



Final Exercise Report

Clinton Power Station

Licensee: **AmerGen**

Exercise Date: **August 28-29, 2001**

Report Date: **December 18, 2001**

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

TABLE OF CONTENTS

	Page
I. EXECUTIVE SUMMARY	1
II. INTRODUCTION.....	2
III. EXERCISE OVERVIEW	4
A. Plume Emergency Planning Zone Description	4
B. Ingestion Emergency Planning Zone Description.....	4
C. Exercise Participants.....	4
D. Exercise Timeline	6
IV. EXERCISE EVALUATION AND RESULTS.....	8
A. Summary Results of Exercise Evaluation	8
B. Status of Jurisdictions Evaluated	10
1. STATE OF ILLINOIS.....	12
1.1 State Emergency Operations Center	12
1.2 Tabletop – Second Day	12
1.3 Radiological Emergency Assessment Center.....	12
1.4 State Forward Command Post	13
1.5 Traffic and Access Control	13
1.6 Emergency Operations Facility.....	13
1.7 Joint Public Information Center.....	14
1.8 Evacuee Monitoring, Decontamination and Registration	15
1.9 Congregate Care.....	15
1.10 Emergency Worker/Equipment/Vehicle Monitoring/Decon	16
1.11 RAFT Command Center.....	16
1.12 Mobile Laboratory	16
1.13 Radiological Assessment Field Teams	16
1.14 DeWitt County EOC Liaison	16
2. RISK JURISDICTIONS	17
2.1 DEWITT COUNTY.....	17

DEWITT COUNTY (Continued)

2.1.1 County Emergency Operations Center.....17
2.1.2 Initial Notification Point18
2.1.3 EBS Radio Station WJBC/WBNQ/WBWN AM/FM.....18

3. SUPPORT JURISDICTIONS.....18

3.1 MACON COUNTY18

3.1.1 County Emergency Operations Center.....18
3.1.2 Traffic and Access Control19

3.2 MCLEAN COUNTY19

3.2.1 County Emergency Operations Center.....19
3.2.2 Traffic and Access Control20

3.3 PIATT COUNTY.....20

3.3.1 County Emergency Operations Center.....20
3.3.2 Traffic and Access Control21

List of Appendices

APPENDIX 1 - ACRONYMS AND ABBREVIATIONS22

APPENDIX 2 - EXERCISE EVALUATORS AND TEAM LEADERS24

APPENDIX 3 - EXERCISE OBJECTIVES AND
EXTENT-OF-PLAY AGREEMENT26

APPENDIX 4 - EXERCISE SCENARIO.....45

List of Tables

Table 1 - Exercise Timeline.....7

Table 2 - Summary Results of Exercise Evaluation9

I. EXECUTIVE SUMMARY

On August 28-29, 2001, an exercise was conducted in both the plume and ingestion exposure pathway emergency planning zones (EPZs) around the Clinton 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 (RERPs) and procedures.

The most recent exercise at this site was conducted on April 26, 2000. The qualifying emergency preparedness exercise was conducted on January 13, 1987.

FEMA wishes to acknowledge the efforts of the many individuals who participated in this exercise. In the State of Illinois the risk county of DeWitt, and support counties of McLean, Macon and Piatt, participated along with the State Government. FEMA also wishes to acknowledge the efforts of the following Federal agencies who participated in the Ingestion Pathway Exercise Tabletop Discussion on August 29, 2001: U.S. Department of Agriculture, U.S. Department of Energy (DOE Nevada and DOE Argonne), U.S. Department of Health and Human Services (Food and Drug Administration and Public Health Service), U.S. Department of Transportation (Federal Highway Administration), U.S. Environmental Protection Agency and U.S. Nuclear Regulatory Commission.

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

This report contains the final evaluation of the biennial exercise and the evaluation of the following out-of-sequence activities: Monitoring, Decontamination and Registration of Evacuees; Congregate Care Center; and Monitoring and Decontamination of Emergency Workers, Equipment and Vehicles.

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. Two of the ARCAs for Objectives 3 and 12, respectively, both assigned to the State of Illinois, were corrected at the Byron Generating Station biennial radiological emergency preparedness exercise on November 28, 2001. The remaining ARCA for Objective 5, assigned to Macon County, is scheduled for a corrective action demonstration at the 2003 Clinton biennial exercise. One prior ARCA for Objective 14, assigned to McLean County, was corrected during 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 Clinton Power Station to FEMA Region V by the State of Illinois and involved local jurisdictions occurred on November 25, 1986. Formal approval of these RERPs was granted by FEMA on August 3, 1987, under 44 CFR 350.

A REP exercise was conducted on August 28-29, 2001 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 Clinton 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) descriptions of the ARCAs assessed during this exercise, recommended corrective action, and the State and local governments' schedule of corrective actions for each identified exercise issue and (2) descriptions of unresolved ARCAs assessed during previous exercises and the status of the OROs' efforts to resolve them.

