



# Federal Emergency Management Agency

Region V

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

September 6, 2001

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

Dear Mr. Dyer:

Enclosed is one copy of the Final Report for the May 22-23, 2001, Radiological Emergency Preparedness (REP) Ingestion Pathway Exercise for the Davis-Besse Nuclear Power Station. This Report was also transmitted to the NRC, Washington, D. C., the FEMA National Office, the State of Ohio, Ottawa and Lucas Counties.

There were no deficiencies identified during this exercise. There was one Area Requiring Corrective Action (ARCA) identified for the State of Ohio. A detailed discussion of the unresolved issues can be found in part four of the final report.

Based on the results of the May 22-23, 2001 exercise, the radiological emergency response plans and preparedness for the State of Ohio, Ottawa and Lucas Counties, site-specific to the Davis-Besse Nuclear Power Station, can be implemented. These plans are adequate to provide reasonable assurance that appropriate measures can be taken offsite to protect the health and safety of the public in the event of a radiological emergency at the site.

Therefore, Title 44 CFR, Part 350, approval of the offsite radiological emergency response plans and preparedness for the State of Ohio, Ottawa and Lucas Counties, site-specific to the Davis Besse Nuclear Power Station, granted on May 24, 1989, remains in effect.

If you should have any questions please call or have a member of your staff contact Terri Connors-Murphy at (312) 408-5595.

Sincerely,

A handwritten signature in cursive script, reading "Janet M. Odesloo", is written over the typed name.

Janet M. Odesloo  
Acting Regional Director

SEP 12 2001



**FINAL EXERCISE REPORT**

**Davis-Besse Nuclear Power Station**

**Licensee: First Energy**

**Exercise Date: May 22-23, 2001**

**Report Date: September 6, 2001**

**FEDERAL EMERGENCY MANAGEMENT AGENCY**

**REGION V**

**536 S. Clark St., 6<sup>th</sup> Floor**

**Chicago, Illinois 60605-1521**

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## **I. EXECUTIVE SUMMARY**

On May 22-23, 2001, an exercise was conducted in the plume and ingestion pathway emergency-planning zone (EPZ) around the Davis-Besse Nuclear Power Station by the Federal Emergency Management Agency (FEMA) Region V. The purpose of the exercise was to assess the level of State and local preparedness in responding to a radiological emergency. This exercise was held in accordance with FEMA's policies and guidance concerning the exercise of State and local radiological emergency response plans and procedures.

The most recent exercise at this site was conducted on May 4, 1999. The qualifying emergency preparedness exercise was conducted on July 16, 1985 and August 8-9, 1989.

FEMA wishes to acknowledge the efforts of the many individuals who participated in this exercise. In the State of Ohio, the risk counties of Ottawa and Lucas and 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 draft 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 Areas Requiring Corrective Action (ARCA) identified as a result of this exercise. The Area Requiring Corrective Action was assessed against the State of Ohio under Objective 26, Ingestion Exposure Pathway-Dose Projection and Protective Action Decision Making, - State personnel did not follow procedures for the Ingestion Pathway as defined in the Ingestion Zone Recovery/Reentry Advisory Group (IZRRAG) Standard Operations Procedures.

## 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 government 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 observation and 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 Davis-Besse Nuclear Power Station to FEMA Region V by the State of Ohio and involved local jurisdictions occurred on January 23, 1986. Formal approval of the RERP was granted by FEMA on June 15, 1987, under 44 CFR 350.

A REP exercise was conducted on May 22-23, 2001, by FEMA Region V to assess the capabilities of State and local emergency preparedness organizations in implementing their RERPs and procedures to protect the public health and safety during a radiological emergency involving the Davis-Besse Nuclear Power Station. The purpose of this exercise report is to present the exercise results and findings on the performance of the offsite response organizations (ORO) during a simulated radiological emergency.

The findings presented in this report are based on the evaluations of the Federal evaluator team, with final determinations made by the FEMA Region V RAC Chairperson, and approved by the Regional Director.

The criteria utilized in the FEMA evaluation process are contained in

- NUREG-0654/FEMA-REP-1, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980;
- FEMA-REP-14, "Radiological Emergency Preparedness Exercise Manual," September 1991; and
- FEMA-REP-15, "Radiological Emergency Preparedness Exercise Evaluation Methodology," September 1991.

Section III of this report, entitled "Exercise Overview," presents basic information and data relevant to the exercise. This section of the report contains a description of the plume pathway, EPZ, a listing of all participating jurisdictions and functional entities, which were evaluated, and a tabular presentation of the time of actual occurrence of key exercise events and activities.

Section IV of this report, entitled "Exercise Evaluation and Results," presents detailed information on the demonstration of applicable exercise objectives at each jurisdiction or functional entity evaluated in a jurisdiction-based, issues-only format. This section also contains: (1) descriptions of all ARCAs assessed during this exercise, recommended corrective actions, and the State and local governments' schedule of corrective actions for each identified exercise issue and (2) descriptions of resolved ARCAs assessed during previous exercises and the status of the OROs' efforts to resolve them.

### **III EXERCISE OVERVIEW**

Contained in this section are data and basic information relevant to the May 22 & 23, 2001 exercise to test the offsite emergency response capabilities in the area surrounding the Davis-Besse Nuclear Power Station. This section of the exercise report includes a description of the plume and Ingestion pathway EPZs, a listing of all participating jurisdictions and functional entities, which were evaluated, and a tabular presentation of the time of the actual occurrence of key exercise events and activities.

#### **A. Plume EPZ Description**

The Davis - Besse Nuclear Power Station is located in Northwestern Ohio, within Ottawa County, near Oak Harbor, which is approximately 25 miles east of Toledo. The facility is located on 954 acres fronting on Lake Erie: 582 acres of the site, consisting of dike marsh areas, are leased to the US Bureau of Sport Fisheries and Wildlife, forming the Navarre unit of the Ottawa National Wildlife Refuge.

The 10-mile radius of the plume Emergency Planning Zone (EPZ) of the Davis -Besse Nuclear Power Station predominates Ottawa County. The 1990 permanent population of the county is approximately 20,218. The land use within the 10-mile EPZ is isolated rural communities, summer resorts that offer camping facilities and beach swimming.

The fifty mile radius of the ingestion Emergency Planning Zone (EPZ) includes a portion of Canada and Lake Erie, portions of four (4) counties in Michigan, all of Ottawa, Lucas, Wood, Sandusky, Erie and Seneca counties in Ohio, and portions of Fulton, Henry, Hancock, Wyandot, Crawford, Richland, Huron and Lorain counties in Ohio. The Ohio 1990 census indicates that approximately 1.3 million people are within the Ohio portion of the 50-mile EPZ.

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

The following agencies, organizations, and units of government participated in the Davis - Besse Nuclear Power Station exercise on May 22-23, 2001.

#### **STATE OF OHIO**

- Ohio Emergency Management Agency (OEMA)
- Ohio Department of Health (ODH)
- Ohio Department of Mental Health
- Ohio Environmental Protection Agency (OEPA)
- Ohio Department of Agriculture (ODA)
- Ohio Department of Public Safety/State Highway Patrol (OSHP)
- Ohio Department of Transportation (ODOT)



Ohio National Guard (ONG)  
Ohio Department of Natural Resources (ODNR)  
Ohio Department of Insurance  
Ohio Department of Job and Family Services  
Ohio State University Extension  
Public Utilities Commission of Ohio  
State and Local Government Commission  
Attorney General's Office  
Governor's Office

## **RISK JURISDICTIONS**

### **OTTAWA COUNTY**

Emergency Management Agency (EMA)  
Ottawa County Commissioners  
Ottawa County Sheriff's Department  
Ottawa County Engineer  
Ottawa County Health Department  
United States Coast Guard  
Port Clinton Police Department  
Benton-Carroll-Salem Schools  
Genoa Area Schools  
Carroll Township Fire and EMS Department  
Portage Fire District  
Port Clinton Fire and EMS Department  
Riverview Nursing Home  
Mid-County Emergency Medical Services  
Harris-Elmore Fire and EMS Department

### **LUCAS COUNTY**

Emergency Management Agency (EMA)  
Lucas County Commissioners  
Lucas County Engineer  
Lucas County Sheriff's Department  
Jerusalem Township Volunteer Fire Department  
Oregon Fire Department  
Oregon School District  
Oregon Police Department  
Jerusalem Township Trustee  
St. Charles Hospital  
Health Department  
Ohio State University Extension

Lucas County Emergency Medical Services  
Freemont Memorial Hospital  
Mid-County Emergency Medical Service  
**PRIVATE/VOLUNTEER ORGANIZATIONS**

American Red Cross  
Salvation Army  
Amateur Radio Emergency Service

### **C. Exercise Timeline**

Table 1, on the following page, presents the time at which key events and activities occurred during the DBNPS exercise held on May 22 & 23, 2001.

**Table 1. Exercise Timeline**

DATE AND SITE:      May 22, 2001                      Davis Besse Nuclear Power Plant

Emergency Classification Level or Event	Time Utility Declared	State of Ohio EOC	Ottawa County EOC	Lucas County EOC	JPIC			
Unusual Event	N/A	N/A	N/A	N/A	N/A			
Alert	0840	0857	0857	0858	0903			
Site Area Emergency	1011	1021	1019	1018	1011			
General Emergency	1220	1235	1236	1238	1220			
Radiation Release Started	1215	1215	1225	1220	1220			
Radiation Release Terminated	1402	1415	1433	1430	1432			
Facility Declared Operational		1100	0943	0953	0955			
Declaration State of Emergency		1120	1120	1120	1120			
Exercise Terminated		1432	1435	1435	1444			
Early Precautionary Action Decision: 1. Relocate school children 2. Restrict boating traffic 3. Close parks 4. Livestock advisory		1032	1032	1032				
1st Siren Activation:		1035	1035	1035				
1 <sup>st</sup> EAS/EBS Message:		1038	1038	1038				
1st Protective Action Recommendation: Evacuate Subareas 1, 2, 3, 10, 11, and 12		1253	1253	1253				
2nd Siren Activation:		1256	1256	1256				
2nd EAS/EBS Message:		1259	1259	1259				
KI Administration Decision:								
Emergency Workers:								
Institutionalized Persons:		1251	1251	1251				

**LEGEND:**      D - Decision Making Jurisdiction

A - Activating Jurisdiction

N/A - Not Applicable

Blank - Not Reported

## IV. EXERCISE EVALUATION AND RESULTS

Contained in this section are the results and findings of the evaluation of all jurisdictions and functional entities that participated in the May 22-23, 2001, exercise to test the offsite emergency response capabilities of State and local governments in the 10-mile EPZ surrounding the Davis-Besse Nuclear Power Station.

