



Final Exercise Report

Davis-Besse Nuclear Power Station

Licensee: **FirstEnergy Corporation**

Exercise Date: **June 10, 2003**

Report Date: **September 10, 2003**

**FEDERAL EMERGENCY MANAGEMENT AGENCY
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I. EXECUTIVE SUMMARY

On June 10, 2003, an exercise was conducted in the plume 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 (RERP) and procedures.

The most recent exercise at this site was conducted on May 22-23, 2001. The qualifying emergency preparedness exercise was conducted on March 31, 1987.

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, Lucas and Erie 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 during this exercise. There were no Deficiencies identified during this exercise. There was one Area Requiring Corrective Action (ARCA) identified in Ottawa County as a result of this exercise. The ARCA was assessed against Ottawa County under *Criterion 6.d.1, Transportation and treatment of Contaminated Injured Individuals*. Several instances occurred which increased the potential for contamination spreading beyond the designated Radiological Emergency Area (REA) within the emergency room. A successful re-demonstration of Criterion 6.d.1. took place on August 6, 2003, at Magruder Hospital, thereby correcting this ARCA.

Detailed information this issue is included in Section IV of this report.

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 May 24, 1989. Formal approval of these RERPs was granted by FEMA on March 15, 1991, under 44 CFR 350.

A REP exercise was conducted on June 10, 2003, 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 "Radiological Emergency Preparedness: Exercise Evaluation Methodology," as published in the Federal Register Notice/Vol. 67, No. 80, dated April 25, 2002.

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

Section IV of this report, entitled "Exercise Evaluation and Results," presents detailed information on the demonstration of applicable exercise criteria at each jurisdiction or functional entity evaluated in a jurisdiction-based, issues-only format. This section also contains: (1) 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 June 10, 2003, 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 and Ingestion Emergency Planning Zone Descriptions

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 2000 permanent population of the county is approximately 20, 807. 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 2000 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 June 10, 2003.

STATE OF OHIO

- Ohio Governor's Office
- Ohio Department of Agriculture (ODA)
- Ohio National Guard (ONG)
- Ohio Department of Highway Safety
- Ohio Department of Natural Resources (ODNR)
- Ohio Emergency Management Agency (OEMA)
- Ohio Department of Health (ODH)
- Ohio Environmental Protection Agency (OEPA)
- Ohio Department of Public Safety/State Highway Patrol (OSHP)
- Ohio Department of Transportation (ODOT)

RISK JURISDICTIONS

OTTAWA COUNTY

Emergency Management Agency (EMA)
Ottawa County Highway Department
Ottawa County Commissioners
Ottawa County Sheriff's Department
Ottawa County Engineer
Ottawa County Health Department
United States Coast Guard
Ottawa County Job and Family Services
Ottawa County Fire/EMS Chief Liaison to the EOC
Environmental Protection Agency/ Bowling Green Office
Portage Fire District
Mid-County EMSWRFV 101.5 FM (EAS)
Riverview Nursing Home
Ohio State University Extension Agent
Port Clinton Fire and EMS
Bay Township Fire Department
Port Clinton Police Department
Ottawa County Detention Facility
Woodmore Local School District
Ottawa County Transportation
Ottawa County Early Childhood Center
Ottawa County Department of Transportation (Oak Harbor Garage)
H.B. Magruder Hospital

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
Health Department
Ohio State University Extension
Lucas County Emergency Medical Services
Emergency Services Department
Lucas County Job and Family Services
Toledo/Lucas County Health Department
Medical College of Ohio

Ohio State Highway Patrol (Walbridge Post)

ERIE COUNTY

Board of Erie County Commissioners
Sandusky City Schools
Sandusky Fire Department
Perkins Public School
Erie County Health Department
Erie County Department of Jobs and Family Services

PRIVATE/VOLUNTEER ORGANIZATIONS

American Red Cross
Salvation Army
Amateur Radio Emergency Service (ARES)

C. Exercise Timeline

Table 1, on the following page, presents the time at which key events and activities occurred during the Davis-Besse Nuclear Power Station exercise on June 10, 2003. Also, included are times notifications were made to the participating jurisdictions/functional entities