III. EXERCISE OVERVIEW

Contained in this section are data and basic information relevant to the August 28-29, 2001, exercise to test the offsite emergency response capabilities in the area surrounding the Clinton 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 Clinton Power Station is located approximately seven miles northeast of the City of Clinton in Harp Township, within DeWitt County, Illinois. DeWitt County is located near the geographical center of the State of Illinois. The topography of the area is predominantly rolling prairies.

The 10-mile EPZ contains a total population of 12,780 (2000 census) within the risk county of DeWitt and the three support counties of Macon, McLean and Piatt. Nearly two-thirds of the total EPZ population (8,576) resides in the communities of Clinton, Weldon, Wapella and DeWitt. The land use within the EPZ is predominantly agricultural, with the closest industries located in the City of Clinton. Two State recreation facilities are located within the EPZ: Clinton Lake State Recreation Area and Weldon Springs State Park.

State Highways 10, 48 and 54 intersect the plant location. Another major thoroughfare is U.S. Highway 51, located about six miles west of the plant. The nearest railroad is the Illinois Central Gulf (ICG) Railroad, which has a track crossing the site in an east/west direction and is within three-fourths of a mile to the north of the reactor centerline. Another ICG track is located 3.5 miles south of the station.

B. Ingestion Emergency Planning Zone Description

The ingestion exposure pathway emergency planning zone consists of a circle extending 50 miles outward with the Clinton Power Station as the center point. The 50-mile EPZ includes the Illinois Counties of Champaign, Christian, Coles, DeWitt, Douglas, Ford, Iroquois, Livingston, Logan, McLean, Macon, Mason, Menard, Moultrie, Piatt, Sangamon, Shelby, Tazewell, Vermillion, and Woodford.

C. Exercise Participants

The following agencies, organizations, and units of government participated in the Clinton Power Station exercise on August 28-29, 2001.

STATE OF ILLINOIS

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 Public Health (IDPH)
Illinois Department of Transportation-Aeronautics (IDOT-A)
Illinois Department of Transportation-Highways (IDOT-H)
Illinois Emergency Management Agency (IEMA)
Illinois Environmental Protection Agency (IEPA)
Illinois National Guard (ING)
Illinois State Police (ISP)
Office of the State Fire Marshal (OSFM)

RISK JURISDICTIONS

DEWITT COUNTY

DeWitt County Executive (Board Chairman/Alternate)
DeWitt County Emergency Services and Disaster Agency (ESDA)
DeWitt County Sheriff's Department

MACON COUNTY

Macon County Board Chairman
Macon County ESDA
Macon County Sheriff's Department
Macon County Health Department
Macon County Highway Department
Macon County Coroner
Logan County ESDA
City of Decatur Public Information Office
Decatur Fire Department
Decatur Municipal Services Department/Public Works Division
Decatur Police Department

MCLEAN COUNTY

McLean County Board/Administrator
McLean County ESDA
McLean County Sheriff's Department
Bloomington Fire Department
Bloomington Police Department
Normal Fire Department

MCLEAN COUNTY (continued)

Normal Police Department

PIATT COUNTY

Piatt County ESDA
Piatt County Sheriff's Department
Piatt County Highway Department
Monticello Police Department

PRIVATE/VOLUNTEER ORGANIZATIONS

AmerGen
American Nuclear Insurers (Ingestion Phase)
American Red Cross
Archer-Daniels-Midland Corporation (Ingestion Phase)
Kirby Hospital Ambulance Service
Radio Station WJBC/WBNQ/WBWN AM/FM
St. Mary's Hospital

D. Exercise Timeline

Table 1, on the following page, presents the time at which key events and activities occurred during the Clinton Power Station exercise held on August 28-29, 2001. Also included are times notifications were made to the participating jurisdictions/functional entities.

TABLE 1. Exercise Timeline

DATE AND SITE: August 28, 2001, Clinton Power Station

Emergency Classification Level or Event	Time Utility Declared	Time That Notification Was Received or Action Was Taken						
		Illinois State EOC	State Forward Command Post	DeWitt County EOC	Macon County EOC	McLean County EOC	Piatt County EOC	Joint Public Information Cntr
Unusual Event	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alert	0817	0832	0848	0901	0909	0915	0917	N/A
Site Area Emergency	0912	0919	0945	0944	0951	0955	0957	1000
General Emergency	1025	1039	1100	1058	1117	1107	1103	1050
SIM Radiation Release Started	1025	1039	1100	1058	1117	1107	1103	1050
Sim Radiation Release Terminated:	N/A	1230*	1250	1348	1355	1400	1352	
Facility Declared Operational		0904	0915	1020	1010	0923	0955	1000
Declaration State of Emergency		1105/1142**	1050	1237	1240	1234	1235	1123
Exercise Terminated		1355	1401	1357	1330	1400	1340	1405
1st Early Precautionary Action Decision: Confine milk-producing animals on stored feed and protected water out to 10-mile radius		0944	0950	0946	0951	0955	0957	1030
First Siren Activation		N/A	N/A	0947	N/A	N/A	N/A	N/A
First EBS Activation		N/A	N/A	0950	N/A	N/A	N/A	N/A
1st Protective Action Decision: Evacuate sub-areas 1,2,3 Shelter sub-areas 4,5,6,7,8 Recommend Potassium Iodide for Emergency Workers and retain milk-producing animals on stored feed and protected water out to 10 miles		1111	1112	1112	1111	1123	1115	1115
2nd Siren Activation		N/A	N/A	1113	N/A	N/A	N/A	N/A
2nd EBS Activation		N/A	N/A	1115	N/A	N/A	N/A	N/A
KI Administration Decision: Administer KI to Emergency Workers		1045	1045	1112	1111	1111	1114	N/A