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

### A. Summary Results of Exercise Evaluation - Table 2

The matrix presented in Table 2, on the following page(s), presents the status of all exercise objectives from FEMA-REP-14 that 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 ARCA(s) 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**

**Site and Date:** Davis-Besse Nuclear Power Station Ingestion Exercise May 22-23, 2001

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
<b>STATE OF OHIO</b>																																	
State Emergency Operations Center	M	M	M	M						M	M	M	M																				
Initial Notifacation Point	M			M																													
State Assessment Room			M		M		M																M				A						
Joint Public Information Center			M	M	M								M	M														M					
Emergency Control Center	M	M	M	M	M		M																										
State of Ohio Field Monitoring Team I						M		M						M												M							
State of Ohio Field Monitoring Team II						M		M						M												M							
State of Ohio Communications Van	M	M	M	M																													
State of Ohio Sample Screening Point																										M							
Ottawa County EOC State RAD Room	M	M	M	M	M																												
State Recovery/Re-entry Tabletop																													M	M			
State Field Team Center																										M							
State Laboratory																										M							
<b>RISK JURISDICTIONS</b>																																	
<b>OTTAWA COUNTY</b>																																	
Ottawa County Emergency Operations Center	M	M	M	M						M	M	M	M	M	M	M																	
Initial Notification Point	M			M																													
Joint Public Information Center				M									M	M																			
Emergency Alert System											M																						
Perimeter/Access Control																		M															
Traffic Control																		M															
Protective Actions - Schools EV-2					M	M								M		M																	
Back-up Route Alerting				M						M				M																			
Monitoring/Decontamination - Emer. Workers				M										M									M										
Ottawa County Recovery/Re-entry Tabletop																													M	M		M	
Institutionalized/Special Populations					M									M	M																		
Reception Center					M													M															
Registration/Monitoring/Decontamination																																	
Congregate Care																			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

Table 2 Summary Results of Exercise Evaluation

**Site and Date:** Davis-Besse Nuclear Power Station Ingestion Exercise May 22-23, 2001

JURISDICTION/FUNCTION/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
<b>LUCAS COUNTY</b>																																	
Lucas County Emergency Operations Center	M	M	M	M	M				M	M		M	M	M	M																		
Initial Notification	M			M																													
Joint Public Information Center			M									M	M																				
Institutionalized/Special Populations															M																		
Traffic Control/Perimeter Control													M				M																
Lucas County Recovery/Re-entry Tabletop																													M	M			
Back-up Route Alerting									M				M																				
Congregate Care																			M														
Monitoring/Decon - Public					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 that 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 Issues - Resolved** - Descriptions of ARCAs assessed during previous exercises, which were resolved in this exercise and the corrective actions, demonstrated.
- **Prior Issues - 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 also expedites tracking of exercise issues on a nationwide basis.

The identifying number of 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** - 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.  
Plan issues are reported to the State(s) via letter from the Regional Director.  
Therefore, standardized issue numbers are not assigned to Plan Issues.
- **Exercise Issue Identification Number** - A separate two (or three) digit indexing number, assigned to each issue identified in the exercise.

# **1. STATE OF OHIO**

## **1.1 State Emergency Operations Center**

- a. **MET:** Objectives 1, 2, 3, 4, 9, 10, 11, 12, 13, 14, 15, and 17
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA):** NONE
- d. **NOT DEMONSTRATED:** NONE
- e. **PRIOR ARCAs - RESOLVED:** NONE
- f. **PRIOR ARCAs - UNRESOLVED:** NONE

## **1.2 Initial Notification Point**

- a. **MET:** Objectives
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA):** NONE
- d. **NOT DEMONSTRATED:** NONE
- e. **PRIOR ARCAs - RESOLVED:** NONE
- f. **PRIOR ARCAs - UNRESOLVED:** NONE

## **1.3 State Assessment Room**

- a. **MET:** Objectives 2, 5, 7, 9, and 23
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA):** Objective 26

**Issue No.:** 18-01-26-A-01

**Description:** Advisories 2B, 3A, 3C, 4A, 5A, 6A, 7A, 8A, 8B, and 8C were developed and issued for a 15-mile radius after the release had stopped and before the updated PAG areas, RESTRICTED ZONE and associated BUFFER ZONES

were determined, based on direct survey and lab results established, as required in the "Ohio Implementing Procedures for Emergencies at Licensed Nuclear Plants, Ingestion Zone, Recovery and Re-entry Advisory Group," dated April 3, 2001.

**Recommendation:** State personnel should be trained on the requirement to update/identify Ingestion PAG Areas, RESTRICTED ZONES and associated BUFFER ZONES after the release has stopped, using direct survey and lab results, prior to placing/modifying/or lifting advisories.

**Schedule of Corrective Actions:** The Ingestion Recovery/Reentry Advisory Group (IZRRAG) procedures will be revised to clarify when precautionary advisories are implemented. The procedures will also be revised to clarify when and how the default restricted zone is implemented. The procedures will be based on current guidance from FDA, USEPA and FEMA. Subsequently, training on the revised procedures will be conducted.

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

#### **1.4 Joint Public Information Center**

- a. **MET: Objectives 1, 2, 3, 4, 12 and 13**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA): NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs - RESOLVED: NONE**
- f. **PRIOR ARCAs - UNRESOLVED: NONE**

#### **1.5 Emergency Control Center (ECC)**

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

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

#### **1.6 State of Ohio Field Monitoring Team I**

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

#### **1.7 State of Ohio Field Monitoring Team II**

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

#### **1.8 State of Ohio Communications Van**

- a. MET: Objectives 1, 2, 3, and 4
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION (ARCA): NONE
- d. NOT DEMONSTRATED: NONE

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

#### **1.9 State of Ohio Sample Screening Point**

- a. **MET: Objective 24**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA): NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs - RESOLVED: NONE**
- f. **PRIOR ARCAs – UNRESOLVED: NONE**

#### **1.10 Ottawa County EOC State RAD Room**

- a. **MET: Objective 1, 2, 3, 4, 5, 28, and 29**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA): NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs - RESOLVED: NONE**
- f. **PRIOR ARCAs – UNRESOLVED: NONE**

#### **1.11 State Recovery/Re-entry Tabletop**

- a. **MET: Objectives 28 and 29**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA): NONE**
- d. **NOT DEMONSTRATED: NONE**

- e. PRIOR ARCAs - RESOLVED: NONE
- f. PRIOR ARCAs – UNRESOLVED: NONE

#### **1.12 State Field Team Center**

- a. MET: Objective 24
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION (ARCA): NONE
- d. NOT DEMONSTRATED: NONE
- e. PRIOR ARCAs - RESOLVED: NONE
- f. PRIOR ARCAs – UNRESOLVED: NONE

#### **1.13 Laboratory**

- a. MET: Objective 25
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION (ARCA): NONE
- d. NOT DEMONSTRATED: NONE
- e. PRIOR ARCAs - RESOLVED: NONE
- f. PRIOR ARCAs – UNRESOLVED: NONE

## **2. RISK JURISDICTIONS**

### **2.1 OTTAWA COUNTY**

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

- a. MET: Objectives 1, 2, 3, 4, 9, 10, 11, 12, 13, 14 and 15
- b. DEFICIENCY: NONE

- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA):** 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 (ARCA):** NONE
- d. **NOT DEMONSTRATED:** NONE
- e. **PRIOR ARCAs - RESOLVED:** NONE
- f. **PRIOR ARCAs - UNRESOLVED:** NONE

#### **2.1.3 Joint Public Information Center**

- a. **MET:** Objectives 3, 12 and 13
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA):** NONE
- d. **NOT DEMONSTRATED:** NONE
- e. **PRIOR ARCAs - RESOLVED:** NONE
- f. **PRIOR ARCAs - UNRESOLVED:** NONE

#### **2.1.4 Emergency Alert System**

- a. **MET:** Objectives 11
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA):** NONE
- d. **NOT DEMONSTRATED:** NONE

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

#### **2.1.5 Perimeter/Access Control**

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

#### **2.1.6 Traffic Control**

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

#### **2.1.7 Protective Actions – EV-2**

- a. **MET: Objectives 4, 5, 14 and 16**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA): NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs - RESOLVED: NONE**



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

#### **2.1.8 Back-up Route Alerting**

- a. **MET: Objectives 4, 10 and 14**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA): NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs - RESOLVED: NONE**
- f. **PRIOR ARCAs - UNRESOLVED: NONE**

#### **2.1.9 Monitoring/Decontamination – Emergency Workers**

- a. **MET: Objectives 3, 14and 22**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA): NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs - RESOLVED: NONE**
- f. **PRIOR ARCAs - UNRESOLVED: NONE**

#### **2.1.10 Ottawa County Recovery/Re-entry Tabletop**

- a. **MET: Objectives 28, 29 and 31**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA): NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs - RESOLVED: NONE**
- f. **PRIOR ARCAs - UNRESOLVED: NONE**

#### **2.1.11 Institutionalized/Special Populations**

- a. **MET:** Objectives 5, 14 and 15
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA):** NONE
- d. **NOT DEMONSTRATED:** NONE
- e. **PRIOR ARCAs - RESOLVED:** NONE
- f. **PRIOR ARCAs - UNRESOLVED:** NONE

#### **2.1.12 Reception Center/Registration/Monitoring/Decontamination**

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

#### **2.1.13 Congregate Care**

- a. **MET:** Objective 19
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA):** NONE
- d. **NOT DEMONSTRATED:** NONE
- e. **PRIOR ARCAs - RESOLVED:** NONE
- f. **PRIOR ARCAs - UNRESOLVED:** NONE

## **2.1 LUCAS COUNTY**

### **2.2.1 Emergency Operations Center**

- a. MET: Objectives 1, 2, 3, 4, 5, 9, 10, 12, 13, 14 and 15
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION (ARCA): NONE
- d. NOT DEMONSTRATED: NONE
- e. PRIOR ARCAs - RESOLVED: NONE
- f. PRIOR ARCAs - UNRESOLVED: NONE

### **2.2.2 Initial Notification Point**

- a. MET: Objectives 1 and 4
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION (ARCA): NONE
- d. NOT DEMONSTRATED: NONE
- e. PRIOR ARCAs - RESOLVED: NONE
- f. PRIOR ARCAs - UNRESOLVED: NONE

### **2.2.3 Joint Public Information Center**

- a. MET: Objectives 3, 12 and 13
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION (ARCA): NONE
- d. NOT DEMONSTRATED: NONE

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

#### **2.2.4 Institutionalized/Special Populations**

- a. **MET: Objectives 15**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA): NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs - RESOLVED: NONE**
- f. **PRIOR ARCAs - UNRESOLVED: NONE**

#### **2.2.5 Traffic Control/Perimeter Control**

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

#### **2.2.6 Lucas County Recovery/Re-entry Tabletop**

- a. **MET: Objectives 28 and 29**
- b. **DEFICIENCY: NONE**
- c. **NOT DEMONSTRATED: NONE**
- d. **AREAS REQUIRING CORRECTIVE ACTION (ARCA): NONE**
- e. **PRIOR ARCAs - RESOLVED: NONE**

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

#### **2.2.7 Back-up Route Alerting**

- a. **MET: Objectives 10**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA): NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs - RESOLVED: NONE**
- f. **PRIOR ARCAs – UNRESOLVED: NONE**

#### **2.2.8 Congregate Care**

- a. **MET: Objectives 19**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA): NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs - RESOLVED: NONE**
- f. **PRIOR ARCAs - UNRESOLVED: NONE**

#### **2.2.9 Reception Center Monitoring/Decontamination/Registration**

- a. **MET: Objectives 18**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA): 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.

