Demonstrate the capability to coordinate the formulation and dissemination of accurate information and instructions to the public.

OBJECTIVE 12: EMERGENCY INFORMATION - MEDIA

Demonstrate the capability to coordinate the development and dissemination of clear, accurate, and timely information to the news media.

OBJECTIVE 13: EMERGENCY INFORMATION - RUMOR CONTROL

Demonstrate the capability to establish and operate rumor control in a coordinated and timely manner.

OBJECTIVE 14: IMPLEMENTATION OF PROTECTIVE ACTIONS - USE OF POTASSIUM IODIDE FOR EMERGENCY WORKERS, INSTITUTIONALIZED INDIVIDUALS, AND THE GENERAL PUBLIC

Demonstrate the capability and resources to implement potassium iodide protective actions for emergency workers, institutionalized individuals, and, if the State plan specifies, the general public.

OBJECTIVE 15: IMPLEMENTATION OF PROTECTIVE ACTIONS - SPECIAL POPULATIONS

Demonstrate the capability and resources necessary to implement appropriate protective actions for special populations.

OBJECTIVE 16: IMPLEMENTATION OF PROTECTIVE ACTIONS - SCHOOLS

Demonstrate the capability and resources necessary to implement protective actions for school children within the plume pathway emergency planning zone.

OBJECTIVE 17: TRAFFIC AND ACCESS CONTROL

Demonstrate the organizational capability and resources necessary to control evacuation traffic flow and to control access to evacuated and sheltered areas.

OBJECTIVE 18: RECEPTION CENTER - MONITORING, DECONTAMINATION AND REGISTRATION

Demonstrate the adequacy of procedures, facilities, equipment, and personnel for the radiological monitoring, decontamination and registration of evacuees.

OBJECTIVE 19: CONGREGATE CARE

Demonstrate the adequacy of facilities, equipment, supplies, personnel, and procedures for congregate care of evacuees.

OBJECTIVE 22: EMERGENCY WORKERS, EQUIPMENT, AND VEHICLES - MONITORING AND DECONTAMINATION

Demonstrate the adequacy of procedures for the monitoring and decontamination of emergency workers, equipment, and vehicles.

OBJECTIVE 24: POST-EMERGENCY SAMPLING

Demonstrate the use of equipment and procedures for the collection and transportation of samples from areas that received deposition from the airborne plume.

OBJECTIVE 25: LABORATORY OPERATIONS

Demonstrate laboratory operations and procedures for measuring and analyzing samples.

**OBJECTIVE 29: RELOCATION, RE-ENTRY, AND RETURN -
IMPLEMENTATION**

Demonstrate the capability to implement appropriate measures for relocation, re-entry, and return.

OBJECTIVE 30: CONTINUOUS, 24-HOUR STAFFING

Demonstrate the capability to maintain staffing on a continuous, 24-hour basis through an actual shift change.

**OBJECTIVE 31: OFFSITE SUPPORT FOR THE EVACUATION OF ONSITE
PERSONNEL**

Demonstrate the capability to provide offsite support for the evacuation of onsite personnel.

OBJECTIVE 32: UNANNOUNCED EXERCISE OR DRILL

Demonstrate the capability to carry out emergency response functions in an unannounced exercise or drill.

OBJECTIVE 33: OFF-HOURS EXERCISE OR DRILL

Demonstrate the capability to carry out emergency response functions during an off-hours exercise or drill.

B. Extent-of-Play Agreement

The extent-of-play agreement on the following pages was submitted by the State of Illinois in preparation for the Quad Cities Nuclear Power Station exercise on July 12, 2000. The extent-of-play agreement includes any significant modification or change in

the level of demonstration of each exercise objective listed in Subsection A of this appendix.

STATE OF ILLINOIS OBJECTIVES:

OBJECTIVE 1: MOBILIZATION OF EMERGENCY PERSONNEL

The State Emergency Operations Center (EOC) will be fully activated. The IEMA Dispatcher will implement procedures for notification of IEMA staff as defined in IEMA SOPs. State agency liaisons will be contacted and will report to the State EOC.