* Controller Injected - Release Termination Message

** Dewitt County Governor Declaration - 1105 hours

**Support County's Including : Champaign Co., Macon Co., McLean Co., Piatt Co., and Dewitt Co. Governor Declaration - 1142 hours

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 28-29, 2001, exercise to test the offsite emergency response capabilities of State and local governments in the 10-mile plume pathway and 50-mile ingestion pathway EPZs surrounding the Clinton 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 Exercise Evaluation

DATE AND SITE: August 28-29, 2001, Clinton 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	A	M	M				M	M	M	M		M									M														
Tabletop - Second Day		M	M	M					M			M											M														
Radiological Emergency Assessment Center	M	M	M	M	M		M		M					M				M				M	M				M	M									
State Forward Command Post	M	M	M	M	M					M	M			M				M	M	M		M															
Traffic and Access Control				M	M									M				M																			
Emergency Operations Facility			M				M																														
Joint Public Information Center	M	M	M	M								A																									
Evacuee Mon, Decon and Registration				M	M									M																							
Congregate Care				M																																	
Emergency Worker/Equip/Veh Mon/Decon				M	M									M																							
RAFT Command Center		M	M	M	M									M																							
Mobile Laboratory		M		M	M	M		M						M											M												
Radiological Assessment Field Teams				M	M	M		M						M													M										
DeWitt County EOC Liaison											M	M	M					M																			
RISK JURISDICTIONS																																					
DEWITT COUNTY																																					
County Emergency Operations Center	M	M	M	M	M				M	M	M																										
Initial Notification Point	M			M																																	
EBS Radio Station											M																										
MACON COUNTY																																					
County Emergency Operations Center	M	M	M	M																																	
Traffic and Access Control			M	M	A									M				M																			
MCLEAN COUNTY																																					
County Emergency Operations Center	M	M	M	M																																	
Traffic and Access Control			M	M	M									M				M																			
PIATT COUNTY																																					
County Emergency Operations Center	M	M	M	M																																	
Traffic and Access Control			M	M	M									M				M																			

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 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, 4, 5, 9, 10, 11, 12, 14, 23, 28, and 29
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION:** Objective 3

Issue No.: 13-01-03-A-01

Description: In several instances, information recorded and provided to the counties on State NARS forms was incorrect and/or incomplete. (NUREG-0654: E.5)

Corrective Action Demonstrated: During the Byron Generating Station REP exercise on November 28, 2001, appropriate information was properly recorded on the NARS message forms. The information provided to Ogle County in State NARS messages accurately reflected the plant status information provided by the utility, as well as State protective actions.

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

1.2 Tabletop – Second Day

- a. **MET:** Objectives 2, 3, 4, 9, 26, and 27
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION:** NONE
- d. **NOT DEMONSTRATED:** NONE
- e. **PRIOR ARCAs – RESOLVED:** NONE
- f. **PRIOR ARCAs – UNRESOLVED:** NONE

1.3 Radiological Emergency Assessment Center

- a. MET: Objectives 1, 2, 3, 4, 5, 7, 9, 14, 18, 22, 23, and 28
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION: NONE
- d. NOT DEMONSTRATED: NONE
- e. PRIOR ARCAs - RESOLVED: NONE
- f. PRIOR ARCAs - UNRESOLVED: NONE

1.4 State Forward Command Post

- a. MET: Objectives 1, 2, 3, 4, 5, 10, 11, 14, 17, 18, 19, 22, and 29
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION: NONE
- d. NOT DEMONSTRATED: NONE
- e. PRIOR ARCAs - RESOLVED: NONE
- f. PRIOR ARCAs - UNRESOLVED: NONE

1.5 Traffic and Access Control

- a. MET: 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

1.6 Emergency Operations Facility

- a. MET: Objectives 3 and 7

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

1.7 Joint Public Information Center

- a. MET: Objectives 1, 2, 3, and 4
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION: Objective 12

Issue No.: 13-01-12-A-02

Description: The Joint Public Information Center (JPIC) staff preparing the press releases has access to copies of Emergency Broadcast System (EBS) messages, however, a number of items addressed in the EBS messages were not discussed or expanded upon. These items included:

- Precautionary: EBS Message #1, milk-producing animals within 10 miles of the Clinton Power Station should be confined and placed on stored feed and protected water.
- Special Populations: EBS Message #2, bedridden individuals are to call the DeWitt County Health Department at (217) 935-3427 for special arrangements to evacuate; individuals who are in need of transportation are to proceed to one of two locations: the city park for the Village of DeWitt or the fire station for Weldon.