Table 1. Exercise Timeline

Date and Site: June 10, 2003 – Davis-Besse Nuclear Power Station

Emergency Classification Level	Time Utility Declared	Time that Notification Was Received or Action Was Taken				
		State of Ohio EOC	Ottawa County EOC	Lucas County EOC	JPIC	Emergency Control Center
Unusual Event	N/A	N/A	N/A	N/A	N/A	N/A
Alert	0822	0838	0838	0838	0838	0828
Site Area Emergency	1009	1018	1018	1018	1018	1009
General Emergency	1203	1215	1215	1215	1215	1203
Radiation Release Started	1200	1203	1215	1217	1215	1201
Radiation Release Terminated	1417	1417	1424	1428	1424	1417
Facility Declared Operational		0930	0909	0935	0952	N/A
Declaration of State of Emergency		1030	1020	1020	1046	N/A
Exercise Terminated		1453	1420	1455	1456	N/A
Early Precautionary Decision:						
1. Relocate school children		1024	1025	N/A	1030	N/A
2. Restrict boating traffic		0933	0928	0920	0933	N/A
3. Close parks		0933	0921	0920	0933	N/A
4. Livestock advisory		1024	1030	1038	1033	N/A
Information Only Message		1030	1030	1030	1030	N/A
Siren Activation		N/A	1035	N/A	N/A	N/A
1 st EAS/EBS Message: Information Only		N/A	1038	N/A	1038	N/A
1 st Protective Action Decision: Evacuate Subareas 1, 2, 3, 10, 11, and 12		1223	1223	1223	1225	N/A
2 ^{ns} Siren Activation:		N/A	1230	N/A	N/A	N/A
2 nd EAS/EBS Message:		N/A	1233	N/A	1233	N/A
KI Administration Decision:						
Emergency Workers		1220	1221	1221	1225	N/A
General Public		1220	1223	1223	1225	N/A
Institutionalized Persons		1220	1223	1223	1225	N/A

LEGEND: D – Decision Making Jurisdiction A – Activation 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 June 10, 2003, 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 exercise criteria delineated in FEMA "Radiological Emergency Preparedness: Exercise Evaluation Methodology," as published in the Federal Register Notice/Vol. 67, No. 80, dated April 25, 2002. Detailed information on the exercise criteria and the extent-of-play agreement used in this exercise are found in Appendix 3 of this report.

A. Summary Results of Exercise Evaluation - Table 2

The matrix presented in Table 2, on the following page(s), presents the status of all exercise criteria from the Federal Register Notice Vol. 67, No. 80, dated April 25, 2002 that were scheduled for demonstration during this exercise, by all participating jurisdictions and functional entities. Exercise criteria are listed by number and the demonstration status of those criteria is indicated by the use of the following letters:

- M - Met (No Deficiency or ARCAs assessed and no unresolved 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 June 10, 2003

JURISDICTION/FUNCTIONAL ENTITY	1a1	1b1	1c1	1d1	1e1	2a1	2b1	2b2	2c1	2d1	2e1	3a1	3b1	3c1	3c2	3d1	3d2	3e1	3e2	3f1	4a1	4a2	4a3	4b1	4c1	5a1	5a2	5a3	5b1	6a1	6b1	6c1	6d1	
STATE OF OHIO																																		
Initial Notification Point		M			M																													
State Emergency Operations Center	M	M	M	M	M											M											M					M		
State Assessment Room	M		M			M	M	M	M																									
Joint Public Information Center			M	M																														M
Emergency Control Center										M																								
RISK JURISDICTIONS																																		
OTTAWA COUNTY																																		
Initial Notification Point		M			M																													
Ottawa County Emergency Operations Center	M	M	M	M	M	M										M	M	M	M									M			M	M		
Joint Public Information Center			M	M		M																												M
Route Verification and Backup Route Alerting					M							M	M																				M	M
Monitoring/Decontamination - EW						M						M	M																				M	M
Traffic and Access Control Points										M		M	M																					
Protective Actions-Schools EV-2		M		M																														
Transportation & Treatment of Contaminated Injured Individuals						M							M	M																				A