The State Forward Command Post (SFCP) at the Morrison IDOT Yard will be activated with State district and regional personnel. IEMA personnel will be pre-positioned in the Quad Cities Station area and dispatched to the county EOCs, SFCP, the JPIC and the EOF.

The IDNS Dispatcher will implement notification procedures in accordance with IDNS SOPs. REAC will be fully activated. RAFT will be activated at the Garden Plain Township facility. IDNS personnel will be pre-positioned in the Quad Cities Station vicinity for response to the county EOCs, SFCP, JPIC, EOF and TSC.

The pre-positioned State staff will begin exercise play at the following facilities no earlier than the Alert classification:

SFCP
JPIC
EOF
TSC
County EOCs

OBJECTIVE 2: FACILITIES - EQUIPMENT, DISPLAYS, AND WORK ENVIRONMENT

Demonstrate the adequacy of facilities, equipment, displays, and other materials to support emergency operations.

This objective will be demonstrated in State facilities through the use of maps, status boards and displays as appropriate.

OBJECTIVE 3: DIRECTION AND CONTROL

Demonstrate the capability to direct and control emergency operations.

The ability to direct and control emergency response activities will be demonstrated at the State EOC, REAC, the Forward Command Post, RAFT and the JPIC. Coordination will

be demonstrated between the State EOC, REAC, the SFCP, RAFT, the JPIC, the EOF, and the county EOCs.

OBJECTIVE 4: COMMUNICATIONS

Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field.

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, and radio).

OBJECTIVE 5: EMERGENCY WORKER EXPOSURE CONTROL

Demonstrate the ability to continuously monitor and control radiation exposure to emergency workers.

This objective will be demonstrated during the traffic and access control demonstration and during field operations activities at the RAFT Staging Area. The Illinois State Police will bring dosimetry packets to the SFCP from their district headquarters.

OBJECTIVE 6: FIELD RADIOLOGICAL MONITORING – AMBIENT RADIATION MONITORING

Demonstrate the appropriate use of equipment and procedures for determining field radiation measurements.

This objective will be demonstrated by IDNS at RAFT with field teams performing radiation measurements with various monitoring equipment.

OBJECTIVE 7: PLUME DOSE PROJECTION

Demonstrate the capability to develop dose projections and protective action recommendations regarding evacuation and sheltering.

The ability to project dosage to the public via plume exposure based on plant and field data will be demonstrated by IDNS through coordination between REAC, RAFT and the EOF.

The ability to project dosage to the public via plume exposure based on plant and field data will be demonstrated by IDNS through coordination between REAC and the EOF.

OBJECTIVE 8: FIELD RADIOLOGICAL MONITORING – AIRBORNE RADIOIODINE AND PARTICULATE ACTIVITY MONITORING

Demonstrate the appropriate use of equipment and procedures for the measurement of airborne radioiodine concentrations as low as 10^{-7} (0.0000001) microcuries per cubic centimeter in the presence of noble gases and obtain samples of particulate activity in the airborne plume.

IDNS will demonstrate this objective in RAFT. Air samples will be taken with charcoal cartridges and the availability of silver zeolite cartridges will be indicated. Air samples will also be taken with particulate filters and the filters will be analyzed at the Mobile Laboratory.

OBJECTIVE 9: PLUME PROTECTIVE ACTION DECISION MAKING

Demonstrate the capability to make timely and appropriate protective action decisions (PAD).

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 REAC.

The ability to make the decision to recommend the use of KI to emergency workers and institutionalized persons will be demonstrated by IDNS in REAC.

OBJECTIVE 10: ALERT AND NOTIFICATION

Demonstrate the capability to promptly alert and notify the public within the 10-mile plume pathway emergency planning zone (EPZ) and disseminate instructional messages to the public on the basis of decisions by appropriate State or local officials.

The State's role in demonstrating this objective 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 SFCP through the IEMA representative in the county EOCs.

The State's role in demonstrating this objective 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 SFCP through the IEMA representative in the county EOCs.

OBJECTIVE 11: PUBLIC INSTRUCTIONS AND EMERGENCY INFORMATION

Demonstrate the capability to coordinate the formulation and dissemination of accurate information and instructions to the public.