ACP	Access Control Point
AMA	American Medical Association
ANI	American Nuclear Insurers
ARC	American Red Cross
ARCA	Area Requiring Corrective Action
CCC	Congregate Care Center
CD-V	Civil Defense - Victoreen
CFR	Code of Federal Regulations
CPM	Counts Per Minute
DHHS	U.S. Department of Health and Human Services
DOC	U.S. Department of Commerce
DOE	U.S. Department of Energy
DOI	U.S. Department of the Interior
DOT	U.S. Department of Transportation
DRD	Direct Reading Dosimeter
EAL	Emergency Action Level
EAS	Emergency Alert System
EBS	Emergency Broadcast System
ECL	Emergency Classification Level
EEM	Exercise Evaluation Methodology
EOC	Emergency Operations Center
EOF	Emergency Operations Facility
EPA	U.S. Environmental Protection Agency
EPZ	Emergency Planning Zone
ETA	Estimated Time of Arrival
ETE	Evacuation Time Estimate
EWMDS	Emergency Worker Monitoring and Decontamination Station
FAA	Federal Aviation Administration
FCC	Federal Communications Commission
FDA	U.S. Food and Drug Administration
FEMA	Federal Emergency Management Agency
FR	Federal Register
FTC	Field Team Coordinator
ft/min	feet per minute

ft <sup>3</sup> /min	cubic feet per minute
GE	General Emergency
GM	Guidance Memorandum
ICC	Illinois Commerce Commission
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
IP	Implementing Procedure
ISP	Illinois State Police
JIC	Joint Information Center
JPIC	Joint Public Information Center
KI	Potassium Iodide
mR	milliroentgen
mR/h	milliroentgen per hour
NOAA	National Oceanic and Atmospheric Administration
NOUE	Notification of Unusual Event
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
OEM	Office of Emergency Management
ORO	Offsite Response Organization
PAD	Protective Action Decision
PAG	Protective Action Guide
PAO	Public Affairs Official
PAR	Protective Action Recommendation
PIO	Public Information Officer
POR	Point of Review
R	Roentgen
RAC	Regional Assistance Committee
RACES	Radio Amateur Civil Emergency Service

POR	Point of Review
R	Roentgen
RAC	Regional Assistance Committee
RACES	Radio Amateur Civil Emergency Service
RC	Reception Center
REA	Radioactive Emergency Area
REM	Roentgen Equivalent Man
REP	Radiological Emergency Preparedness
RERP	Radiological Emergency Response Plan
R/h	Roentgen(s) per hour
RO	Radiological Officer
SAE	Site Area Emergency
SEOC	State Emergency Operations Center
TCP	Traffic Control Point
TDD	Telecommunications Device for the Deaf
TL	Team Leader
TLD	Thermoluminescent Dosimeter
UHF	Ultra High Frequency
USCG	U.S. Coast Guard
USDA	U.S. Department of Agriculture
VHF	Very High Frequency
WP	Warning Point



## APPENDIX 2

### EXERCISE EVALUATORS AND TEAM LEADERS

The following is a list of the personnel who evaluated the Davis-Besse Nuclear Power Station exercise on May 22-23, 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:

FEMA	Federal Emergency Management Agency
ICF	ICF Consultants

<u>EVALUATION SITE</u>	<u>EVALUATOR</u>	<u>ORGANIZATION</u>
Chairman, Regional Assistance Committee	Woodie J. Curtis	FEMA
Exercise Director	William King	FEMA

<u>EVALUATION SITE</u>	<u>EVALUATOR</u>	<u>ORGANIZATION</u>
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#### STATE OF OHIO

State Emergency Operations Center	Clint Crackel (TL)	FEMA
State EOC Re-Entry/Recovery	Clint Crackel (TL)	FEMA
State Emergency Operations Center	Bill Van Pelt	ICF
State EOC Re-Entry/Recovery	Bill Van Pelt	ICF
Assessment Room	Richard Grundstrom	ICF
Assessment Room Day 2	Richard Grundstrom	ICF
Laboratory	Richard Grundstrom	ICF
Joint Public Information Center	Daryl Thome'	ICF
Emergency Operations Facility	Bill Serrano	ICF
Media/Rumor Control	Gary Naskrent	FEMA
Joint Public Information Center Day 2	Gary Naskrent	FEMA
Sample Screening Point	Jim Mitchell	ICF
Communications Van	Jim Mitchell	ICF
State Field Team #1	Kevin Flynn	ICF
State Field Team Center	Kevin Flynn	ICF
State Field Team #2	Kathleen Barrett	ICF
Sample Screening Point Day 2	Kathleen Barrett	ICF
Ottawa County EOC	Charles Phillips	ICF

#### OTTAWA COUNTY

County Emergency Operations Center	Terri Connors-Murphy (TL)	FEMA
County EOC Re-Entry/Recovery	Terri Connors-Murphy (TL)	FEMA

EVALUATION SITEEVALUATORORGANIZATION**OTTAWA COUNTY** (continued)

County EOC Special Population	Brian Murphy	FEMA
County EOC KI	Brian Murphy	FEMA
Institutionalized/Special Populations	Brian Murphy	FEMA
County Emergency Operations Center	Tracey Green	ICF
County EOC Re-Entry/Recovery	Tracey Green	ICF
County EOC Media/Rumor Control	Sam Nelson	ICF
Joint Public Information Center	Daryl Thome'	ICF
County EV-2	Pat Tenorio	FEMA
Perimeter Access and Control	Jim Buckson	FHA
Traffic and Access Control	Jim Buckson	FHA
Back-up Route Alerting 5/21/01	Sam Nelson	ICF
Back-up Route Alerting 5/22/01	Sam Nelson	ICF
Back-up Route Alerting 5/23/01	Sam Nelson	ICF
Emergency Worker Mon/Decon	Bill Serrano	ICF
Emergency Worker Mon/Decon	Charles Phillips	ICF
Reception Center Mon/Decon	Charles Phillips	ICF
Congregate Care	Bill Serrano	ICF

**LUCAS COUNTY**

County Emergency Operations Center	Cleven Lloyd (TL)	FEMA
EOC Re-Entry/Recovery	Cleven Lloyd (TL)	FEMA
County Emergency Operations Center	Dave Schuler	ICF
EOC Re-Entry/Recovery	Dave Schuler	ICF
EOC/KI/Spec. Pop	Carl McCoy	ICF
Public-Mon/Decon	Carl McCoy	ICF
EOC/Media/Rumor Control	Carolyn Sturghill	FEMA
Congregate Care	Carolyn Sturghill	FEMA
Joint Public Information Center	Daryl Thome'	ICF
EOC/Traffic & Access Control	Alan Birman	FEMA
Back-up Route Alerting	Alan Birman	FEMA

## **APPENDIX 3**

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

This appendix lists the exercise objectives, which were scheduled for the demonstration in the Davis-Besse Nuclear Power Station on May 22, 2001 through May 23, 2001, and the extent-of-play agreement approved by FEMA Region V on May 1, 2001.

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, and extent-of-play agreement is prepared by the State and approved by FEMA to provide evaluators with guidance on the expected actual demonstration of the objectives.

#### **A. Exercise Objectives**

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

#### **OBJECTIVE 1: MOBILIZATION OF EMERGENCY PERSONNEL**

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

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

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

#### **OBJECTIVE 3: DIRECTION AND CONTROL**

Demonstrate the capability to direct and control emergency operations.

#### **OBJECTIVE 4: COMMUNICATIONS**

Demonstrate the capability to communicate with all appropriate emergency personnel at

facilities and in the field.

**OBJECTIVE 5: EMERGENCY WORKER EXPOSURE CONTROL**

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

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

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

**OBJECTIVE 7: PLUME DOSE PROJECTION**

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

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

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

**OBJECTIVE 9: PLUME PROTECTIVE ACTION DECISION MAKING**

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

**OBJECTIVE 10: ALERT AND NOTIFICATION**

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

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

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

**OBJECTIVE 12: EMERGENCY INFORMATION - MEDIA**

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

**OBJECTIVE 13:     EMERGENCY INFORMATION - RUMOR CONTROL**

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

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

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

**OBJECTIVE 15:     IMPLEMENTATION OF PROTECTIVE ACTIONS - SPECIAL  
POPULATIONS**

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

**OBJECTIVE 16:     IMPLEMENTATION OF PROTECTIVE ACTIONS - SCHOOLS**

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

**OBJECTIVE 17:     TRAFFIC AND ACCESS CONTROL**

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

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

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

**OBJECTIVE 19:     CONGREGATE CARE**

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

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

Demonstrate the adequacy of procedures for the monitoring and decontamination of

emergency workers, equipment, and vehicles.

**OBJECTIVE 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 exposure pathway and to recommend protective actions.

**OBJECTIVE 27: INGESTION EXPOSURE PATHWAY - PROTECTIVE ACTION IMPLEMENTATION**

Demonstrate the capability to implement protective actions for the 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.

**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

The extent-of-play agreement on the following pages was submitted by the State of Ohio, Ottawa and Lucas Counties and the Davis-Besse Nuclear Power Station and was approved by FEMA Region V on May 1, 2001, in preparation for the Davis-Besse Nuclear Power Station exercise on May 22 & 23, 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 Ohio

#### **OBJECTIVE 1: MOBILIZATION OF EMERGENCY PERSONNEL**

*Demonstrate the ability 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 Selected: Yes

Offsite Response Organizations: American Red Cross      Ohio Department of Public Safety/Highway Patrol  
Attorney General's Office      Ohio Emergency Management Agency  
Governor's Office      Ohio Dept of Mental Health  
Ohio Dept of Agriculture      Ohio Dept of Natural Resources  
Ohio Dept of Health      Ohio Dept of Transportation  
Ohio National Guard      Ohio Environmental Protection Agency  
Ohio Dept of Job and Family Services  
Public Utilities Commission of Ohio  
Ohio Dept of Insurance      State and Local Government Commission

Extent of Play: The state will notify and mobilize all response agencies that have responsibilities in the State EOC (listed below). The field activities will be pre-positioned. (Full mobilization was last demonstrated in June 2000.) The following response functions will be staffed:

<b>State EOC:</b>	Executive Room	<b>Field Activities:</b>	Emergency Control Center
	Operations Room		Joint Public Information Center
	Assessment Room		Field Monitoring Teams
	Public Information		Field Sample Screening Point
	Rumor Control		Communications Van
	Communications		Field Team Center
	Security		Ohio Dept of Health Labs

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

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

Objective Selected: Yes

**Offsite Response Organization:**

Ohio Emergency Management Agency

**Extent of Play:** All facilities, equipment and displays at the locations listed in Objective 1 will be demonstrated. Backup power will be demonstrated in the EOC at the time mutually agreed upon by FEMA evaluators and Ohio EMA's communications section.

**OBJECTIVE 3: DIRECTION AND CONTROL**

*Demonstrate the ability to direct and control emergency operations.*

**Objective Selected:** Yes

**Offsite Response Organizations:**

Governor's Office  
Ohio Department of Health  
Ohio Emergency Management Agency

**Extent of Play:** Overall direction and control of state activities will be demonstrated in the State EOC. The Executive Director of Ohio EMA will be positioned in the Executive Room and will coordinate decisions on behalf of the Governor's Office. The Ohio Department of Health is responsible for operational functions in the Assessment Room.