During the press briefing, the JPIC staff did not provide the media with the following:

- A phone number where the media can call for information.
- A phone number for individuals who have special concerns related to their ability to follow protective action decisions.
- Pre-selected, approved assembly locations identified for individuals who may need transportation for evacuation, and a public inquiry phone number as requested by the media.
- A press release was not issued for the General ECL.

Corrective Action Demonstrated: During the Byron Generating Station REP exercise on November 28, 2001, timely and pertinent information was

disseminated to the media through briefings and press releases. The JPIC staff ensured that information provided in EBS messages was addressed in the media briefings.

Hardcopy messages of the state press release concerning the agriculture advisory were available for the media to review. Special populations, if needing assistance, were advised to call their local agencies or 911. A Public Inquiry hotline (800-247-5010) was established by IEMA in Springfield, Illinois at 1100 hours. This number was furnished to the media in the media briefings. Press releases and Emergency Broadcast Station messages were distributed at appropriate times throughout the exercise.

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

1.8 Evacuee Monitoring, Decontamination and Registration

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

1.9 Congregate Care

- a. **MET: Objectives 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**

1.10 Emergency Worker/Equipment/Vehicle Monitoring/Decon

- 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**

1.11 RAFT Command Center

- a. **MET: Objectives 2, 3, 4, 5, 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 Mobile Laboratory

- a. **MET: Objectives 2, 4, 5, 6, 8, 14, 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**

1.13 Radiological Assessment Field Teams

- 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

1.14 DeWitt County EOC Liaison

- a. MET: Objectives 10, 11, 12, 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 DEWITT COUNTY

2.1.1 County Emergency Operations Center

- a. MET: Objectives 1, 2, 3, 4, 5, 9, 10, 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**

2.1.2 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 EBS Radio Station WJBC/WBNQ/WBWN 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**

3.0 SUPPORT JURISDICTIONS

3.1 MACON COUNTY

3.1.1 County Emergency Operations Center

- a. **MET: Objectives 1, 2, 3, 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**

3.1.2 **Traffic and Access Control**

- a. **MET: Objective 3, 4, 14, and 17**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: Objective 5**

Issue No: 13-01-05-A-03

Description: The emergency worker did not accurately complete the required paperwork. The Radiation Exposure record was completed with the correct exposure date. Start and ending daily dose(s) were completed using departure and return times. However, the total dose to date was not annotated. The emergency worker did not know the frequency at which his Direct Reading Dosimeter was to be read.

Recommendation: Macon County should ensure emergency workers are adequately trained in the completion of required paperwork, and fully understand individual responsibilities relative to personal radiation exposure.

Schedule of Corrective Actions: Macon County and the State of Illinois will ensure that emergency workers are adequately trained in dosimetry control procedures. This ARCA will be corrected during the 2003 Clinton exercise.

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

3.2 **MCLEAN COUNTY**

3.2.1 **County Emergency Operations Center**

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

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

Issue: 13-00-14-A-01

Description: At 1200 hours, the Radiological Defense (RADEF) Officer at McLean County failed to advise the Deputy Sheriff assigned to traffic and access control point (TACP) #2-6 of the need to ingest potassium iodide (KI). The State's recommendation for emergency workers in the 10-mile EPZ to ingest KI had been communicated to the EOC by the Illinois Emergency Management Agency (IEMA) at 1041 hours. The RADEF Officer stated that he thought the assigned TACP (#2-6) was outside the 10-mile EPZ. However, it was later determined that the TACP was within the 10-mile EPZ and that the deputy was exposed to the radioactive plume traveling northward (from a wind direction of 185 degrees) from the nuclear plant. (NUREG-0654: J.10.e and f.)

Corrective Action Demonstrated: The Assistant Director of the McLean County Emergency Services and Disaster Agency (ESDA) received a phone call from the Illinois Emergency Management Agency (IEMA) at 1128 hours, recommending emergency workers within the 10-mile EPZ to take KI. The recommendation to administer KI was communicated to the Sheriff's Deputy at 1130 hours. The Deputy acknowledged that she had received the message, and stated that she would take one dose of KI and record it in the dosage log.