The State will demonstrate this objective by transmitting the State's protective action recommendation (PAR) to the counties. The State will also monitor the instructional messages provided to the public by the counties. This monitoring will be accomplished by the SFCP through the IEMA representatives in the county EOCs.

OBJECTIVE 12: EMERGENCY INFORMATION - MEDIA

Demonstrate the capability to coordinate the development and dissemination of clear, accurate, and timely information to the news media.

This objective will be demonstrated at the JPIC in coordination with the State EOC, REAC, SFCP and the county EOCs. IEMA and IDNS personnel will be present at the JPIC to coordinate with ComEd. Media briefings will be conducted at the JPIC.

OBJECTIVE 13: EMERGENCY INFORMATION - RUMOR CONTROL

Demonstrate the capability to establish and operate rumor control in a coordinated and timely manner.

This objective will be demonstrated by the State through coordination between the JPIC, State EOC, REAC, SFCP and the county EOCs. The ability to coordinate and address rumors will be demonstrated. A bank of phones will be operated during the exercise.

OBJECTIVE 14: IMPLEMENTATION OF PROTECTIVE ACTIONS - USE OF POTASSIUM IODIDE FOR EMERGENCY WORKERS, INSTITUTIONALIZED INDIVIDUALS, AND THE GENERAL PUBLIC

Demonstrate the capability and resources to implement potassium iodide (KI) protective actions for emergency workers, institutionalized individuals, and, if the State plan specifies, the general public.

The ability to implement KI recommendations to emergency workers will be demonstrated by the State of Illinois in accordance with the IPRA, Volume I and IPRA-Quad Cities. The State of Illinois does not provide KI to the general public.

OBJECTIVE 17: TRAFFIC AND ACCESS CONTROL

Demonstrate the organizational capability and resources necessary to control evacuation traffic flow and to control access to evacuated and sheltered areas.

This objective will be demonstrated by the State through coordination between the SFCP and the county EOCs in accordance with Quad Cities Station EPZ Traffic and Access Control procedures. The Illinois State Police (ISP) will man one traffic and access control post. The post for the demonstration will be selected by the ISP during the exercise based on exercise play. The staffing of the remaining State posts will be simulated during the exercise.

**OBJECTIVE 18: RECEPTION CENTER - MONITORING,
DECONTAMINATION AND REGISTRATION**

Demonstrate the adequacy of procedures, facilities, equipment, and personnel for the radiological monitoring, decontamination, and registration of evacuees.

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

This objective will also be demonstrated by IDNS at Morrison High School during the week of the exercise. Two portal monitors will be set up during the demonstration. The appropriate number of evacuees will be processed to meet the 20% in 12 hours requirement.

OBJECTIVE 19: CONGREGATE CARE

Demonstrate the adequacy of facilities, equipment, supplies, personnel, and procedures for congregate care of evacuees.

During the exercise, the capability to determine which congregate care centers should be activated will be demonstrated at the SFCP.

This objective will also be demonstrated at Morrison High School during the week of the exercise. Local organizations responsible for operating a reception and congregate care center will be present to demonstrate this objective.

**OBJECTIVE 22: EMERGENCY WORKERS, EQUIPMENT, AND VEHICLES
- MONITORING AND DECONTAMINATION**

Demonstrate the adequacy of procedures for the monitoring and decontamination of emergency workers, equipment, and vehicles.

During the exercise, the capability to determine which facilities will be used for monitoring and decontamination of emergency workers, equipment and vehicles will be demonstrated through coordination between the SFCP and REAC.

The ability to decontaminate emergency workers, equipment and vehicles will be fully demonstrated by IDNS RAFT personnel at Morrison High School during the week of the exercise.

OBJECTIVE 24: POST-EMERGENCY SAMPLING

Demonstrate the use of equipment and procedures for the collection and transportation of samples from areas that received deposition from the airborne plume.

This objective will be demonstrated by IDNS at RAFT. Samples appropriate to the area and season will be collected and transported to accordance with IDNS SOPs

OBJECTIVE 25: LABORATORY OPERATIONS

This objective will be demonstrated by the IDNS Mobile Laboratory at RAFT. Samples appropriate to the area, season and scenario will be provided to the lab, prepared and analyzed in accordance with IDNS SOPs.