**OBJECTIVE 4: COMMUNICATIONS**

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

**Objective Selected:** Yes

**Offsite Response Organization:**

Ohio Emergency Management Agency

**Extent of Play:** During the plume phase, the primary means of communications between the State EOC, County EOCs, Joint Public Information Center and the Emergency Control Center is telephone. The primary means of communications between the State EOC, field monitoring teams and field sample screening point is two-way radio. The state communications van will be located on the Bethel Church grounds to relay radio messages from the field activities to the state and county EOCs. Backup communications will be available during the exercise and will be demonstrated upon request or in case primary communications fail. Controller injects will drive play on the second day.

**OBJECTIVE 5: EMERGENCY WORKER EXPOSURE CONTROL**

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

**Objective Selected:** Yes

**Offsite Response Organizations:**



Ohio Department of Health  
Ohio Emergency Management Agency  
Ohio Environmental Protection Agency

**Extent of Play:** The State Assessment Room will monitor the exposure of the field monitoring teams. If a sample team is dispatched to a spot within the restricted zone during the ingestion or recovery phase of the exercise, it will be accompanied by one of the field monitoring teams.

## **OBJECTIVE 6: FIELD RADIOLOGICAL MONITORING - AMBIENT RADIATION MONITORING**

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

**Objective Selected:** Yes

\* **Offsite Response Organizations:**

Ohio Emergency Management Agency

**Extent of Play:** Three field radiological monitoring teams will participate in the exercise out of sequence. The teams will be pre positioned at the Fremont Airport. The teams will function from that point in accordance with their SOPs. Field team play will be driven by controller injects.

## **OBJECTIVE 7: PLUME DOSE PROJECTIONS**

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

**Objective Selected:** Yes

**Offsite Response Organizations:**

Ohio Department of Health  
Ohio Emergency Management Agency  
Ohio Environmental Protection Agency

**Extent of Play:** The State Assessment Room will be activated at the **Alert** stage. Plume projections will be done on a computer using a dose assessment program specifically for the Davis-Besse Nuclear Power Station. The backup is a battery operated laptop computer and will be demonstrated if requested. Recommendations will then be forwarded to the Executive Group.

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

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

**Objective Selected:** Yes

**Offsite Response Organizations:**

Ohio Department of Health  
Ohio Emergency Management Agency  
Ohio Environmental Protection Agency

**Extent of Play:** As stated in Objective 6, the radiological monitoring teams will function in accordance with their procedures. Samples will be taken to the field sample screening point (located on the Bethel Church grounds) but **will not** be transported to the lab in Columbus. The lab is being demonstrated out of sequence.

## **OBJECTIVE 9: PLUME PROTECTIVE ACTION DECISION MAKING**

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

**Objective Selected:** Yes

### **Offsite Response Organizations:**

Ohio Department of Health  
Ohio Emergency Management Agency  
Ohio Environmental Protection Agency

**Extent of Play:** The decision making process will take place in accordance with the State Plan. Recommendations will be processed in the Assessment Room and forwarded to the Executive Room. Coordination will take place between the executive groups in the Lucas County, Ottawa County and State of Ohio EOCs. The recommendation will then be formally issued to the counties over the dedicated phone in the Assessment Room.

## **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.*

**Objective Selected:** Yes

### **Offsite Response Organizations:**

Ohio Department of Health  
Ohio Emergency Management Agency

**Extent of Play:** The state will consult with the county EOCs to determine the best immediate protective action for the populace. Once a decision is reached that requires the activation of the alert and notification system, Ottawa County will simulate the initiation of the sirens and the appropriate EAS message. (See Ottawa County Objective 10.)

## **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 Selected:** Yes

**Offsite Response Organizations:**

Ohio Department of Health  
Ohio Emergency Management Agency

**Extent of Play:** Same as Objective 10.

**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 Selected:** Yes

**Offsite Response Organizations:**

Ohio Department of Public Safety  
Ohio Department of Health  
Ohio Emergency Management Agency

**Extent of Play:** The State PIO and a technical representative will be present at the JPIC (First Energy Building in Toledo, Ohio) to address protective actions being implemented and the activities taking place at the state level. Public information representatives will be present in the State EOC to communicate with the JPIC. A Joint Information Center will be located at Ohio EMA on the second day.

**OBJECTIVE 13: EMERGENCY INFORMATION - RUMOR CONTROL**

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

**Objective Selected:** Yes

**Offsite Response Organizations:**

Ohio Emergency Management Agency

**Extent of Play:** In accordance with the REP plan and SOPs, establishing and publicizing a rumor control telephone number for the State EOC will accomplish rumor control.

One rumor control operator will be demonstrated during the exercise. A minimum of 12 rumor control messages will be inserted. The rumor control operator will receive an average of six calls per hour for a two-hour period.

The rumor control officer will be responsible for identifying trends. This information will be forwarded to the PIO at the JPIC.

**OBJECTIVE 14: IMPLEMENTATION OF PROTECTIVE ACTION - USE OF POTASSIUM IODIDE (KI) FOR EMERGENCY WORKERS, INSTITUTIONALIZED PERSONS, 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.*

Objective Selected: Yes

Offsite Response Organizations:

Ohio Department of Health

Extent of Play: The field monitoring teams will simulate the use of KI if recommended by ODH. The State Plan does not specify the use of KI by the general public. All emergency workers and institutions have pre-distributed KI.

## **OBJECTIVE 15: IMPLEMENTATION OF PROTECTIVE ACTIONS - SPECIAL POPULATIONS**

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

Objective Selected: No - This is a county function.

## **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).*

Objective Selected: No - This is a county function.

## **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 Selected: No - This is a county function.

## **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 Selected: No - This is a county function.

## **OBJECTIVE 19: CONGREGATE CARE**

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

Objective Selected: No - This is a county function.

## **OBJECTIVE 20: MEDICAL SERVICES - TRANSPORTATION**

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

Objective Selected: No - This is a county function.

## **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 radiological exposure individuals. This will be demonstrated through exercise messages.*

Objective Selected: No - This is a county function.

## **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 Selected: No - This is a county function.

## **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 Selected: Yes

### **Offsite Response Organizations:**

Ohio Emergency Management Agency

Extent of Play: Personnel in the State Assessment Room will evaluate the need for federal or other assistance and initiate the appropriate requests, in accordance with their procedures.

## **OBJECTIVE 24: POST-EMERGENCY SAMPLING**

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

Objective Selected: Yes

### **Offsite Response Organizations:**

Ohio Department of Agriculture  
Ohio Department of Health

Ohio Department of Natural Resources  
Ohio Emergency Management Agency  
Ohio Environmental Protection Agency

**Extent of Play:** Field Team Center (FTC) play will be separated from the Recovery/Reentry tabletop, which will take place simultaneously at the State EOC. An exercise controller will inject the requests for field samples that would normally originate from the State Ingestion Zone Recovery/Reentry Advisory Group (IZRRAG). Field sample teams will be pre-positioned at the FTC. Upon receipt of requests for samples, teams will be dispatched to locations within the ingestion EPZ to collect the samples. Meat, water, soil, milk, vegetation, and fish samples will be collected.

Samples will be taken to the sample screening point (located at the FTC) but **will not** be transported to the lab in Columbus. The lab is being demonstrated out of sequence.

## **OBJECTIVE 25: LABORATORY OPERATIONS**

*Demonstrate laboratory operations and procedures for measuring and analyzing samples.*

**Objective Selected:** Yes

**Offsite Response Organizations:**

Ohio Department of Health Lab

**Extent of Play:**

The ODH lab will demonstrate its procedures out of sequence on the second day of the exercise. Meat, soil, water, and vegetation samples will be analyzed in accordance with the lab's procedures.

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

*Demonstrate the capability to project dose to the public for ingestion exposure pathway and recommend protective actions.*

**Objective Selected:** Yes

**Offsite Response Organizations:**

Ohio Department of Health  
Ohio Emergency Management Agency  
Ohio Environmental Protection Agency

**Extent of Play:** As in the emergency phase, the Dose Assessment Group will analyze data, based on projections of the radioisotope release and field samples. Since samples will not actually be collected until the second day, simulated sample data will be used for assessment. Recommendations will then be forwarded to the IZRRAG for consideration as advisories. Advisories will be incorporated into News Advisories. The Executive Group must approve all News Advisories.

## **OBJECTIVE 27: INGESTION EXPOSURE PATHWAY - PROTECTIVE ACTION IMPLEMENTATION**

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

**Objective Selected:** Yes

**Offsite Response Organizations:**

Ohio Emergency Management Agency

**Extent of Play:** Recommendations decided upon in Objective 26 will be disseminated to the public via News Advisories from the JPIC. The Joint Information Center will be located at Ohio EMA on the second day.

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

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

**Objective Selected:** Yes

**Offsite Response Organizations:**

Farm Service Agency - USDA  
Ohio Department of Agriculture  
Ohio Department of Health  
Ohio Department of Natural Resources  
Ohio Emergency Management Agency  
Ohio Environmental Protection Agency  
Ohio State University Extension

**Extent of Play:** The Ingestion Zone Recovery/Reentry Advisory Group through tabletop discussions will demonstrate relocation, reentry, and return decision-making. Since samples will not actually be collected and analyzed until the second day, simulated sample data will be used to drive discussion.

This demonstration will be conducted on the morning of the second day of the exercise.

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

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

**Objective Selected:** Yes

**Offsite Response Organizations:**

Farm Service Agency - USDA  
Ohio Department of Agriculture  
Ohio Department of Health  
Ohio Department of Natural Resources  
Ohio Emergency Management Agency  
Ohio Environmental Protection Agency  
Ohio State University Extension

**Extent of Play:** The Ingestion Zone Recovery/Reentry Advisory Group through tabletop discussions will demonstrate implementation of relocation, reentry, and return. The discussions will be driven by controller inject messages.

This demonstration will be conducted on the morning of the second day of 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.*

**Objective Selected:** No - The State demonstrated this objective in June 1998.

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

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

**Objective Selected:** No - This is a county function.

### **OBJECTIVE 32: UNANNOUNCED EXERCISE OR DRILL**

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

**Objective Selected:** No - The State received credit for this objective in June 1998 (DBNPS tornado).

### **OBJECTIVE 33: OFF-HOURS EXERCISE OR DRILL**

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

**Objective Selected:** No - The State received credit for this objective in June 1998 (DBNPS tornado).

## **OTTAWA COUNTY 2001 EXERCISE 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.

Credit for this objective was received for the July 2000 mass casualty incident at Lonz Winery, Middle Bass, and Ohio. Play will take place only to drive the exercise scenario. This objective will not be evaluated.

