



# **Final Exercise Report**

## **Byron Nuclear Generating Station**

Licensee: **Commonwealth Edison Company**

Exercise Date: **August 25, 1999**

Report Date: **October 21, 1999**

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

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## **I. EXECUTIVE SUMMARY**

On August 25, 1999, an exercise was conducted in the plume exposure pathway emergency planning zone (EPZ) around the Byron 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 most recent exercise at this site was conducted on April 16, 1997. The qualifying emergency preparedness exercise was conducted on November 15, 1983.

FEMA wishes to acknowledge the efforts of the many individuals who participated in this exercise. In the State of Illinois the risk county of Ogle 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 one Area Requiring Corrective Action (ARCA) 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 Byron Nuclear Generating Station to FEMA Region V by the State of Illinois and involved local jurisdictions occurred on March 28, 1984. Formal approval of these RERPs was granted by FEMA on September 12, 1984, under 44 CFR 350.

A REP exercise was conducted on August 25, 1999, 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 Byron 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-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) descriptions of the ARCA 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 August 25, 1999, exercise to test the offsite emergency response capabilities in the area surrounding the Byron Nuclear Generating 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 Byron Nuclear Generating Station is located near the City of Byron, in Ogle County, Illinois. The 10-mile plume EPZ extends radially in all directions around the station and impacts Ogle County, a small portion of Winnebago County and the municipalities of Byron, Davis Junction, Leaf River, Mount Morris, Oregon, and Stillman Valley.

The population distribution in the 10-mile EPZ surrounding the station is relatively low. There is a requirement to delineate areas to be sheltered or evacuated by easily recognizable boundaries; some of the boundaries extend beyond the circular EPZ. The 11 Sub-areas identified for the Byron Nuclear Generating Station have a total population (per a 1992 Ogle County census) of 24,588.

Primary land use around the Byron Nuclear Generating Station is agricultural, with cash crops of corn and soybeans.

Recreational facilities outside the municipalities include Lowden Memorial State Park, Lowden-Miller State Forest, and the Castle Rock State Park and Nature Preserve.

Various forms of transportation serve the area. Illinois Route 72 passes within three and one-half miles to the north of the Byron Station, Illinois Route 2, two and one-half miles west of the station, and Illinois Route 64, four and one-half miles south of the station. The Iowa & Missouri (I & M) Rail Link's railway is four and one-half miles north of the station, and the Burlington Northern and Santa Fe Railway Company's railway is five and one-half miles south of the station.

#### **B. Exercise Participants**

The following agencies, organizations, and units of government participated in the Byron Nuclear Generating Station exercise on August 25, 1999.

## **STATE OF ILLINOIS**

Illinois Department of Natural Resources (IDNR)  
Illinois Department of Nuclear Safety (IDNS)  
Illinois Department of Transportation (IDOT)  
Illinois Emergency Management Agency (IEMA)  
Illinois State Police (ISP)

## **RISK JURISDICTIONS**

### **OGLE COUNTY**

Ogle County Executive (Board Chairman/Alternate)  
Ogle County Emergency Services and Disaster Agency  
Ogle County Sheriff's Department  
Ogle County Highway Department  
Ogle County Health Department  
Lee/Ogle Regional Superintendent of Education  
Ogle County Coroner  
Winnebago County Sheriff's Office  
Meridian School District  
Byron Fire Department  
Oregon Police Department  
Mt. Morris Police Department  
Stillman Valley Police Department  
Village of Davis Junction

## **PRIVATE/VOLUNTEER ORGANIZATIONS**

American Red Cross  
Commonwealth Edison Company  
Radio Station WRHL

**C. Exercise Timeline**

Table 1, on the following page, presents the time at which key events and activities occurred during the Byron Nuclear Generating Station exercise held on August 25, 1999. Also included are times notifications were made to the participating jurisdictions/functional entities.