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Table 2 Summary Results of Exercise Evaluation

Site and Date: Davis-Besse Nuclear Power Station June 10, 2003

JURISDICTION/FUNCTIONAL ENTITY	1a	1b	1c	1d	1e	2a	2b	2c	2d	2e	3a	3b	3c	3d	3e	3f	4a	4a2	4a3	4b	4c	5a	5a2	5a3	5b	6a	6b	6c	6d		
LUCAS COUNTY																															
Initial Notification Point		M	M		M																										
Lucas County Emergency Operations Center	M	M	M	M	M	M	M	M			M	M	M	M	M									M						M	
Joint Public Information Center		M	M	M																										M	
Route Verification and Backup Route Alerting	M	M									M	M																			
Monitoring/Decontamination - EW	M	M									M	M																	M	M	
Traffic and Access Control Points					M						M	M		M																	
Protective Actions-Schools EV-2	M		M										M	M																	
Reception Center		M									M	M																	M		
Congregate Care		M			M																									M	
ERIE COUNTY																															
Reception Center Monitoring/Demonstration		M									M	M																	M		
Congregate Care - Monitoring and Decontamination Vehicles		M									M	M																		M	

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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 criteria 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.
- **Areas Requiring Corrective Action**- Listing of the demonstrated exercise objectives under which one or more ARCAs were assessed during the current exercise or ARCAs assessed during prior exercises 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** – The last two digits of the year the exercise was conducted.
- **Criterion Number** - An alpha and two-digit number corresponding to the criteria numbers in the six Exercise Evaluation Areas described in Federal Register Notice/Vol. 67, No. 80, April 25, 2002, which amends FEMA- REP 14, Radiological Emergency Preparedness Exercise Manual.
- **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 Initial Notification Point

- a. MET: Criteria 1.a.1. and 1.d.1.
- 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 State Emergency Operations Center

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

1.4 Joint Public Information Center

- a. **MET:** Criteria 1.b.1, 1.c.1, and 5.b.1.
- 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

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

RISK JURISDICTION

2.1 OTTAWA COUNTY

2.1.1 Initial Notification County Sheriff's Dispatch

- a. **MET:** Criteria 1.a.1, 1.b.1. and 1.d.1.
- 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 Ottawa County Emergency Operations Center

- a. **MET: Criteria 1.a.1, 1.b.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.2, 2.c.1, 3.a.1, 3.c.1, 3.c.2, 3.d.1, 3.d.2, 5.a.1, 5.a.3. and 5.b.1.**

- b. **DEFICIENCY: NONE**

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: Criteria 1.c.1, 1.e.1. and 5.b.1.**

- 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 Route Verification and Backup Route Alerting

- a. **MET: Criteria 1.d.1, 3.a.1, 3.b.1, 5.a.3. and 5.b.1.**

- 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 Emergency Worker Monitoring/Decontamination

- a. **MET:** Criteria 1.e.1, 3.b.1, 3.c.1, 6.a.1. and 6.b.1.
- 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 and Access Control Points

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

2.1.7. Protective Actions - Schools EV-2

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

2.1.8. Transportation and Treatment of Contaminated Injured Individual

- a. **MET:** Criteria 1.b.1, 1.d.1, 3.a.1. and 3.b.1.
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA):** Criterion 6.d.1.
ISSUE NO.: 18-03-6.d.1.-A-01

CONDITION: Several instances occurred which increased the potential for contamination spreading beyond the designated Radiological Emergency Area (REA) within the emergency room. Individual instances include: gurney wheels rolled off and then back on the clean floor covering; individuals not donned in protective clothing stepped into the buffer zone; and an individual stepped from the contaminated “yellow” area into the clean “white” area.

POSSIBLE CAUSE: A lack of awareness and use of SOPs and posted checklists contributed to the weaknesses in contamination control measures identified.