**Extent of Play:** All agencies identified in the Ottawa County Radiological Emergency Response Plan (RERP) will be alerted as per established procedures. Appropriate personnel shall be mobilized in accordance with the RERP to staff emergency



facilities. The Sheriff's Dispatcher and Ottawa County EMA Director will notify the emergency response agencies/individuals. Individuals/agencies to be notified will vary according to the level of emergency. Agencies/individuals will be contacted by radio, pager or telephone and will verify the accurate receipt of the notification message by either reading it back or calling the Sheriff's Dispatch Center (or EOC, if activated) depending upon how the individual was notified. Following verification, the designated individual will notify appropriate personnel within the agency by using normal internal notification procedures. Personnel will be informed of the Plant's status so that each agency with response roles at specific levels in the emergency can take appropriate actions as specified in the plan. The individual/agency representative receiving initial notification will notify appropriate personnel within the agency using normal internal notification procedures. Individual agencies rely on telephone and/or radio to contact their personnel according to a predetermined priority call list. The County EMA Director shall be responsible for EOC activation and operation. The EOC will not normally be activated for an UNUSUAL EVENT. It may be activated for an ALERT at the discretion of the EMA Director. The EOC staff will be fully mobilized at a SITE AREA EMERGENCY or GENERAL EMERGENCY. The following field activities/facilities will be driven by controller injects and demonstrated out of sequence:

- Route Verification/ Supplemental Route Alerting
  - Harris-Elmore Fire and EMS Departments
  - Monday, May 21, 2001 – 1830 hours
  - Carroll Township Fire and EMS Departments
  - Tuesday, May 22, 2001 – 1830 hours
  - Portage Fire District
  - Wednesday, May 23, 2001 – 1830 hours
- Backup Route Alerting
  - Harris-Elmore Fire and EMS Departments
  - Monday, May 21, 2001 – 1830 hours
  - Carroll Township Fire and EMS Departments
  - Tuesday, May 22, 2001 – 1830 hours
  - Portage Fire District
  - Wednesday, May 23, 2001 – 1830 hours
  - Perimeter/Access Control

- Ottawa County Engineer – Highway Garage  
Tuesday, May 22, 2001 – 0800 hours
- Ottawa County Sheriff  
Tuesday, May 22, 2001 – 1000 hours
- Traffic Control
  - Ottawa County Sheriff  
Tuesday, May 22, 2001 – 1000 hours
  - Emergency Worker Monitoring/Decontamination
  - Port Clinton Fire and EMS Departments  
Tuesday, May 22, 2001 – 1830 hours
- Schools
  - Genoa Area Schools  
Tuesday, May 22, 2001 – 0900 hours
  - Benton Carroll Salem Schools  
Tuesday, May 22, 2001 – 1030 hours
- Institutionalized/Special Populations
  - Riverview Nursing Home  
Wednesday, May 23, 2001 – 0900 hours

**OBJECTIVE 2:      FACILITIES – EQUIPMENT, DISPLAYS AND WORK ENVIRONMENT**

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

**OBJECTIVE SELECTED**

Extent of Play:      All facilities, equipment and displays at the locations listed in Objective 1 will be demonstrated. Backup power will be demonstrated in the EOC prior to EOC activation.

**OBJECTIVE 3:      DIRECTION AND CONTROL**

Demonstrate the capability to direct and control emergency operations.

**OBJECTIVE SELECTED**

Extent of Play: Direction and Control will be demonstrated by appropriate participating agencies in accordance with RERP and SOPs.

#### **OBJECTIVE 4: COMMUNICATIONS**

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

##### **OBJECTIVE SELECTED**

Extent of Play: The telephone is used as the primary means of communications between the Utility, Local, County, State and Federal agencies. The initial notification call informing County officials of an emergency at DBNPS may come through the Sheriff's Dispatch Center on the 4-Way dedicated phone telephone line. Upon activation of the County EOC, a 4-way dedicated (conference style) telephone hook-up will connect the Utility, Ottawa County, Lucas County and the Ohio EMA. This, in turn, will be supported by a facsimile machine system to verify verbal communications, as well as plant status and radiological dose assessment updates. This system may remain open and operational until the appropriate authority terminates the incident. In addition, a 3-way conference line will connect Ottawa and Lucas County Commissioners and the Governor's Representative and will be used to coordinate protective action recommendations and activation of the siren system and EAS. Once notification has been made and communication links are established, a telephone/radio network will be used to expedite agency communications.

Radio/backup communication will be available for:

- Amateur Radio Emergency Service
- Ohio Emergency Management Agency
- Ohio State Highway Patrol
- United States Coast Guard
- Fire/EMS Liaison
- Ottawa County Schools' Liaison
- Ottawa County Sheriff's Dispatch

#### **OBJECTIVE 5: EMERGENCY WORKER EXPOSURE CONTROL**

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

##### **OBJECTIVE SELECTED**

Extent of Play: The Ottawa County Radiological Officer will coordinate with dosimetry

coordinators to monitor exposure of county emergency workers. Each emergency worker will wear assigned dosimetry devices at all times when performing personnel or equipment contamination monitoring and decontamination, when handling radioactive material, and whenever an individual is in the EPZ during a SITE AREA EMERGENCY or GENERAL EMERGENCY. Individuals will be instructed to read their direct-reading dosimetry every thirty minutes or more frequently after the onset of a GENERAL EMERGENCY.

Should the scenario dictate a revised exposure limit, the message will be limited to those emergency workers having a 25R limit initially.

Advisories from the EOC to field personnel will be simulated due to out of sequence play.

Dosimetry packets have been pre-distributed to emergency response organizations.

Objective 5 will be demonstrated by appropriate agencies/personnel in conjunction with their RERP assignments.

- Carroll Township Fire and EMS Departments
- Harris-Elmore Fire and EMS Departments
- Portage Fire District
- Port Clinton Fire and EMS Departments
- Ottawa County Sheriff
- Ottawa County Engineer – Highway Garage
- Genoa Area Schools
- Benton-Carroll-Salem Schools
- Ottawa County Radiological Officer
- Riverview Nursing Home

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

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

**OBJECTIVE NOT APPLICABLE**

#### **OBJECTIVE 7: PLUME DOSE PROJECTION**

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

OBJECTIVE NOT APPLICABLE

**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  $10^{-7}$  (.0000001) micro-curies per cubic centimeter in the presence of noble gases and obtain samples of particulate activity in the airborne plume.

OBJECTIVE NOT APPLICABLE

**OBJECTIVE 9: PLUME PROTECTIVE ACTION DECISION MAKING**

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

**OBJECTIVE SELECTED**

Extent of Play: Protective action decisions (PADs) will be made in accordance with the RERP and SOPs. The Ottawa County Commissioners are responsible for the recommendation and implementation of protective measures for the affected public and emergency workers. They will reach their decisions by weighing information, data and protective action recommendations from the State, Utility, Federal and local sources. When a protective action has been recommended by either the Davis-Besse Nuclear Power Station (DBNPS) or the State of Ohio, the Ottawa County Commissioners will consult with the Ottawa County Executive Group and the Lucas County Commissioners to decide upon a coordinated protective action, the time when the sirens will be activated, and an Emergency Alert System (EAS) message.

**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 and local officials.

**OBJECTIVE SELECTED**

Extent of Play: Siren activation will be simulated at Site Area Emergency, General Emergency and prior to the announcement of PADS.

Sirens 203, 311 and 507 will be identified as failing at the General Emergency.

NOAA will be contacted and provided a test message.  
NOAA will not broadcast an emergency message.

- National Weather Service (Cleveland)

EAS messages will be prepared and provided to the LP 1.

*EAS Messages are transmitted electronically from the Ottawa County BOC to the LP-1 station via telephone lines utilizing the SAGE ENDEC. Upon receipt of the transmission, the LP-1 station may hold the message for up to 5 minutes before broadcast. The Ottawa County ENDEC provides a printout verifying that the message was sent. The LP-1 ENDEC provides a printout verifying receipt of the message.*

A test message will be recorded in lieu of the first instructional message (at Site Area Emergency). Subsequent messages may be recorded but not broadcast.

- WRVF 101.5 FM Radio

Route Verification/Supplemental Route Alerting and Backup Route Alerting will be demonstrated out-of-sequence. PA systems will be demonstrated with a test message at an agreed upon location.

- Harris-Elmore Fire and EMS Departments Monday May 21, 2001– 830 hrs.
- Carroll Township Fire and EMS Departments Tuesday May 22, 2001– 1830 hrs.
- Portage Fire District Wednesday May 23, 2001–1830 hrs.  
Telecommunications devices for the deaf (TTY) s) are available for demonstration by the Ottawa County Sheriff's Dispatch and by Rumor Control.

## **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 SELECTED**

Extent of Play: EAS messages will be prepared and provided to the LP 1.

A test message will be recorded and broadcast (if programming allows) in lieu of the first instructional message (at Site Area Emergency). Subsequent messages may be recorded but not broadcast.

- WRVF 101.5 FM Radio

## **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 SELECTED**

Extent of Play: In accordance with the RERP and SOPs, the JPIC will be activated and staffed by PIOs from Ottawa County, Lucas County, the State, Federal Agencies and the Utility upon declaration of an ALERT. News Releases will be coordinated with all participating PIOs prior to release to the news media with briefings held jointly, as appropriate.

The Ottawa County PIO will maintain contact with the Public Information Assistant in the Ottawa County Emergency Operations Center (EOC) who will serve as the primary contact point for all public information related matters within the Ottawa County EOC.

Information from participating local or County agencies in the EOC will be coordinated with the Public Information Assistant. The Public Information Assistant will provide information to the PIO for development of a joint news statement with Lucas County and the State, if appropriate.

The Public Information Assistant will ensure that the Commissioners are aware of information being disseminated to the news media. The PIO will coordinate with the Public Information Assistant to receive Commissioner approval on news statements affecting Ottawa County prior to dissemination 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 SELECTED**

Extent of Play: In accordance with the RERP and SOPs, establishing and publicizing a rumor control telephone number for the Ottawa County EOC will accomplish rumor control. The Rumor Controller will be responsible for answering the Ottawa County rumor control telephone line and will inform the Public Information Assistant of rumors. The Public Information Assistant will provide feedback on rumors to the PIO at the JPIC.

One rumor control line shall receive not less than 6 calls per hour for a 2-hour period. Telephone calls shall be placed from a control cell.

The Rumor Controller will be responsible for identifying trends. This information will be forwarded to the PIO at the JPIC.

A telecommunication device for the deaf (TTY) will be available for demonstration by Rumor Control personnel.

**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.

**OBJECTIVE SELECTED**

Extent of Play: In accordance with the RERP and SOPs, Potassium Iodide (KI) is supplied by the Ohio Department of Health to the Ohio EMA for pre-distribution to offsite response organizations. The Ohio EMA provides a full dose complement of KI tablets for each dosimetry packet of emergency workers with potential to enter the EPZ, thus allowing emergency workers to begin use promptly and voluntarily upon recommendation from the Ohio Department of Health. Should the Ohio Department of Health recommend the issuance of KI for emergency workers, the County Radiological Officer will coordinate with local agency dosimetry coordinators to implement such a recommendation. **KI WILL NOT BE INGESTED.**

Issuance of KI to institutionalized individuals is based upon the recommendation of the Ohio Department of Health and implemented at the County and local level. The Special Needs Communicator will notify institutional facilities, as needed, and recommend that the appropriate designee for each applicable facility administer KI to institutionalized persons. Actual administration is under the direction of the attending physician. **KI WILL NOT BE INGESTED.**

Agencies/Individuals will demonstrate Objective #14 in conjunction with their RERP assignments. Those available for evaluator interviews will include:

- Carroll Township Fire and EMS Departments
- Harris-Elmore Fire and EMS Departments
- Portage Fire District
- Port Clinton Fire and EMS Departments
- Ottawa County Sheriff
- Ottawa County Engineer – Highway Garage
- Benton-Carroll-Salem Schools



- Genoa Area Schools
- Ottawa County Radiological Officer
- Riverview Nursing Home

**OBJECTIVE 15: IMPLEMENTATION OF PROTECTIVE ACTIONS – SPECIAL POPULATIONS**

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

**OBJECTIVE SELECTED**

Extent of Play: A list of people with special needs (mobility impaired, hearing impaired, etc.) is maintained by the Ottawa County Health Department, in coordination with the Ottawa County EMA and local fire departments, for use in an emergency.