**TABLE 1. Exercise Timeline**

DATE AND SITE: August 25, 1999, Byron Nuclear Generating Station

Emergency Classification Level or Event	Time Utility Declared	Time That Notification Was Received or Action Was Taken					
		State of Illinois EOC	REAC	State Forward Command Post	Ogle County EOC	JPIC	EOF
Unusual Event	0730	0742	0742	0807	0816	N/A	0730
Alert	0807	0815	0815	0832	0839	N/A	0814
Site Area Emergency	0935	0946	0947	0947	1007	1004	0935
General Emergency	1125	1133	1132	1148	1148	1125	1125
Radiation Release Started		1135	1128	1148	1148	1152	1121
Radiation Release Terminated:		N/A	N/A	N/A	N/A	N/A	N/A
Facility Declared Operational		0848	0852	0845	0920	1040	0827
Declaration State of Emergency		1130	1130	1132	1130	1130	1130
Exercise Terminated		1310	1300	1310	1310	1305	1305
1st Early Precautionary Action Decision - Put dairy animals in shelter and on stored feed and water out to a 2-mile radius of the Byron Nuclear Generating Station		1005	0950	1006	1005	N/A	N/A
First Siren Activation		1005	N/A	1008	1008	N/A	N/A
First EBS Activation		1010	N/A	1010	1010	N/A	N/A
2nd Early Precautionary Action Decision: Evacuate: Subareas 19, 20, and 23		1125	1111	1126	1126	1128	1130
Second Siren Activation		1127	N/A	1128	1128	1128	N/A
Second EBS Activation:		1129	N/A	1129	1137	1129	N/A
Shelter:		N/A	N/A	N/A	N/A	N/A	N/A
1st Protective Action Decision: KI to EW		1146	1137	1148	1148	1157	1155
2nd Protective Action Decision; place dairy animals on stored feed and water to 10 miles Evacuate: Subareas 12, 14, 17, 19, 20, 23		1224	1213	1224	1224	1224	N/A
3rd Siren Activation		1224	1213	1224	1224	1224	N/A
3rd EBS Activation		1226	N/A	1226	1231	1226	N/A

## 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 August 25, 1999, exercise to test the offsite emergency response capabilities of State and local governments in the 10-mile EPZ surrounding the Byron Nuclear Generating Station.

Each jurisdiction and functional entity was evaluated on the basis of its demonstration of criteria contained in exercise objectives delineated in FEMA-REP-14, REP Exercise Manual, September 1991. Detailed information on the exercise objectives and the extent-of-play agreement for this exercise is found in Appendix 3 of this report.

### A. Summary Results of Exercise Evaluation

The matrix presented in Table 2, on the following page, presents the status of all exercise objectives from FEMA-REP-14 which were scheduled for demonstration during this exercise at 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)



## 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 were assessed during this exercise. Included is a description of each Deficiency and recommended corrective actions.
- **Areas Requiring Corrective Action** - 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** - Description of ARCAs assessed during previous exercises which were resolved in this exercise and the corrective actions demonstrated.
- **Prior ARCAs - Unresolved** - Description of ARCAs assessed during prior exercises which were not resolved in this exercise. Included is the reason the ARCAs remain 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 ARCAs 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:**

**Issue No.:** 09-97-11-A-01

**Description:** Radio Station WRHL is the designated primary station for public notification in the event of a radiological incident at the Byron Nuclear Generating Station. However, this radio station is not identified in the Byron Emergency Information Booklet.

**Corrective Action Demonstrated:** During this exercise the Public Information Brochure (PIB) for Byron was reviewed and found to contain information about four radio stations. The radio stations are WZOK-FM, WRHL-FM, WROK-AM and WROK-FM.

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

## 1.2 Radiological Emergency Assessment Center

- a. **MET:** Objectives 1, 2, 3, 4, 7, 9 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

## 1.3 Emergency Operations Facility

- a. **MET:** Objectives 1, 2, 3, 4, 7 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 Joint Public Information Center**

- a. **MET:** Objectives 2, 3, 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

#### **1.5 Reception Center**

- 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

#### **1.6 Emergency Worker Monitoring and Decontamination**

- a. **MET:** Objectives 4, 5, 14 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**

### **1.7 Congregate Care**

- a. **MET: Objectives 2, 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 State Forward Command Post**

- a. **MET: Objectives 2, 3, 4, 9 and 10**
- 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 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. RISK JURISDICTIONS**

### **2.1 OGLE COUNTY**

#### **2.1.1 County Emergency Operations Center**

- a. **MET: Objectives 1, 2, 3, 4, 9, 10, 12, 13 and 15**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: Objective 11**

**Issue No.:** 09-99-11-A-01

**Description:** The Illinois Department of Transportation (IDOT) identified a traffic impediment on the primary evacuation route, State Route #2. An alternative evacuation route, State Route 72, was recommended by IDOT. However, although both the primary and alternative evacuation routes were described in EAS Message #3, the second shift EOC staff was not aware of the alternative evacuation route.