ROCK ISLAND COUNTY OBJECTIVES:

OBJECTIVE 1: MOBILIZATION OF EMERGENCY PERSONNEL

Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations.

Rock Island County intends to fully activate the Emergency Operations Center (EOC) in Milan, Illinois. The County will implement notification procedures as defined in IPRA-Quad Cities. Representatives from IEMA, IDNS and ComEd will also staff the County EOC no earlier than the Alert classification.

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

OBJECTIVE 2: FACILITIES - EQUIPMENT, DISPLAYS, AND WORK ENVIRONMENT

Demonstrate the adequacy of facilities, equipment, displays, and other materials to support emergency operations.

This capability will be demonstrated in the Rock Island County EOC through the use of maps, status boards and other displays as appropriate.

OBJECTIVE 3: DIRECTION AND CONTROL

Demonstrate the capability to direct and control emergency operations.

Decision-making will be demonstrated at the State EOC and Rock Island County EOC. Coordination of decisions and emergency activities will be demonstrated between Rock Island County, the State EOC, SFCP and the JPIC, and between the County and the municipalities within the EPZ. Coordination between Rock Island and Whiteside counties will also be demonstrated.

OBJECTIVE 4: COMMUNICATIONS

Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field.

Rock Island County will use NARS, commercial telephone, radio and telefax to communicate with departments and agencies at other locations. Field personnel will be contacted by commercial telephone and radio.

OBJECTIVE 5: EMERGENCY WORKER EXPOSURE CONTROL

Demonstrate the ability to continuously monitor and control radiation exposure to emergency workers.

Rock Island 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 objective in the County EOC.

This objective will also be demonstrated during the traffic and access control demonstration. The Sheriff's Deputy will obtain dosimetry from the DCO at the County Sheriff's Department.

OBJECTIVE 9: PLUME PROTECTIVE ACTION DECISION MAKING

Demonstrate the capability to make timely and appropriate protective action decisions (PAD).

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

OBJECTIVE 10: ALERT AND NOTIFICATION

Demonstrate the capability to promptly alert and notify the public within the 10-mile plume pathway emergency planning zone (EPZ) and disseminate instructional messages to the public on the basis of decisions by appropriate State or local officials.

Rock Island 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 within 15 minutes of 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 Quad Cities Station EPZ Prompt Notification System as defined in IPRA-Quad Cities. 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 stations. The radio stations 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 Rock Island and Whiteside counties will be demonstrated.

OBJECTIVE 11: PUBLIC INSTRUCTIONS AND EMERGENCY INFORMATION

Demonstrate the capability to coordinate the formulation and dissemination of accurate information and instructions to the public.

Rock Island County will demonstrate this objective by using pre-scripted messages, as indicated in IPRA-Quad Cities. Contact with the radio station will be simulated for each alert and notification sequence following the initial sequence.

OBJECTIVE 12: EMERGENCY INFORMATION - MEDIA

Demonstrate the capability to coordinate the development and dissemination of clear, accurate, and timely information to the news media.

This capability will be demonstrated by Rock Island County through media briefings held at the Rock Island 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.

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

OBJECTIVE 13: EMERGENCY INFORMATION - RUMOR CONTROL

Demonstrate the capability to establish and operate rumor control in a coordinated and timely manner.

This objective will be demonstrated by Rock Island County through coordination between the EOC, SFCP and the JPIC. The Rock Island County EOC controller will inject exercise messages which will ensure the opportunity to demonstrate this objective. County officials will investigate and address the "rumors". If appropriate, the "rumors" will be coordinated with State officials in the County EOC and the JPIC. A "rumor trend" will be identified by the County EOC staff.

OBJECTIVE 14: IMPLEMENTATION OF PROTECTIVE ACTIONS - USE OF POTASSIUM IODIDE FOR EMERGENCY WORKERS, INSTITUTIONALIZED INDIVIDUALS, AND THE GENERAL PUBLIC

Demonstrate the capability and resources to implement potassium iodide (KI) protective actions for emergency workers, institutionalized individuals, and, if the State plan specifies, the general public.

If notified by the State of Illinois to distribute and administer KI, Rock Island 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.