A special needs list shall be printed by the Health Department, however, due to confidentiality concerns, simulated lists will be provided to appropriate fire departments.

Appropriate protective actions for institutionalized/special needs shall be demonstrated at Riverview Nursing Home, at 0900 hours, Wednesday, May 23, 2001.

**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).

**OBJECTIVE SELECTED**

Extent of Play: In accordance with the RERP and SOPs, the Ottawa County Schools' Liaison will report to the EOC to:

- 1) Provide notification to local school districts.
- 2) Advise school district superintendents on plant status and recommended response actions.
- 3) Simulate the coordinating of protective actions for schools.
- 4) Simulate the coordinating with local school districts to provide buses and volunteer drivers for the evacuation of the mobility impaired, non-auto owning populations and health care facilities.

Two buses will be activated and two drivers mobilized.

One bus will be driven from Genoa Middle School to Oak Harbor High School. The second bus will be driven along the prescribed evacuation route from Oak Harbor High School to the designated Reception Center at Vanguard Vocational School in Fremont.

Vanguard will not participate in the 2001 Exercise.  
No students will be transported.

- Genoa field participants available for interview beginning at 0900 hours, Tuesday, May 22, 2001 include:
- Genoa - Superintendent, Transportation Supervisor, Dosimetry Coordinator and 1 bus driver.
- Benton-Carroll-Salem field personnel available for interview beginning at 1030 hours, Tuesday, May 22, 2001 include:

Benton-Carroll-Salem - Superintendent, High School Principal, Transportation Supervisor, Dosimetry Coordinator and 1 bus driver.

#### **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 SELECTED**

Extent of Play: In accordance with the RERP and SOPs, major traffic intersections are controlled by the Ottawa County Sheriff's Office with support from the Ohio State Highway patrol, local police departments and the Ohio National Guard.

The County Engineer – Highway Garage and ODOT also assist in traffic control efforts by delivering traffic control equipment and assigning personnel to predetermined control points.

Stalled vehicles restricting evacuation routes will be removed through local law enforcement means or removed by County Engineer – Highway Garage and Ohio Department of Transportation personnel pushing the disabled vehicle off the road.

If assistance is required to perform traffic control, clearing roads or removing stalled vehicles, it is requested from the State through Ohio EMA.

- One Traffic Control Point shall be demonstrated:  
6 – 2: SR 2 and SR 358 Ottawa County Sheriff

Those pre-designated perimeter/access control points necessary to control access to an affected area will be activated (**SIMULATED**).

Personnel from the Sheriff's Office, Ohio State Highway Patrol, local police departments, Ohio National Guard and ODNR supported by perimeter control equipment from the County Engineer – Highway Garage and Ohio Department of Transportation ensure that unauthorized vehicles do not enter the evacuated areas.

Two Perimeter/Access Control Points shall be demonstrated:

- 2– 13: CR 98 (Salem Carroll Rd.) and T – 103 (Atwater Rd.)  
Ottawa County Engineer – Highway Garage
- 6 – 2: SR 2 and SR 358  
Ottawa County Sheriff

Remaining Traffic Control and Perimeter/Access Control Points shall be demonstrated procedurally at the Ottawa County EOC by:

- Ottawa County Sheriff Liaison
- Ottawa County Engineer Liaison
- Ohio Department of Transportation Liaison
- Ohio State Highway Patrol Liaison
- Ottawa County Engineer- Highway Garage personnel available for interview beginning at 0800 hours, Tuesday, May 22, 2001 include: Highway Superintendent, Dosimetry Coordinator and 1 driver
- Ottawa County Sheriff's personnel available for interview beginning at 1000 hours, Tuesday, May 22, 2001 include: Chief Deputy, Dosimetry Coordinator and road officer

## **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 SELECTED**

Extent of Play: In accordance with the RERP and SOPs, if evacuation is the recommended protective action, residents are instructed to leave the affected area along designated routes and go to specific reception centers located in adjacent/host counties. *No reception centers are located in Ottawa County.* At reception centers, the evacuees are checked for contamination (if potential for contamination exists), registered and assigned to a care center, if necessary.

The Fremont Ross High School Reception Center, Fremont, Ohio will be demonstrated out of sequence Wednesday, May 23, 2001 at 1830 hours.

Fremont, Ballville Township, and Sandusky Township Fire Departments will demonstrate Monitoring and decontamination procedurally.

*The Dosimetry Coordinator will be pre-positioned at Fremont Ross High School and will distribute dosimetry from that location.*

*The ORO will provide six individuals to be simulated evacuees. They will be monitored for contamination and will be processed through the facility. Initial monitoring utilizing a Bicron Portal Monitor will identify one evacuee to be referred to secondary monitoring.*

*Decisions on the need for decontamination will be made based on Controller injected radiation levels. Decontamination will be simulated. The proper sequence for washing and for decontamination efforts, and the decisions to refer individuals who cannot be decontaminated to medical facilities will be demonstrated via inquiries.*

*Contamination control and record-keeping procedures will be demonstrated at the initial and secondary monitoring points.*

*Brown Kraft paper will be used for floor covering.*

*Vehicle monitoring and decontamination area will be set up per procedure. One vehicle will be monitored and decisions regarding the need for decontamination will be made as radiation levels are presented via controller inject. Record keeping procedures will be demonstrated. No vehicles will be washed. Decontamination capabilities will be demonstrated through observation and inquiries.*

*Registration of six evacuees will be demonstrated under the direction of the Reception Center Manager (Sandusky County Health Department). Transportation of evacuees from the reception center to care centers will not be demonstrated. Participating organizations:*

- *Fremont Fire Department*
- *Sandusky Township Fire Department*
- *Ballville Township Fire Department*
- *Fremont Police*
- *WSOS*

**OBJECTIVE 19: CONGREGATE CARE**

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

#### **OBJECTIVE SELECTED**

Extent of Play: *No care centers are located in Ottawa County.*

Care centers for evacuees are set up in schools, churches and other facilities in Sandusky, Erie and Lucas Counties, as needed. The care centers are activated, as needed, and are operated under the direction of the American Red Cross.

One Sandusky County congregate care facility, Saint Joseph Central Catholic High School will be demonstrated out of sequence on Wednesday, May 23, 2001 at 1900 hours.

*Care Center capabilities to provide food, bedding and other necessities will be demonstrated via documentation from the American Red Cross.*

*American Red Cross staff positions participating will include one care center manager, one registration worker, one nurse, and one family worker at the care center.*

*Participating organizations:*

- *American Red Cross*
- *Saint Joseph Center Catholic High School*
- *ARES/RACES*
- *Fremont Police Department*

#### **OBJECTIVE 20: MEDICAL SERVICES – TRANSPORTATION**

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

#### **OBJECTIVE NOT SELECTED**

#### **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 NOT SELECTED**

#### **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 SELECTED**

Extent of Play: The Port Clinton Fire and EMS Departments will demonstrate emergency Worker Monitoring and Decontamination at the True-Lay Stadium out-of-sequence on Tuesday, May 22, 2001, beginning at 1830. Dosimetry will be issued at the station.

The ORO will provide an individual to be a simulated Emergency Worker returning from a field assignment. One Emergency Worker will be monitored for contamination and will be processed through the facility.

Decisions on the need for decontamination will be made based on Controller injected radiation levels. Decontamination will be simulated. The proper sequence for washing and for decontamination efforts, and the decisions to refer individuals who cannot be decontaminated to medical facilities will be demonstrated via inquiries.

Members will demonstrate vehicle monitoring and decontamination of the Port Clinton Fire and EMS Departments at Bataan Elementary School. The vehicle monitoring and decontamination area will be set up as per procedure. One vehicle will be monitored but not decontaminated. A firefighter will be available to answer questions regarding monitoring and decontamination procedures, contamination control and record keeping.

#### **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 NOT APPLICABLE**

#### **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 NOT APPLICABLE**

#### **OBJECTIVE 25: LABORATORY OPERATIONS**

Demonstrate the laboratory operations and procedures for measuring and analyzing samples.

OBJECTIVE NOT APPLICABLE

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

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

OBJECTIVE NOT APPLICABLE

**OBJECTIVE 27:     INGESTION EXPOSURE PATHWAY - PROTECTIVE ACTION IMPLEMENTATION**

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

OBJECTIVE NOT SELECTED

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

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

**OBJECTIVE SELECTED**

Extent of Play: The Ottawa County Post Accident Operations Committee thru tabletop discussion will demonstrate Relocation, Re-entry and Return decision-making. The initiating conditions/scenario will be provided prior to the demonstration. They may be independent of the plume phase conditions. Discussions will be driven by Controller injects and State-provided dose assessments.

Members of the PAOC in accordance with the RERP and SOPs will demonstrate objective 28 on Wednesday, May 23, 2001 – 0900 hours.

- Ottawa County Commissioners
- Ottawa County Emergency Management
- Ottawa County Sheriff
- Ottawa County Engineer
- Ottawa County Radiological Officer
- Ottawa County Health Department
- Ottawa County Public Information Officer
- Ohio State University Extension Agent
- Fire/EMS Liaison
- Local Government Liaisons (as appropriate)

- OEMA Resident Radiological Analyst

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

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

### **OBJECTIVE SELECTED**

Extent of Play: The Ottawa County Post Accident Operations Committee thru tabletop discussion will demonstrate Implementation of Relocation, Re-entry and Return. The initiating conditions/scenario will be provided prior to the start of the demonstration. They may be independent of the plume phase conditions. Discussions will be driven by Controller injects and State provided dose assessments.

Members of the PAOC in accordance with the RERP and SOPs will demonstrate objective 29 on Wednesday, May 23, 2001 – 0900 hours.

- Ottawa County Commissioners
- Ottawa County Emergency Management
- Ottawa County Sheriff
- Ottawa County Engineer
- Ottawa County Radiological Officer
- Ottawa County Health Department
- Ottawa County Public Information Officer
- Ohio State University Extension Agent
- Fire/EMS Liaison
- Local Government Liaisons (as appropriate)
- OEMA Resident Radiological Analyst

## **OBJECTIVE 30: CONTINUOUS, 24-HOUR STAFFING**

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

### **OBJECTIVE NOT SELECTED**

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

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



## **OBJECTIVE SELECTED**

Extent of Play: Davis-Besse personnel shall request support through the Ottawa County EOC. Objective 31 shall be demonstrated through discussion at the EOC.

## **OBJECTIVE 32: UNANNOUNCED EXERCISE OR DRILL**

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

## **OBJECTIVE NOT SELECTED**

Credit for this objective was received for the July 2000 mass casualty incident at Lonz Winery, Middle Bass Island.

## **OBJECTIVE 33: OFF-HOURS EXERCISE DRILL**

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

## **OBJECTIVE NOT SELECTED**

Credit for this objective was received for the July 2000 mass casualty incident at Lonz Winery, Middle Bass Island.

## **Lucas County**

## **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 SELECTED**

Extent of Play: One of the Commissioners will be available for the Exercise. In the event that this Commissioner is not available, Ohio Revised Code 305.30 allows for a County Administrator to have the powers of a Commissioner in the time of emergency. An Administrator will participate in the Commissioner's absence.