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

3.2.2 **Traffic and Access Control**

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

3.3 **PIATT COUNTY**

3.3.1 **County Emergency Operations Center**

- a. MET: Objectives 1, 2, 3, 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

3.3.2 Traffic and Access Control

- a. MET: Objectives 3, 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

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
ANL	Argonne National Laboratory
ARC	American Red Cross
ARCA	Area Requiring Corrective Action
CAP	Civil Air Patrol
CD V	Civil Defense – Category V
CFR	Code of Federal Regulations
CPM	Counts Per Minute
DOE	U.S. Department of Energy
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
ESDA	Emergency Services and Disaster Agency
GE	General Emergency
ICC	Illinois Commerce Commission
IDA	Illinois Department of Agriculture
IDHS	Illinois Department of Human Services
IDMA	Illinois Department of Military Affairs
IDNR	Illinois Department of Natural Resources
IDNS	Illinois Department of Nuclear Safety
IDOT	Illinois Department of Transportation
IDPH	Illinois Department of Public Health
IEMA	Illinois Emergency Management Agency
IEPA	Illinois Environmental Protection Agency
IPRA	Illinois Plan for Radiological Accidents
IREACH	Illinois Radio Emergency Aid Channel
ISP	Illinois State Police

JIC	Joint Information Center
JPIC	Joint Public Information Center
KI	Potassium Iodide
mR	milliroentgen
mR/h	milliroentgen per hour
NARS	Nuclear Accident Reporting System
NRC	U.S. Nuclear Regulatory Commission
NUREG-0654	NUREG-0654/FEMA-REP-1, Rev. 1, <i>"Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980</i>
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
PNS	Prompt Notification System
R	Roentgen
RAC	Regional Assistance Committee
RACES	Radio Amateur Civil Emergency Service
RAFT	Radiological Assessment Field Team
RDO	Radiological Defense Officer
REA	Radioactive Emergency Area
REAC	Radiological Emergency Assessment Center
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
SFCP	State Forward Command Post
SOP	Standard Operating Procedure
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 Clinton Power Station exercise on August 28-29, 2001. Evaluator Team Leaders are indicated by the letters "(TL)" after their names. The organization which each evaluator represents is indicated by the following abbreviations:

DOT/FHA	- U.S. Department of Transportation/Federal Highway Administration
FEMA	- Federal Emergency Management Agency
ICF	- ICF Consulting
USDA	- U.S. Department of Agriculture

<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 and Second Day Tabletop	C. Crackel (TL)	FEMA
	E. Penner	USDA
Radiological Emergency Assessment Center	R. Smith	ICF
	J. Austin	ICF
Emergency Operations Facility	R. Grundstrom	ICF
	H. Harrison	ICF
State Forward Command Post - Traffic and Access Control	T. Connors-Murphy	FEMA
	D. Blunt	ICF
Joint Public Information Center	P. Tenorio	FEMA
Evacuee/Emergency Worker Monitoring and Decontamination	H. Harrison	ICF
	R. Smith	ICF
Congregate Care	D. Blunt	ICF
	R. Grundstrom	ICF
Radiological Assessment Field Teams/ Command Center/Mobile Lab	H. Harrison	ICF
	C. Richey	ICF

DEWITT COUNTY

Emergency Operations Center	C. Sturghill (TL)	FEMA
	G. Naskrent	FEMA
EBS Radio Station WBNQ/WBWN/WJBC	C. Richey	ICF

<u>EVALUATION SITE</u>	<u>EVALUATOR</u>	<u>ORGANIZATION</u>
MACON COUNTY		
Emergency Operations Center	C. Lloyd (TL)	FEMA
Traffic and Access Control Point	M. Schuler	ICF
MCLEAN COUNTY		
Emergency Operations Center	J. McSpaden (TL)	DOT/FHA
Traffic and Access Control Point	J. Roberson	ICF
PIATT COUNTY		
Emergency Operations Center	A. Birman (TL)	FEMA
Traffic and Access Control Point	J. Hickey	ICF

APPENDIX 3

EXERCISE OBJECTIVES AND EXTENT-OF-PLAY AGREEMENT

This appendix lists the exercise objectives which were scheduled for demonstration in the Clinton Power Station exercise on August 28-29, 2001, 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 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 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 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 20: MEDICAL SERVICES - TRANSPORTATION

Demonstrate the adequacy of vehicles, equipment, procedures, and personnel for transporting contaminated, injured, or exposed individuals.

OBJECTIVE 21: MEDICAL SERVICES - FACILITIES

Demonstrate the adequacy of the equipment, procedures, supplies, and personnel of medical facilities responsible for treatment of contaminated, injured, or exposed individuals.

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 23: SUPPLEMENTARY ASSISTANCE (FEDERAL/OTHER)

Demonstrate the capability to identify the need for external assistance and to request such assistance from Federal or other support organizations.

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 26: INGESTION EXPOSURE PATHWAY – DOSE PROJECTION AND PROTECTIVE ACTION DECISION MAKING

Demonstrate the capability to project dose to the public for the ingestion pathway and to recommend protective measures.

OBJECTIVE 27: INGESTION EXPOSURE PATHWAY – PROTECTIVE ACTION IMPLEMENTATION

Demonstrate the capability to implement protective actions for ingestion exposure pathway.

OBJECTIVE 28: RELOCATION, RE-ENTRY, AND RETURN – DECISION MAKING

Demonstrate the capability to develop decisions on relocation, re-entry, and return.