**Recommendation:** Accurate information on designated evacuation routes should be included in all EAS messages to avoid public confusion. This information should be briefed to the second shift EOC staff, posted on the status board and annotated in the Events Log.

**Schedule of Corrective Actions:** In the future, all pertinent information will be briefed to the second shift EOC staff and posted in the appropriate locations. Accurate information on evacuation routes will be included in the emergency broadcast messages. This will be demonstrated during the 2001 Byron exercise.

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

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

### **2.1.2 Initial Notification Point**

- a. **MET: Objectives 1 and 4**
- 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: NONE**
- f. **PRIOR ARCAs - UNRESOLVED: NONE**

### **2.1.4 Traffic and Access Control**

- a. **MET: Objectives 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 WRHL AM/FM**

- a. **MET: Objectives 4 and 11**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs - RESOLVED: NONE**
- f. **PRIOR ARCAs – UNRESOLVED: NONE**

### **2.1.6 Meridian School District**

- a. **MET: Objectives 4, 5, 14 and 16**
- 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
ANL	Argonne National Laboratory
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 Byron Nuclear Generating Station exercise on August 25, 1999. Evaluator Team Leaders are indicated by the letters "(TL)" after their names. The organization that each evaluator represents is indicated by the following abbreviations:

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

<u>RAC CHAIR/EXERCISE DIRECTOR</u>	<u>NAME</u>	<u>ORGANIZATION</u>
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RAC Chair/Exercise Director	Woodie J. Curtis	FEMA
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<u>EVALUATION SITE</u>	<u>EVALUATOR</u>	<u>ORGANIZATION</u>
------------------------	------------------	---------------------

#### STATE OF ILLINOIS

Emergency Operations Center	R. Smith (TL)	ANL
Emergency Operations Center	B. Pfaff	FEMA
Emergency Operations Center	G. Naskrent	FEMA
Radiological Emergency Assessment Center/Monitoring, Registration and Decontamination of Evacuees/ Emergency Worker Mon. & Decon.	R. Lowden	SSI
State Forward Command Post	W. Lueders	ANL
Emergency Operations Facility	K. Flynn	ANL
Joint Public Information Center/ Congregate Care	T. Connors-Murphy	FEMA
Traffic and Access Control	A. Birman	FEMA

#### OGLE COUNTY

Emergency Operations Center/ Initial Notification Point	C. Lloyd (TL)	FEMA
Emergency Operations Center	S.A. Curtis	ANL
Emergency Operations Center	C. Crackel	FEMA
EBS (WRHL AM/FM)/Meridian School District EV-2	J. Flynn	ANL
Traffic and Access Control	L. Poch	ANL

## APPENDIX 3

### EXERCISE OBJECTIVES AND EXTENT-OF-PLAY AGREEMENT

This appendix lists the exercise objectives which were scheduled for demonstration in the Byron Nuclear Generating Station exercise on August 25, 1999, and the extent-of-play agreement approved by FEMA Region V on August 4, 1999.

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 7: PLUME DOSE PROJECTION**

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

**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 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.

## **B. Extent-of-Play Agreement**

The extent-of-play agreement on the following pages was submitted by the State of Illinois, and was approved by FEMA Region V on August 4, 1999, in preparation for the Byron Nuclear Generating Station exercise on August 25, 1999. 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**

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.

The State Emergency Operations Center (EOC) will be partially activated with IEMA and IDNS personnel. The IEMA Dispatcher will implement notification procedures for notifications of IEMA staff as defined in IEMA SOPs. State agency liaisons may be contacted but will not report to the State EOC.

The State Forward Command Post will be activated in Hillcrest with State district and regional personnel. IEMA personnel will be pre-positioned in the Byron Station area and dispatched to the Ogle County EOC, Forward Command Post, the JPIC and the EOF.

The IDNS Dispatcher will simulate notification procedures in accordance with IDNS SOPs. REAC will be fully activated. IDNS personnel will be pre-positioned in the Byron Station vicinity for response to the Ogle County EOC, Forward Command Post, the JPIC and the EOF.