## **OBJECTIVE 2: FACILITIES – EQUIPMENT, DISPLAYS AND WORK**

## ENVIRONMENT

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

### OBJECTIVE SELECTED

Extent of Play:                      Back-up power will not be demonstrated.

### OBJECTIVE 3:      DIRECTION AND CONTROL

Demonstrate the capability to direct and control emergency operations.

### OBJECTIVE SELECTED

Extent of Play: One of the Commissioners will be available for the Exercise. In the event that this Commissioner is not available, Ohio Revised Code 305.30 allows for a County Administrator to have the powers of a Commissioner in the time of emergency. An Administrator will participate in the Commissioner's absence.

### OBJECTIVE 4:      COMMUNICATIONS

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

### OBJECTIVE SELECTED

The telephone is used as the primary means of communications between the Utility, Local, County, State and Federal agencies. The initial notification call informing County officials of an emergency at DBNPS may come through the Sheriff's Dispatch Center on the 4-Way dedicated phone telephone line. Upon activation of the County EOC, a 4-way dedicated (conference style) telephone hook-up will connect the Utility, Lucas County, Ottawa County, and the Ohio EMA. This, in turn, will be supported by a facsimile machine system to verify verbal communications, as well as plant status and radiological dose assessment updates. This system may remain open and operational until the appropriate authority terminates the incident. In addition, a 3-way conference line will connect Lucas and Ottawa Commissioners and the Governor's Representative. It will also be used to coordinate protective action recommendations and activation of the siren system and EAS. Once notification has been made and communication links are established, a telephone/radio network will be used to expedite agency communications.

- Initial Notification will be received at the Lucas County

Sheriff's Dispatch Center is located at the Emergency Services Building, 2144 Monroe Street, Toledo, OH 43624

**OBJECTIVE 5:      EMERGENCY WORKER EXPOSURE CONTROL**

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

**OBJECTIVE SELECTED**

Offsite Response Organizations:      Oregon Fire Department  
   Lucas County EOC  
   Jerusalem Twp. Vol. Fire Department  
   Lucas County Sheriff's Office  
   Oregon School District Transportation Department

Extent of Play: The Lucas County Radiological Officer will coordinate with Dosimetry Coordinators to monitor exposure of county emergency workers. Each emergency worker will wear assigned dosimetry devices at all times when performing personnel or equipment monitoring and decontamination, when handling radioactive material, and/or whenever an individual is in the 10-mile Emergency Planning Zone during a **SITE AREA EMERGENCY** or a **GENERAL EMERGENCY**. Individuals will be instructed to read their direct-reading dosimetry every thirty minutes or more frequently.

Should the scenario dictate a revised exposure limit, the message will be limited to those emergency workers having a 25R limit initially.

Objective 5 will be demonstrated by appropriate agencies/personnel in conjunction with their RERP assignments out of sequence:

- Jerusalem Township Volunteer Fire Department
- Lucas County Sheriff's Road Deputies
- Oregon Fire Department
- Oregon School District Transportation Department

Advisories from the EOC to field personnel will be simulated due to out of sequence play. Dosimetry packets have been pre-distributed to emergency response organizations.

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

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

**OBJECTIVE NOT APPLICABLE**

**OBJECTIVE 7: PLUME DOSE PROJECTION**

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

**OBJECTIVE NOT APPLICABLE**

**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  $10^{-7}$  (.0000001) microcuries per cubic centimeter in the presence of noble gases and obtain samples of particulate activity in the airborne plume.

**OBJECTIVE NOT APPLICABLE**

**OBJECTIVE 9: PLUME PROTECTIVE ACTION DECISION MAKING**

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

**OBJECTIVE SELECTED**

Offsite Response Organizations: Lucas County EOC (EOC Executive Group)

Extent of Play: Protective action decisions (PADs) will be made in accordance with the RERP and SOPs. The Lucas County Executive Group is responsible for the recommendation and implementation of protective measures for the affected public and emergency workers. When either the Davis-Besse Nuclear Power Station (DBNPS) or the State of Ohio has recommended a protective action, the Lucas County Executive Group will consult with the Ottawa County Commissioners to decide upon a coordinated protective action, the time when the sirens will be activated, and an Emergency Alert System (EAS) message.

**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 and local officials.

## **OBJECTIVE SELECTED**

Offsite Response Organizations: Lucas County EOC Executive Group  
Jerusalem Twp. Fire Department

Extent of Play: Siren activation will be simulated at Site Area Emergency, General Emergency and prior to the announcement of PADS.

Siren #0002 will be identified as having failed at the General Emergency. The Jerusalem Township Volunteer Fire Chief and Route Verification Team Leader will be available for interview Wednesday, May 23, 2001 at 1830 at Jerusalem Township Volunteer Fire Department. One team will demonstrate Back-up Route Alerting in Area 4 out of sequence. PA systems will be demonstrated with a test message at an agreed upon location.

- Jerusalem Township Fire Department  
Back-up Route Alerting in Area 4  
Wednesday, May 23, 2001, 1900 hrs.

## **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 NOT APPLICABLE**

## **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 SELECTED**

Offsite Response Organization: Joint Public Information Center  
Lucas County EOC

Extent of Play: The Executive Group in the EOC will demonstrate the ability to:

- Formulate appropriate messages to the public
- Coordinate dissemination of those messages
- Assure that all elements of the ERO are aware of the messages provided to the public.

In accordance with the RERP and SOPs, the Offsite JPIC will be activated and

staffed by Public Information Officers from Ottawa County, Lucas County, the State, Federal Agencies and the Utility upon declaration of an ALERT. News Releases will be coordinated with briefings held jointly, as appropriate.

Upon arrival the Lucas County PIO will maintain contact with the Public Information Liaison in the Lucas County Emergency Operations Center (EOC) who will serve as the primary contact point for all public information related matters within the Lucas County EOC.

Information from participating local or County agencies in the EOC will be coordinated with the Public Information Liaison. The PIL will provide information to the PIO for development of a joint news statement with Ottawa County and the State, as required.

The PIL will ensure that the Commissioners are aware of information being disseminated to the news media. The PIO will coordinate with the PIL to receive Executive Group approval on news statements affecting Lucas County prior to dissemination 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 SELECTED**

Offsite Response Organizations:                      Joint Public Information Center  
   Lucas County EOC

Extent of Play: In accordance with the RERP and SOPs, establishing and publicizing a rumor control telephone number for the Lucas County EOC will accomplish rumor control. The Rumor Control Officer will be responsible for answering the Lucas County rumor control telephone line and will inform the PIL of rumors. The Public Information Liaison will provide feedback on rumors to the PIO at the JPIC.

One rumor control line shall receive not less than 6 calls per hour for a 2-hour period. Telephone calls shall be placed from a control cell.

The Rumor Control Officer will be responsible for identifying trends. This information will be forwarded to the PIO at 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.

#### **OBJECTIVE SELECTED**

In accordance with the RERP and SOPs, Potassium Iodide (KI) is supplied by the Ohio Department of Health to the Ohio EMA for pre-distribution to offsite response organizations. The Ohio EMA provides a full dose complement of KI tablets for each dosimetry packet of emergency workers with potential to enter the EPZ, thus allowing emergency workers to begin use promptly and voluntarily upon recommendation from the Ohio Dept. of Health. This will be simulated. When the Ohio Department of Health recommends issuance of KI for emergency workers, the County Radiological Officer will coordinate with local agency dosimetry coordinators to implement such a recommendation.

#### **KI WILL NOT BE INGESTED.**

The 10-mile Emergency Planning Zone in Lucas County does not have any institutionalized individuals.

Agencies/Individuals will demonstrate Objective #14 in conjunction with their RERP assignments. Those available for evaluator interviews will include: Oregon School District, Transportation Director and a volunteer bus driver at the Bus Garage at Clay High School, Tuesday May 22, 2001, 1000 hours.

- Jerusalem Township Volunteer Fire Department Dosimetry Coordinator at the Jerusalem Township Volunteer Fire Department, Wednesday, May 23, 2001 at 1830 hours.
- Oregon Fire Department Dosimetry Coordinator at Oregon Fire Department Station #1, Wednesday, May 23, 2001 at 1800 hours.
- Lucas County Sheriff's Road Patrol Tuesday, May 22, 2001 at 1300 hours. (Traffic and Perimeter Control Point 11-6, Veler & Elliston)

#### **OBJECTIVE 15: IMPLEMENTATION OF PROTECTIVE ACTIONS – SPECIAL POPULATIONS**

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

## **OBJECTIVE SELECTED**

Extent of Play: Coordination with the Transportation Director to provide busses and volunteer drivers for the evacuation of the mobility impaired, non-auto owning populations, will be simulated. Demonstration will be by interview: The Oregon School District Transportation Director and a volunteer Bus Driver at the Bus Garage at Clay High School Tuesday, May 22, 2001 at 1000 hours. A bus will not be driven for this 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).

**OBJECTIVE:** N/A There are no Lucas County schools within the EPZ.

## **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 SELECTED**

Offsite Response Organizations: Lucas County Sheriff  
Lucas County Engineer

Extent of Play: In accordance with the RERP and SOPs, Lucas County Sheriff's Office controls major traffic intersections. The Lucas County Sheriff will demonstrate out of sequence and will simulate manning Traffic Control Point and Perimeter/Access Control Point (11-6, Veler & Elliston) at 1300 hours Tuesday, May 22, 2001 Remaining Traffic Control and Perimeter/Access Control Points shall be demonstrated procedurally by interview at the Lucas County EOC by:

- Lucas County Law Enforcement Coordinator
- Lucas County Engineer

## **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 SELECTED**



Offsite Response Organizations:

Oregon Fire Department at Eisenhower Middle  
School Department of Job & Family Services  
ARES/RACES  
Salvation Army  
The American Red Cross

Extent of Play: The Eisenhower Middle School Reception Center, 331 North Curtice Road, will be demonstrated out of sequence on Wednesday, May 23, 2001 at 1900 hours.

Oregon Fire Department will be pre-positioned at Oregon Fire Station #1 at 1800 hours to receive dosimetry and to be dispatched to the Reception Center.

At the Reception Center, one monitoring line, which is one-half of the total required, will be demonstrated. A total of six monitoring surveys will be demonstrated with simulated evacuee(s) provided by the ORO.

Individuals will be monitored at the rate of approximately 4 1/2 minutes per survey. Decisions on the need for decontamination will be made based on Controller interjected radiation levels. One individual will be simulated as contaminated and will be processed through the secondary (decontamination) area. Decontamination will be simulated.

The proper sequence of washing/decontamination efforts and the decisions to refer individuals who cannot be decontaminated to medical facilities will be demonstrated via inquiries.

Contamination control and record-keeping procedures will be demonstrated at the Initial and Secondary monitoring points.

The Department of Job & Family Services under the direction of the Reception Center Manager will demonstrate registration of six evacuees procedurally. Transport of evacuees to the Care Center will be simulated.

ARES/RACES will demonstrate back-up communications between the Reception Center and the Care Center.

A Salvation Army Representative will be available for evaluation by interview.

The American Red Cross Liaison will be available for evaluation by interview.