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

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

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 Clinton Power Station exercise on August 28-29, 2001. 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 for the plume phase of the exercise. The IEMA Emergency Response Telecommunicator (ERT) will implement procedures for notification of IEMA staff as defined in IEMA SOPs. IEMA and IDNS representatives will be contacted and will report to the State EOC.

The State Forward Command Post (SFCP) will be activated at the Bloomington National Guard Armory with State district and regional personnel. IEMA personnel will be pre-positioned in the Clinton Station area and dispatched to the DeWitt County EOC, SFCP, the EOF and the JPIC.

The IDNS Telecommunicators will implement notification procedures in accordance with IDNS SOPs. REAC will be fully activated. RAFT activities will be activated in Maroa on Day 2 for ingestion activities only. IDNS personnel will be pre-positioned in the Clinton Station vicinity for response to the DeWitt County EOC, SFCP, RAFT, the EOF, TSC and the JPIC.

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

SFCP	Alert
JPIC	Alert
EOF	Site Area Emergency
TSC	Alert
DeWitt 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 SFCP and the JPIC. Coordination will be demonstrated between the State EOC, REAC, the SFCP, the JPIC, the EOF and the DeWitt County EOC.

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. 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 on Day 2 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 Response Cell 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.

There will be no field team activities during the plume phase on Day 1. However, IDNS will demonstrate obtaining air samples where required or appropriate during the RAFT ingestion pathway sampling and monitoring demonstration on Day 2. 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 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 DeWitt County and monitoring the instructional messages provided to the public by DeWitt County. This monitoring will be accomplished by the SFCP through the IEMA representative in the DeWitt 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 recommendation (PAR) to DeWitt County. The State will also monitor the instructional messages provided to the public by DeWitt County. This monitoring will be accomplished by the SFCP through the IEMA representatives in the DeWitt 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 on Day 1 at the JPIC in coordination with the State EOC, REAC, SFCP and the DeWitt County EOC. IEMA and IDNS personnel will be present at the JPIC to coordinate with AmerGen. Media briefings will be conducted at the JPIC.

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-Clinton. 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 DeWitt County EOC, in accordance with traffic and access control procedures. The Illinois State Police (ISP) will staff one traffic and access control post during the exercise. The post for the demonstration will be selected by the ISP during the exercise based on exercise play. The staffing of the remaining State posts will be simulated.

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.

An interview of State and local officials and inspection of Stephen Decatur Middle School in Decatur will be conducted August 27 at 10:00 a.m. Local organizations responsible for operating a congregate care center will be present. 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 SFCP.

An interview of local officials and inspection of Stephen Decatur Middle School in Decatur will be conducted August 27 at 10:00 a.m. 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 20: MEDICAL SERVICES – TRANSPORTATION

Demonstrate the adequacy of vehicles, equipment, procedures, and personnel for transporting contaminated, injured, or exposed individuals.

A medical drill will be conducted in the Clinton Station area. The drill is scheduled for October 9 at 9:30 a.m.

OBJECTIVE 21: MEDICAL SERVICES – FACILITIES

Demonstrate the adequacy of the equipment, procedures, supplies, and personnel of medical facilities responsible for treatment of contaminated, injured, or exposed individuals.

A medical drill will be conducted in the Clinton Station area. The drill is scheduled for October 9 at 9:30 a.m.

**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/RAFT.

An interview of State and local officials and inspection of Stephen Decatur Middle School in Decatur will be conducted August 27 at 10:00 a.m. Emergency workers and equipment will not be processed. Monitoring equipment will not be available at the interview/inspection.

OBJECTIVE 23: SUPPLEMENTARY ASSISTANCE (FEDERAL/OTHER)

Demonstrate the capability to identify the need for external assistance and to request such assistance from Federal or other support organizations.

This objective will be demonstrated in the State EOC through coordination with FEMA, and in REAC through IDNS coordination with DOE, NRC and other participating Federal agencies. The State EOC will actually make a call to the FEMA Duty Officer. REAC will actually make calls to DOE, the NRC and the RAP Team at ANL.

During ingestion pathway activities, coordination will also be demonstrated between State and Federal officials.

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 on Day 2. Samples appropriate to the area and season will be collected and transported in accordance with IDNS SOPs.

OBJECTIVE 25: LABORATORY OPERATIONS

Demonstrate laboratory operations and procedures for measuring and analyzing samples.

This objective will be demonstrated by the IDNS Mobile Laboratory at RAFT on Day 2. Samples appropriate to the area, season and scenario will be provided to the lab, prepared and analyzed in accordance with IDNS SOPs.

**OBJECTIVE 26: INGESTION EXPOSURE PATHWAY – DOSE
PROJECTION AND PROTECTIVE ACTION DECISION
MAKING**

Demonstrate the capability to project dose to the public for the ingestion pathway and to recommend protective measures.

The ability to project doses will be demonstrated on Day 2 during the post-emergency tabletop discussion. Field measurements simulated to come from RAFT will be supplied to the decision makers for purposes of this objective. The ability to determine the appropriate protective measures will be demonstrated during the tabletop discussion.