KI will be available during the traffic and access control demonstration as part of the dosimetry packet.

OBJECTIVE 15: IMPLEMENTATION OF PROTECTIVE ACTIONS SPECIAL POPULATIONS

Demonstrate the capability and resources necessary to implement appropriate protective actions for special populations.

This objective will be demonstrated by Rock Island County through the simulated implementation of the appropriate SOPs. 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.

OBJECTIVE 16: IMPLEMENTATION OF PROTECTIVE ACTIONS - SCHOOLS

Demonstrate the capability and resources necessary to implement protective actions for school children within the plume pathway emergency planning zone (EPZ).

Rock Island County officials will demonstrate this capability through the simulated implementation of the appropriate SOPs in the County EOC. An EV-2 interview will not be conducted.

OBJECTIVE 17: TRAFFIC AND ACCESS CONTROL

Demonstrate the organizational capability and resources necessary to control evacuation traffic flow and to control access to evacuated and sheltered areas.

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

OBJECTIVE 29: RELOCATION, RE-ENTRY, AND RETURN – IMPLEMENTATION

Demonstrate the capability to implement relocation, re-entry, and return.

The Rock Island County EOC staff will demonstrate the objective through discussions within the Rock Island County EOC and with the State EOC, REAC, SFCP and the JPIC as necessary. The controller will provide break messages which will contain the pre-designated decisions regarding relocation, re-entry and return. The Rock Island County EOC staff will discuss the implementation of the decisions. The State will participate to the extent necessary to support Rock Island County.

OBJECTIVE 30: CONTINUOUS, 24-HOUR STAFFING

Demonstrate the capability to maintain staffing on a continuous, 24-hour basis through an actual shift change.

This objective will be demonstrated in the Rock Island County EOC through an actual shift change of two positions in order to correct an ARCA from the 1998 exercise. These positions are the ESDA Coordinator and the Regional Superintendent of Schools. Other County positions will not be demonstrating a shift change.

OBJECTIVE 31: OFFSITE SUPPORT FOR THE EVACUATION OF ONSITE PERSONNEL

Demonstrate the capability to provide offsite support for the evacuation of onsite personnel.

This objective will be demonstrated through the normal channel of coordination between Quad Cities Station security personnel and the Rock Island County Sheriff's

representative at the Rock Island County EOC. This activity may not be readily apparent in the County EOC. The point of contact for this objective is the ComEd liaison in the County EOC.

OBJECTIVE 32: UNANNOUNCED EXERCISE OR DRILL

Demonstrate the capability to carry out emergency response functions in an unannounced exercise or drill.

This objective will be demonstrated by Rock Island County during a drill conducted the week of the exercise. Evaluators will be positioned at the Rock Island County Sheriff's Communication Center and at the County EOC.

OBJECTIVE 33: OFF-HOURS EXERCISE OR DRILL

Demonstrate the capability to carry out emergency response functions during an off-hours exercise or drill.

This objective will be demonstrated by Rock Island County during a drill conducted the week of the exercise. Evaluators will be positioned at the Rock Island County Sheriff's Communication Center and at the County EOC.

WHITESIDE COUNTY OBJECTIVES:

OBJECTIVE 1: MOBILIZATION OF EMERGENCY PERSONNEL

Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations.

Whiteside County intends to fully activate the Emergency Operations Center (EOC) in Morrison, Illinois. The County will implement notification procedures as defined in IPRA-Quad Cities. Representatives from IEMA, IDNS and ComEd will also staff the County EOC no earlier than the Alert classification.

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

OBJECTIVE 2: FACILITIES - EQUIPMENT, DISPLAYS, AND WORK ENVIRONMENT

Demonstrate the adequacy of facilities, equipment, displays, and other materials to support emergency operations.

This capability will be demonstrated in the Whiteside County EOC through the use of maps, status board and other displays as appropriate.

OBJECTIVE 3: DIRECTION AND CONTROL

Demonstrate the capability to direct and control emergency operations.

Decision-making will be demonstrated at the State EOC and Whiteside County EOC. Coordination of decisions and emergency activities will be demonstrated between Whiteside County, the State EOC, SFCP and the JPIC, and between the County and Albany. Coordination between Whiteside County and Rock Island County will also be demonstrated.