The pre-positioned State staff will begin exercise play at the following facilities no earlier than the ECL indicated below:

FCP	Alert
JPIC	Site Area Emergency
EOF	Site Area Emergency
TSC	Alert
County EOC	Alert

#### **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 and the JPIC. Coordination will be demonstrated between the State EOC, REAC, the Forward Command Post, the JPIC, the EOF and the Ogle County EOC.

**OBJECTIVE 4: COMMUNICATIONS**

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

IEEMA will use a variety of communication systems [Nuclear Accident Reporting System (NARS), telefax, commercial telephone, and 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. The Illinois State Police will bring dosimetry packets to the SFCP from their district headquarters.

Leak test and calibration records for dosimetry used by IDNS personnel will be available for inspection during the exercise at the REAC.

**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 and the EOF.

**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 recommendations to Ogle County and monitoring the instructional messages provided to the public by Ogle County. This monitoring will be accomplished by the Forward Command Post through the IEMA representative in the Ogle County EOC.

**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 recommendations to Ogle County. The State will also monitor the instructional messages provided to the public by Ogle County. This monitoring will be accomplished by the Forward Command Post through the IEMA representative in the Ogle County EOC.

**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, Forward Command Post, REAC and the Ogle County EOC. IEMA and IDNS will be present at the JPIC to coordinate with Commonwealth Edison Company.

**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, Forward Command Post and the Ogle County EOC. A bank of phones will not be operated during the exercise. Rumor control messages will be introduced in the Ogle County EOC by the Controller. 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.

**OBJECTIVE 14: IMPLEMENTATION OF PROTECTIVE ACTIONS - USE OF KI 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 1, and IPRA-Byron.

KI will be available at the traffic and access control demonstration as part of the dosimetry packets.

**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 Forward Command Post and the Ogle County EOC, in accordance with the Byron Station EPZ Traffic and Access Control Procedures. The Illinois State Police (ISP) will staff one traffic and access control post during the exercise. The staffing of the post will be out of sequence with the exercise scenario. 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 State Forward Command Post and REAC.

An interview of State and local officials and inspection of Jefferson High School in Rockford will be conducted during the week of the exercise. Evacuees will not be processed. Monitoring equipment will not be available at the interview/inspection.

**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 State Forward Command Post.

An interview of local officials and inspection of Jefferson High School in Rockford will be conducted during the week of the exercise. Local organizations responsible for operating a congregate care center will be present. Evacuees will not be processed. Equipment will not be available at the interview/inspection.

**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 State Forward Command Post and REAC.

An interview of State and local officials and inspection of Jefferson High School in Rockford will be conducted during the week of the exercise. Emergency workers and equipment will not be processed. Monitoring equipment will not be available at the interview/inspection.

**OGLE 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.

Ogle County intends to fully activate the Emergency Operations Center (EOC) in Rochelle, Illinois. The County will implement notification procedures as defined in IPRA-Byron. Representatives from the EPZ municipalities, the Winnebago County Sheriff's Department, IEMA, IDNS, ISP 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 Ogle 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 Ogle County EOC. Coordination of decisions and emergency activities will be demonstrated between Ogle County, the State EOC, Forward Command Post and the JPIC, and between the County and the municipalities within the EPZ.

**OBJECTIVE 4: COMMUNICATIONS**

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

Ogle 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.

Ogle County will demonstrate this objective by close coordination with IDNS and timely dissemination and exchange of information within the County Dosimetry Control Officer (DCO) network. Exercise messages will be injected which will ensure the opportunity to demonstrate this objective in the County EOC. Leak test and calibration records will be

available for inspection during the exercise. The County DCO will have the records for the EOC dosimetry.

This objective will also be demonstrated during the EV-2 interview and traffic and access control demonstration. The transportation manager/bus driver will bring a dosimetry packet to the EV-2 interview. Leak test and calibration records will be available for inspection at the EV-2 interview. The Ogle County Sheriff's Deputy will obtain dosimetry packets from the DCO in the County EOC.

**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 Ogle County officials in the County EOC. The Ogle 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.

Ogle 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 Byron Station EPZ Prompt Notification System as defined in IPRA-Byron. 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 (WRHL) 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.

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

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

Ogle County will demonstrate this objective by using pre-scripted messages, as indicated in IPRA-Byron. 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 Ogle County through media briefings held at the County media briefing location near the County EOC. If real media are not present for the briefings, the controller and observers will 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 Ogle County through coordination between the County EOC and the JPIC. The Ogle 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.