OBJECTIVE 27: INGESTION EXPOSURE PATHWAY – PROTECTIVE ACTION IMPLEMENTATION

Demonstrate the capability to implement protective actions for ingestion exposure pathway.

This objective will be demonstrated on Day 2 during the post-emergency tabletop discussion. Implementation of protective actions will be discussed with State and Federal agencies having appropriate jurisdiction.

OBJECTIVE 28: RELOCATION, RE-ENTRY, AND RETURN – DECISION MAKING

Demonstrate the capability to develop decisions on relocation, re-entry, and return.

The capability to develop preliminary decisions on relocation, re-entry and return will be demonstrated in REAC on Day 1.

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

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

The ability to implement appropriate measures for relocation, re-entry and return will be demonstrated on Day 1 through coordination between the State EOC and the SFCP.

DEWITT 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.

DeWitt County intends to partially activate the Emergency Operations Center (EOC) in Clinton, Illinois. The County will implement notification procedures as defined in IPRA-Clinton. The following DeWitt County officials will staff the County EOC: Board Chairman, ESDA Coordinator and the Sheriff. Representatives from IEMA, IDNS and Clinton Power Station will participate but will not be pre-positioned in the County EOC.

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 DeWitt 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 DeWitt County EOC. Coordination of decisions and emergency activities will be demonstrated between DeWitt County, the State EOC, SFCP and the JPIC, and between the County and the municipalities within the EPZ.

Coordination between DeWitt County and the support counties will also be demonstrated.

OBJECTIVE 4: COMMUNICATIONS

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

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

OBJECTIVE 5: EMERGENCY WORKER EXPOSURE CONTROL

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

The demonstration of this objective will be accomplished through briefings in the DeWitt 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 DeWitt County officials in the County EOC. The DeWitt 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.

DeWitt 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 Clinton Station EPZ Siren Warning System as defined in IPRA-Clinton. The Siren Warning 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.

OBJECTIVE 11: PUBLIC INSTRUCTIONS AND EMERGENCY INFORMATION

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

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

MACON 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.

Macon County intends to activate the EOC in Decatur to the appropriate level. The County will implement notification procedures as defined in IPRA-Clinton. The EOC

will be staffed with representatives from the County Board, ESDA and the Sheriff's Department. If the scenario does not drive protective actions in Macon County, the County may decide to down-staff the EOC to minimum staffing.

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 Macon 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.

Coordination of decisions and emergency activities will be demonstrated between Macon County and DeWitt County.

OBJECTIVE 4: COMMUNICATIONS

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

Macon County will use 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.

Macon County will have equipment available for distribution to emergency workers who may be entering an exposure pathway.

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

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, Macon County officials will discuss the issuance of KI to emergency workers and immobile populations, as a voluntary measure.

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

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 Macon County and DeWitt County will be demonstrated. A Macon County deputy will be available during the exercise to demonstrate the staffing of one post. The post for the demonstration will be selected by Macon County during the exercise based on exercise play if the scenario causes Macon County to staff posts. If it does not, the post will be selected by the evaluator. The staffing of the remaining posts will be simulated.

MCLEAN 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.

McLean County intends to activate the EOC in Bloomington to the appropriate level. The County will implement notification procedures as defined in IPRA-Clinton. The EOC will be staffed with representatives from the County Administrator's Office, ESDA and the Sheriff's Department. If the scenario does not drive protective actions in McLean County, the County may decide to down-staff the to minimum staffing.

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 McLean 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.

Coordination of decisions and emergency activities will be demonstrated between McLean County and DeWitt County.

OBJECTIVE 4: COMMUNICATIONS

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

McLean County will use 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.

McLean County will have equipment available for distribution to emergency workers who may be entering an exposure pathway.

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

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, McLean County officials will discuss the issuance of KI to emergency workers and immobile populations, as a voluntary measure.

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

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 McLean County and DeWitt County will be demonstrated. A McLean County deputy will be available during the exercise to demonstrate the staffing of one post. The post for the demonstration will be selected by McLean County during the exercise based on the exercise play if the scenario causes McLean County to staff posts. If it does not, the post will be selected by the evaluator. The staffing of the remaining posts will be simulated.

PIATT 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.

Piatt County intends to activate the EOC in Monticello to the appropriate level. The County will implement notification procedures as defined in IPRA-Clinton. The EOC will be staffed with representatives from the County Board, ESDA and the Sheriff's Department. If the scenario does not drive protective actions in Piatt County, the County may decide to down-staff the EOC to minimum staffing.

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 Piatt 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.

Coordination of decisions and emergency activities will be demonstrated between Piatt County and DeWitt County.

OBJECTIVE 4: COMMUNICATIONS

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

Piatt County will use 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.

Piatt County will have equipment available for distribution to emergency workers who may be entering an exposure pathway.