REFERENCE: NUREG 0654: K.3.a, 3.b., F.2., H.10, K.5.a,b, L.1.,L.4

EFFECT: Contamination potentially spread beyond the REA.

RECOMMENDATION: Additional training on contamination control techniques should be conducted. SOPs and checklists should be utilized during drills and/or actual incidents.

CORRECTIVE ACTION DEMONSTRATED: A successful re-demonstration took place at Magruder Hospital on August 6, 2003, whereby the staff demonstrated appropriate contamination control techniques and knowledge of their Standard Operating Procedures (SOPs).

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

3. RISK JURISDICTION

3.1 LUCAS COUNTY

3.1.1 Initial Notification County Sheriff’s Dispatch

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

3.1.2 Lucas County Emergency Operations Center

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

3.1.3 Joint Public Information Center

- a. **MET:** Criteria 1.b.1, 1.c.1, 1.d.1. and 5.b.1.
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA):** NONE
- d. **NOT DEMONSTRATED:** NONE
- e. **PRIOR ARCAs - RESOLVED:** NONE
- f. **PRIOR ARCAs - UNRESOLVED:** NONE

3.1.4 Route Verification/Back-up Route Alerting

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

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

3.1.5 Monitoring/Decontamination – Emergency Workers

- a. **MET: Criteria 1.a.1, 1.b.1, 3.a.1, 3.b.1, 6.a.1. and 6.b.1.**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA): NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs - RESOLVED: NONE**
- f. **PRIOR ARCAs - UNRESOLVED: NONE**

3.1.6. Traffic and Access Control Points

- a. **MET: Criterion 1.e.1, 3.a.1, 3.b.1. and 3.d.1**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA):**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs - RESOLVED: NONE**
- g. **PRIOR ARCAs - UNRESOLVED: NONE**

3.1.7. Protective Actions - Schools EV-2

- a. **MET: Criteria 1.a.1, 1.c.1, 3.c.1. and 3.c.2.**
- e. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA): NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs - RESOLVED: NONE**

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

3.1.8. Reception Center

- a. **MET: Criteria 1.b.1, 3.a.1, 3.b.1. and 6.a.1.**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA): NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs - RESOLVED: NONE**
- f. **PRIOR ARCAs - UNRESOLVED: NONE**

3.1.9 Congregate Care Center

- a. **MET: Criteria 1.b.1, 1.e.1. and 6.c.1.**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA): NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ARCAs - RESOLVED: NONE**
- f. **PRIOR ARCAs - UNRESOLVED: NONE**

4. RISK JURISDICTION

4.1 ERIE COUNTY

4.1.1. Reception Center Monitoring/Decontamination/Registration of Evacuees

- a. **MET: Criteria 1.b.1, 3.a.1, 3.b. and 6.a.1.**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION (ARCA): NONE**

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

4.1.2. Congregate Care Center – Monitoring and Decontamination Vehicles

- a. **MET: Criteria 1.b.1, 3.a.1, 3.b.1, and 6.c.1.**
- 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 that were used in this report.

CFR	Code of Federal Regulations
CPM	Counts Per Minute
DRD	Direct Reading Dosimeter
EAL	Emergency Action Level
EAS	Emergency Alert System
EBS	Emergency Broadcast System
ECL	Emergency Classification Level
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
EWMSD	Emergency Worker Monitoring and Decontamination Station
FEMA	Federal Emergency Management Agency
FTC	Field Team Coordinator
ft/min	feet per minute
ft ³ /min	cubic feet per minute
GE	General Emergency
GM	Guidance Memorandum
JPIC	Joint Public Information Center
KI	Potassium Iodide
mR	milliroentgen
mR/h	milliroentgen per hour
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

PAD	Protective Action Decision
PAG	Protective Action Guide
PAR	Protective Action Recommendation
PIO	Public Information Officer
ORO	Offsite Response Organizations
RAC	Regional Assistance Committee
RACES	Radio Amateur Civil Emergency Service
RERP	Radiological Emergency Response Plan
R/h	Roentgen(s) per hour
SAE	Site Area Emergency
SEOC	State Emergency Operations Center
TL	Team Leader
TLD	Thermoluminescent Dosimeter