NOTE: See Controller for current copy of Assessment of Reception and Care Center Requirement and Available Resources Document.

**OBJECTIVE 19: CONGREGATE CARE**

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

**OBJECTIVE SELECTED**

Offsite Response Organization: American Red Cross  
ARES/RACES

Extent of Play: Clay High School, 5665 Seaman Street, will be demonstrated out-of-sequence on Wednesday, May 23, 2001 at 1900 hours. Care Center capabilities to provide food, bedding and other necessities will be demonstrated via documentation from the American Red Cross.

American Red Cross positions that will be participating will include one Care Center Manager, one Registration Worker, one Nurse and one Family Worker.

ARES/RACES will demonstrate back-up communications between the Care Center and the Reception Center.

Care Center Manager will be available for interview at the same time and location as indicated above.

NOTE: See Controller for current ARC letter for additional details on Care Center procedures and capabilities.

**OBJECTIVE 20: MEDICAL SERVICES – TRANSPORTATION**

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

**OBJECTIVE NOT SELECTED**

**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 NOT SELECTED**

**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 NOT SELECTED**

**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 NOT APPLICABLE**

**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 NOT APPLICABLE**

**OBJECTIVE 25: LABORATORY OPERATIONS**

Demonstrate the laboratory operations and procedures for measuring and analyzing samples.

**OBJECTIVE NOT APPLICABLE**

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

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

**OBJECTIVE NOT APPLICABLE**

**OBJECTIVE 27: INGESTION EXPOSURE PATHWAY - PROTECTIVE ACTION IMPLEMENTATION**

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

**OBJECTIVE NOT APPLICABLE**

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

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

## **OBJECTIVE SELECTED**

Extent of Play: Procedure will be demonstrated in a Tabletop Exercise in the EOC facilitated by a Controller at the conclusion of the full-scale RERP Exercise May 22, 2001, one-hour duration. Per Objective 1: In the event that this Commissioner is not available, Ohio Revised Code 305.30 allows for a County Administrator to have the powers of a Commissioner in the time of emergency. An Administrator will participate in the Commissioner's absence.

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

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

## **OBJECTIVE SELECTED**

Extent of Play: Procedure will be demonstrated in a Tabletop Exercise in the EOC facilitated by a Controller at the conclusion of the full-scale RERP Exercise May 22, 2001, one-hour duration. Per Objective 1: In the event that this Commissioner is not available, Ohio Revised Code 305.30 allows for a County Administrator to have the powers of a Commissioner in the time of emergency. An Administrator will participate in the Commissioner's absence.

## **OBJECTIVE 30: CONTINUOUS, 24-HOUR STAFFING**

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

## **OBJECTIVE NOT SELECTED**

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

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

## **OBJECTIVE NOT APPLICABLE**

## **OBJECTIVE 32: UNANNOUNCED EXERCISE OR DRILL**

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

**OBJECTIVE NOT SELECTED** Credit for this Objective was received in 1999.

**OBJECTIVE 33: OFF-HOURS EXERCISE DRILL**

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

**OBJECTIVE NOT SELECTED** Credit for this Objective was received in 1999.

**LOCATIONS OF FIELD ACTIVITIES IDENTIFIED  
IN THE LUCAS COUNTY OBJECTIVES**

**Lucas County Sheriff's Office**  
1622 Spielbusch Avenue  
Toledo, OH 43624  
(419) 213-4916  
Dispatchers: 213-4941/4977  
Major Ron Keel  
Tuesday, May 22, 2001

**Jerusalem Township Vol. Fire Dept.**  
9501 Jerusalem Road (Route 2)  
Curtice, OH 43412  
(419) 836-7302  
Floyd Tefft, Fire Chief  
Wednesday, May 23, 2001  
1830 hours

**Oregon Board of Education**  
5721 Seaman Road  
Oregon, OH 43616  
(419) 693-0661  
Earl Gilliland, Business Agent  
Tuesday, May 22, 2001

**Eisenhower Middle School**  
331 N. Curtice Road  
Curtice, OH 43416  
Mark Verroco, Principal  
Wednesday, May 23, 2001  
1900 hours

**WRVF 101.5 FM**  
125 South Superior Street  
Toledo, OH 43602  
Bill Rossini, Chairman  
NW Ohio Operational Area EAS  
Tues, May 22, 2001 1900 hours

**Salvation Army**  
620 North Erie Street  
Toledo, OH 43609  
Lt. Ricardo Fernandez  
Corps Officer & Area Coordinator

**Clay High School**  
5665 Seaman Road  
Toledo, OH 43416  
(419) 693-0665  
Eric Gordon, Principal  
Wednesday, May 23, 2001  
1900 hours

**Oregon School Bus Garage**  
5721 Seaman Road  
Oregon, OH 43416  
(419) 693-0996  
Vickie Laurell, Director  
Tuesday, May 22, 2001  
1000 hours

**Jerusalem Township Trustees**  
9501 Jerusalem Road  
Curtice, OH 43412  
(419) 836-8921  
Linda Rossler, President  
Tuesday, May 22, 2001

**Joint Public Information Center**  
Edison Plaza, 300 Madison Ave.  
Toledo, OH 43604  
Dennis Gordon, Davis-Besse, JPIC Planner  
(419) 249-5474 or 249-5475  
Tuesday, May 22, 2001

**Oregon Fire Department**  
Seaman & Wynn Roads  
Oregon, OH 43412  
Bill Flannagan, Asst, Chief  
Wed, May 23, 2001

**American Red Cross**  
2275 Collingwood Blvd.  
Toledo, OH 43620  
Scott Davis, Manager  
Dept. of Emergency Services

**Reception Center,  
Eisenhower Middle School  
Wednesday, May 23, 2001, 1900 hours**

**Care Center,  
Clay High School  
Wed, May 23, 2001, 1900 hours**

## APPENDIX 4

### EXERCISE SCENARIO

This appendix contains a summary of the simulated sequence of event – Exercise Scenario – that was used as the basis for invoking emergency response actions by OROs in the Davis-Besse Nuclear Power Station exercise May 22 & 23, 2001.

This exercise scenario was submitted by the State of Ohio, Ottawa and Lucas Counties and Davis-Besse Nuclear Power Station and approved by FEMA Region V May 1, 2001.

- During the exercise, controllers from the State of Ohio, Ottawa and Lucas Counties, and the Davis-Besse Nuclear Power Station 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:

##### DAY ONE

- 0845            Ottawa and Lucas Counties Sheriff's Dispatchers and the State of Ohio Patrol receive notification of the ALERT
- State and County Dispatchers notify key Response agencies.
- 0900            State of Ohio activates their Assessment Room (OEMA, OEPA, ODH, ODS) in the State EOC to monitor the events at the Station. Selected Emergency Responders are Alerted and placed on standby.
- County agencies are notified and key personnel Respond to the county Emergency Operations Centers (EOCs). County and pre-staged State personnel are dispatched to the ECC and JPIC.
- Bus drivers are mobilized (simulated).
- 0930            Emergency Alert System (EAS) brought to an “ALERT” status (simulated).
- The Ottawa County EMA considers closing parklands (Sub area 10) and restricting boating traffic to Sub area 12. (The actual closure of the parklands and restriction of boating will be simulated.)
- State and counties provide news releases as required.
- 1015            Ottawa and Lucas Counties and the State of Ohio receive notification of the SITE ARE EMERGENCY using the dedicated telephone system.



State and County officials notify the Emergency Response Organizations of the change in classification.

State and Counties activate their EOCs and mobilize demonstrated elements of their staffs.

Ottawa and Lucas Counties coordinate times for Siren and EAS/NOAA activation. (Ottawa County is responsible for this activation.) The EAS message and siren activations are (simulated).

Following the simulated siren sounding, Ottawa County may request the Utility verify the siren status. Fire Departments conduct route verification and notify mobile/hearing impaired (simulated).

Ottawa County confirms activation of Sandusky (simulated) and Erie County (simulated) Emergency Response Organizations.

State of Ohio makes a "State of Emergency" declaration.

Closure of Parklands (Sub area 10) and Restricting Boating Traffic (Sub area 12) (If not done at (ALERT) (simulated).

State of Ohio requests FAA restrict airspace (simulated)

State of Ohio restricts rail traffic (simulated).

State of Ohio requests FEMA and DOE assistance (simulated).

Ottawa County relocates Carroll Elementary School ( If not done at ALERT) (Simulated).

Ottawa and Lucas Counties consider precautionary Protective Actions, including relocation of EPZ or Host School populations.

Counties initiate activation of traffic and perimeter control (simulated).

Host counties staff reception and care centers (simulated).

State and counties provide news releases as required.

1245 Ottawa and Lucas Counties and the State of Ohio receive notification of the General Emergency, using the dedicated telephone system.

State and Counties officials notify Emergency Response Organizations of the change in classification.

State and Counties monitor plant conditions.

State of Ohio develops plume dose projections.

Ohio Department of Health (ODH) and Ohio Department of Agriculture (ODA) recommend sheltering of livestock within a 10-mile radius.

State of Ohio coordinates with Ottawa and Lucas Counties in developing Protective Action Recommendations.

Ottawa and Lucas Counties provide protective action decisions to the public. The EAS and siren systems are activated (simulated).

Following the simulated siren sounding, Ottawa County may request the Utility verify the siren status.

Ottawa County evaluates the impact of the failures of sirens 002, 203, 311 and 507 to sound. Adjustments to route alerting are made (simulated).

Ottawa and Lucas Counties conduct back-up route alerting (simulated).

Ottawa and Lucas Counties activate Reception Centers and Emergency Worker Decontamination/Monitoring Stations (simulated).

The American Red Cross opens Care Centers (simulated).

Ottawa County notifies special facilities of evacuation. Ottawa County authorizes relocation of special facilities (simulated).

Ottawa and Lucas Counties assure monitoring of emergency worker exposure.

Counties monitor evacuation routes (simulated).

State and counties provide news releases and are represented at JPIC press briefings.

Ottawa and Lucas Counties implement KI decision, if requested, by ODH.

1430 State and Counties receive notification that the scenario is terminated.  
A short break will be taken. Following the break, self-critiques will be held in each of the participating facilities.

## DAY TWO

0800

- Intermediate phase scenario introduced:
- Assumptions & Initiating Conditions
- Objectives
- Contents of player packets
- Release as of 0600 due to tornado damage causing loss of AC power & subsequent diesel generator malfunction
- Plant is shut down & stable
- Review present met conditions
- Review evacuated sub areas
- Animal Advisory out to 10 miles is in place
- Gamma survey grid request has been made; teams are out collecting data
- Advisories 1A and 2A or 2B are in place

1000

- + 6 Hour Data
- Receive gamma numeric values from Field Team data.
- Federal agencies arrive assembles at the state

1400

+ 10 Hour Data

- AMS (Federal Fly Over-fixed wing) ambient gamma data (500 mR/hour, 10mR/hr, 5mR/hr, & 30uR/hr)
- Federal agencies arrive and assemble at FRMAC/DFO

24 Hours Later

1400

+ 34 Hour Data

- Federal/State counterparts interact.
- AMS (Federal fly over-heli-copter) 30 uR/hr up to 500 mR/hr data
- Federal/State Counterparts interact
- Hot sample results from Lab including Air Samples, Intake Water, Surface Water, Rivers, Grass & Soil

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