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

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, Piatt County officials will discuss the issuance of KI to emergency workers and immobile populations, as a voluntary measure.

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

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 Piatt County and DeWitt County will be demonstrated. A Piatt County deputy will be available during the exercise to demonstrate the staffing of one post. The post for the demonstration will be selected by Piatt County during the exercise

based on exercise play if the scenario causes Piatt County to staff posts. If it does not, the post will be selected by the evaluator. The staffing of the remaining posts will be simulated.

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 Clinton Power Station exercise on August 28-29, 2001.

This exercise scenario was submitted by the State of Illinois and AmerGen and approved by FEMA Region V on August 24, 2001.

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

August 28, 2001 – Exercise Day 1

- 0745 Initial conditions/weather forecast message to players
- 0800 An ALERT is declared at the Clinton Station.
- 0815 Clinton Station notifies IEMA and IDNS telecommunicators of the ALERT via NARS.
 - IEMA Telecommunicator verifies the NARS message.
 - IDNS Telecommunicator activates the IDNS response team.
 - IDNS Duty Officer contacts the Clinton Station Shift Engineer.
 - IEMA Telecommunicator notifies IEMA personnel of the ALERT per SOP.
 - IEMA may dispatch liaisons to the County EOC, Forward Command Post, JPIC and EOF, if appropriate.
 - IEMA notifies Governor's Office of the ALERT. (Simulated)
 - IEMA may activate the State EOC, if appropriate.
 - IEMA Telecommunicator notifies appropriate State agencies of the ALERT.
 - IEMA notifies FEMA of the ALERT. (Simulated)

- 0830 IEMA Telecommunicator notifies DeWitt County of the ALERT via NARS.
DeWitt County telecommunicator completes and verifies the NARS message.
DeWitt County telecommunicator notifies County officials, support counties and municipalities of the ALERT per SOP.
DeWitt County may activate the EOC, if appropriate.
Support county and municipal telecommunicators complete and verify the NARS message.
Support county and municipal telecommunicators notify officials of the ALERT per SOP.
- 0915 A SITE AREA EMERGENCY is declared at Clinton Station.
- 0930 Clinton Station notifies IEMA and IDNS telecommunicators of the SITE AREA EMERGENCY via NARS.
IEMA Telecommunicator verifies the NARS message.
REAC contacts the Clinton 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 DeWitt County EOC, 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/Division of Aeronautics
 - IDNR
 - Illinois National Guard
 - ICC
 - American Red Cross
 - IDPH
 - IEPA

- Corrections
- Office of the State Fire Marshal
- 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.

0945 IEMA notifies DeWitt County of the SITE AREA EMERGENCY via NARS.

DeWitt County telecommunicator completes and verifies the NARS message.

DeWitt County telecommunicator notifies County officials, support counties and municipalities of the SITE AREA EMERGENCY per SOP.

DeWitt County EOC is activated if not previously activated.

DeWitt County implements public notification procedures, if appropriate.
(Simulated)

Support counties and municipal telecommunicators complete and verify the NARS message.

Support counties and Municipal telecommunicators notify officials per SOP.

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

1015 A GENERAL EMERGENCY is declared at Clinton Station.

1030 Clinton Station notifies IEMA and IDNS telecommunicators of the GENERAL EMERGENCY via NARS. Protective actions are recommended.

IEMA Telecommunicator verifies the NARS message.

The State EOC and REAC evaluate the protective action recommendation.

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

State EOC staff is advised of the situation.

IEMA advises State Forward Command Post, the DeWitt County EOC liaison, JPIC staff and EOF liaison 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 DeWitt County EOC Liaison.

REAC provides an update to the IDNS PIO.

1045 IEMA notifies DeWitt County of the GENERAL EMERGENCY and the recommended protective actions via NARS.

DeWitt County telecommunicator completes and verifies the NARS message.

DeWitt County telecommunicator notifies County officials, support counties and municipalities per SOP.

DeWitt County implements public notification procedures and traffic and access control per SOPs, as applicable.

Support county and municipal telecommunicators complete and verify the NARS message.

Support county and municipal telecommunicators notify EOC staff.

1200 The GENERAL EMERGENCY continues. The counties will terminate exercise play. The State EOC, REAC and the SFCP will continue exercise play to demonstrate return, re-entry and relocation implementation.

1330 State EOC officials meet with the DOE Advance Team to discuss the FRMAC location and functional operations.

REAC and RAFT environmental analysts meet with the DOE Advance Team to develop the monitoring and sampling strategy.

1630 Day 1 activities are terminated.

August 29, 2001 – Exercise Day 2

0900 The following activities will occur simultaneously but on different timeline:

- State and federal agency decision makers will address ingestion pathway concerns through a post-emergency tabletop discussion in Springfield.
- Integrated federal and state field teams will demonstrate environmental monitoring and sampling strategies from the RAFT Staging Area in Maroa.
- Mobile lab will analyze pre-packed samples.

1300 Terminate post-emergency tabletop discussion.

1500 – 1600 Terminate field activities.