OBJECTIVE 4: COMMUNICATIONS

Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field.

Whiteside County will use NARS, commercial telephone, radio and telefax to communicate with departments and agencies at other locations. Field personnel will be contacted by commercial telephone and radio.

OBJECTIVE 5: EMERGENCY WORKER EXPOSURE CONTROL

Demonstrate the ability to continuously monitor and control radiation exposure to emergency workers.

Whiteside 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 objective in the County EOC. This objective will also be demonstrated during the traffic and access control demonstration and the EV-2 interview. The Sheriff's Deputy will obtain dosimetry from the DCO in the County Sheriff's Office. The transportation manager/bus driver will bring a dosimetry packet to the EV-2 interview.

OBJECTIVE 9: PLUME PROTECTIVE ACTION DECISION MAKING

Demonstrate the capability to make timely and appropriate protective action decisions (PAD).

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

OBJECTIVE 10: ALERT AND NOTIFICATION

Demonstrate the capability to promptly alert and notify the public within the 10-mile plume pathway emergency planning zone (EPZ) and disseminate instructional messages to the public on the basis of decisions by appropriate State or local officials.

Whiteside 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 within 15 minutes of 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 Quad Cities Station EPZ Prompt Notification System as defined in IPRA-Quad Cities. 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 radio station 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 Whiteside and Rock Island counties will be demonstrated.

OBJECTIVE 11: PUBLIC INSTRUCTIONS AND EMERGENCY INFORMATION

Demonstrate the capability to coordinate the formulation and dissemination of accurate information and instructions to the public.

Whiteside County will demonstrate this objective by using pre-scripted messages as indicated in IPRA-Quad Cities. Contact with the radio station will be simulated for each alert and notification sequence following the initial sequence.

OBJECTIVE 12: EMERGENCY INFORMATION – MEDIA

Demonstrate the capability to coordinate the development and dissemination of clear, accurate, and timely information to the news media.

This capability will be demonstrated by Whiteside County through media briefings held at the Whiteside 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.

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

OBJECTIVE 13: EMERGENCY INFORMATION – RUMOR CONTROL

Demonstrate the capability to establish and operate rumor control in a coordinated and timely manner.

This objective will be demonstrated by Whiteside County through coordination between the County EOC and the JPIC. The Whiteside County EOC controller will inject exercise messages which will ensure the opportunity to demonstrate this objective. County officials will investigate and address the "rumors". If appropriate, the "rumors" will be coordinated between State and County officials in the County EOC and the JPIC. A "rumor trend" will be identified by the County EOC staff.

OBJECTIVE 14: IMPLEMENTATION OF PROTECTIVE ACTIONS - USE OF POTASSIUM IODIDE FOR EMERGENCY WORKERS, INSTITUTIONALIZED INDIVIDUALS, AND THE GENERAL PUBLIC

Demonstrate the capability and resources to implement potassium iodide (KI) protective actions for emergency workers, institutionalized individuals, and, if the State plan specifies, the general public.

If notified by the State of Illinois to distribute and administer KI, Whiteside 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.

KI will be available during the traffic and access control demonstration and at the EV-2 interview as part of the dosimetry packet.

OBJECTIVE 15: IMPLEMENTATION OF PROTECTIVE ACTIONS – SPECIAL POPULATIONS

Demonstrate the capability and resources necessary to implement appropriate protective actions for special populations.

This objective will be demonstrated by Whiteside 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.

OBJECTIVE 16: IMPLEMENTATION OF PROTECTIVE ACTIONS – SCHOOLS

Demonstrate the capability and resources necessary to implement protective actions for school children within the plume pathway emergency planning zone (EPZ). Whiteside County officials will demonstrate this capability through the simulated implementation of the appropriate procedure in the County EOC. An EV-2 interview will be conducted with Riverbend School District during the week of the exercise.

OBJECTIVE 17: TRAFFIC AND ACCESS CONTROL

Demonstrate the organizational capability and resources necessary to control evacuation traffic flow and to control access to evacuated and sheltered areas.