**OBJECTIVE 14: IMPLEMENTATION OF PROTECTIVE ACTIONS – USE OF KI 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, Ogle 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 at the EV-2 interview and the traffic and access control demonstration as part of the dosimetry packets.

**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 Ogle 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 Ogle 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).

An EV-2 interview will be conducted with the Meridian School District during the week of the exercise but out of sequence. The interview will be held in the Meridian School District Office in Stillman Valley. The following School District personnel will be present at the interview: the District Superintendent, a principal, a teacher and the transportation manager and/or a bus driver. The date and time of the interview will be provided as soon as they are available.

**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 agencies designated to provide traffic and access control will be exhibited in the Ogle County EOC. An Ogle County Sheriff's Deputy will be available to demonstrate the staffing of one traffic and access control post during the exercise. The post will be staffed out of sequence with the exercise scenario. The post for the demonstration will be selected by Ogle County during the exercise based on exercise play. The staffing of the remaining posts will be simulated during the exercise.

**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 Ogle County EOC through an actual shift change of key positions. These positions are: the County Board Chairman, ESDA Coordinator, Sheriff, Highway Engineer, Ogle-Lee County Superintendent of Educational Services and Health Officer. Positions not demonstrating a shift change will be the

administrative support staff, and the liaisons from the municipalities, Winnebago County, IEMA, IDNS, ISP and ComEd.

**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 Byron Station security personnel and the Ogle County Sheriff's Communications Center. 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.

## 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 Byron Nuclear Generating Station exercise on August 25, 1999.

This exercise scenario was submitted by the State of Illinois and Commonwealth Edison Company and approved by FEMA Région V on August 4, 1999.

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:

- 0700 Initial conditions/weather forecast message to players.
- 0715 An UNUSUAL EVENT is declared at Byron Station.
- 0730 ComEd notifies IEMA and IDNS dispatchers of the UNUSUAL EVENT via NARS.
- IEMA Dispatcher verifies the NARS message.
- IDNS Duty Officer contacts the Byron Station Shift Engineer.
- IEMA Dispatcher notifies IEMA personnel of the UNUSUAL EVENT per SOP.
- 0745 IEMA Dispatcher notifies Ogle County of the UNUSUAL EVENT per SOP.
- County telecommunicators complete and verify the NARS message.
- County telecommunicators notify county officials and municipalities of the UNUSUAL EVENT per SOP.
- 0800 An ALERT is declared at Byron 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 Byron Station Shift Engineer.

IEMA Dispatcher notifies IEMA personnel of the ALERT per SOP.

IEMA may dispatch liaisons to the County EOC, Forward Command Post, EOF and JPIC, 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 Ogle County of the ALERT via NARS.

Ogle County telecommunicator completes and verifies the NARS message.

County telecommunicator notifies County officials and municipalities of the ALERT per SOP.

County may activate the EOC, if appropriate.

Municipal telecommunicators complete and verify the NARS message.

Municipal telecommunicators notify officials of the ALERT per SOP.

0930 A SITE AREA EMERGENCY is declared at Byron Station.

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

IEMA Dispatcher verifies the NARS message.

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

IEMA notifies FEMA of conditions. (Simulated)

IEMA notifies State agencies: (simulated)

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

IDNS contacts Federal and State support agencies. (Simulated)

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

REAC provides an update to the IDNS PIO.

1000 IEMA notifies Ogle County of the SITE AREA EMERGENCY via NARS.

Ogle County telecommunicator completes and verifies the NARS message.

County telecommunicator notifies County officials and municipalities of the SITE AREA EMERGENCY per SOP.

County EOC is activated if not previously activated.

County implements public notification procedures, if applicable. (Simulated)

Municipal telecommunicators complete and verify the NARS message.

Municipal telecommunicators notify officials per SOP.

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

1130 A GENERAL EMERGENCY is declared at Byron Station.

1145

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 liaison, EOF liaison 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 Liaison.

REAC provides an update to the IDNS PIO.

1200

IEMA notifies Ogle County of the GENERAL EMERGENCY and the recommended protective actions via NARS.

Ogle County telecommunicator completes and verifies the NARS message.

County telecommunicator notifies County officials and municipalities per SOP.

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

Municipal telecommunicators complete and verify the NARS message.

Municipal telecommunicators notify EOC staff.

1300

Offsite exercise is terminated.