Coordination between Whiteside County agencies designated to provide traffic and access control will be exhibited in the Whiteside 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 Whiteside County during the exercise based on exercise play. The staffing of the remaining posts will be simulated.

OBJECTIVE 29: RELOCATION, RE-ENTRY, AND RETURN – IMPLEMENTATION

Demonstrate the capability to implement appropriate measures for relocation, re-entry, and return.

The Whiteside County EOC staff will demonstrate the objective through discussions within the Whiteside County EOC and with the State EOC, REAC, SFCP and the JPIC as necessary. The controller will provide break messages which will contain the pre-designated decisions regarding relocation, re-entry and return. The Whiteside County EOC staff will discuss the implementation of the decisions. The State will participate to the extent necessary to support Whiteside County.

OBJECTIVE 32: UNANNOUNCED EXERCISE OR DRILL

Demonstrate the capability to carry out emergency response functions in an unannounced exercise or drill.

This objective will be demonstrated by Whiteside County during a drill conducted the week of the exercise. An evaluator will be positioned at the Whiteside County Sheriff's Communication Center for the start of the drill and will relocate to the County EOC during the drill.

OBJECTIVE 33: OFF-HOURS EXERCISE OR DRILL

Demonstrate the capability to carry out emergency response functions during an off-hours exercise or drill.

This objective will be demonstrated by Whiteside County during a drill conducted the week of the exercise. An evaluator will be positioned at the Whiteside County Sheriff's Communication Center for the start of the drill and will relocate to the County EOC during the drill.

APPENDIX 4

EXERCISE SCENARIO

This appendix contains a summary of the simulated sequence of events -- Exercise Scenario -- which was used as the basis for invoking emergency response actions by OROs in the Quad Cities Nuclear Power Station exercise on July 12, 2000.

This exercise scenario was submitted by the State of Illinois and ComEd and approved by FEMA Region V on July 7, 2000.

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

SCENARIO SUMMARY

- 0800 Initial Conditions/Weather forecast message to players.
- 0800 An ALERT is declared at Quad Cities Station.
- 0815 ComEd notifies IEMA and IDNS dispatchers of the ALERT via NARS.
- IEMA Dispatcher verifies the NARS message.
- IDNS Dispatcher activates the IDNS response team.
- IDNS Duty Officer contacts the Quad Cities 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 Dispatcher notifies appropriate State agencies of the ALERT.
- IEMA notifies FEMA of the ALERT. (Simulated)
- 0830 IEMA Dispatcher 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.

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 Quad Cities Station.

0945 ComEd notifies IEMA and IDNS dispatchers of the SITE AREA EMERGENCY via NARS.

IEMA Dispatcher verifies the NARS message.

REAC contacts the Quad Cities Station Shift Engineer.

State EOC is activated if not previously activated.

IEMA notifies the 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
- Corrections
- 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.

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.

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

1125 A GENERAL EMERGENCY is declared at Quad Cities Station.

1140 ComEd notifies IEMA and IDNS dispatchers of the GENERAL EMERGENCY via NARS. Protective actions are recommended.

IEMA dispatcher 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)

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

REAC provides an update to the IDNS PIO.

1155 IEMA notifies the counties of the GENERAL EMERGENCY and the recommended protective actions via NARS.

County telecommunicators complete and verify the NARS message.

County telecommunicators notify County officials and municipalities per SOP.

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

Municipal dispatchers complete and verify the NARS message.

Municipal dispatchers notify EOC staff.

1400 The GENERAL EMERGENCY continues. A time jump is introduced. (Following the introduction of the time jump, Rock Island and Whiteside counties will continue exercise play using different return, re-entry and relocation scenarios. The counties will not interact after the time jump.)

Restricted return of the public is recommended. IEMA notifies Rock Island and Whiteside counties of the recommendation via controller message.

County EOC staff will discuss the recommendation. State facilities will support county activities.

Following completion of return and re-entry activities.

Relocation is recommended. IEMA notifies Rock Island and Whiteside counties of the recommendation via controller message.

County EOC staff will discuss the recommendation. State facilities will support county activities.

Following completion of relocation discussions.

State EOC terminates Exercise.

IEMA notifies offsite locations that the exercise is terminated.