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 June 10, 2003. The letters “(TL)” indicates evaluator Team Leaders after their names. The organization that each evaluator represents is indicated by the following abbreviations:

FEMA - Federal Emergency Management Agency

ICF - Consultants

Exercise Director	William King	FEMA
State Liaison	Terri Connors-Hartman	FEMA

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

Roy Smith	Team Leader	ICF
Carl Bebrich	Evaluator	FEMA
Richard Grundstrom	Evaluator	ICF
Charles Zeppenfeld	Evaluator	ICF
Elizabeth Thompson	Evaluator	ICF

OTTAWA COUNTY

Terri Connors-Hartman	Team Leader	FEMA
Carl Bebrich	Evaluator	FEMA
Cleven Llyod	Evaluator	FEMA
Gary Naskrent	Evaluator	FEMA
Al Henryson	Evaluator	FEMA
Robert Respenda	Evaluator	ICF
Andrew Rogers	Evaluator	ICF
Ed Sachs	Evaluator	ICF
Elizabeth Thompson	Evaluator	ICF

LUCAS COUNTY

Clint Crackel	Team Leader	FEMA
Carl Bebrich	Evaluator	FEMA
Richard Grundstrom	Evaluator	ICF
Al Henryson	Evaluator	FEMA
P.J. Nied	Evaluator	ICF
Robert Respenda	Evaluator	ICF
Andrew Rogers	Evaluator	ICF
Charles Zeppenfeld	Evaluator	ICF
Pat Tenorio	Evaluator	FEMA

ERIE COUNTY

Elizabeth Thompson	Evaluator	ICF
Gary Naskrent	Evaluator	FEMA

APPENDIX 3

EXERCISE CRITERIA AND EXTENT-OF-PLAY AGREEMENT

This appendix lists the exercise criterion that were scheduled for demonstration in the Davis-Besse Nuclear Power Station exercise on June 10, 2003, extent-of-play agreement approved by FEMA Region V on April 14, 2003.

The exercise criterion, contained in FEMA "Radiological Emergency Preparedness Exercise Evaluation Methodology," April 25, 2002, represents 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 criterion are intended for use at all nuclear power plant sites, and because of variations among offsite plans and procedures, an extent-of-play agreement is prepared by the State and approved by FEMA to provide evaluators with guidance on expected actual demonstration of the objectives.

A. Exercise Criteria

Listed below are the specific radiological emergency preparedness extent-of-play for each selected criteria.

DAVIS-BESSE NUCLEAR POWER PLANT
PARTIAL PARTICIPATION EXERCISE

EXTENT OF PLAY AGREEMENT

State of Ohio

JUNE 10, 2003

Criteria that can be re-demonstrated immediately for credit, at the decision of the evaluator, include the following: 3.a.1, 3.d.1, 3.d.2, 6.a.1, 6.b.1, 6.c.1 and 6.d.1. Criteria that may be re-demonstrated, as approved on a case-by-case basis by the Chairperson of the Regional Assistance Committee, include the following: 2.a.1, 2.b.1, 2.b.2, 5.a.1 and 5.b.1.

EVALUATION AREA 1 – EMERGENCY OPERATIONS MANAGEMENT

Sub-Element 1.a.- Mobilization

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

Extent of Play The State Emergency Operations Center (SEOC) and the Ohio Highway Patrol Dispatch Center will receive initial notification over the dedicated phone line. Once the SEOC Assessment Room is activated all dedicated phone communications will be received there. The State will mobilize all the agencies that have responsibilities in the Executive Room, Dose Assessment, Support Services, the Joint Public Information Center, and the Emergency Operations Facility. The Emergency Control Center (EOF) and Joint Public Information Center representatives will be prepositioned.

Sub-element 1.b – Facilities

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

Extent of Play The State of Ohio will demonstrate the availability of facilities to support the accomplishment of emergency operations (e.g., adequate space, furnishings, lighting, restrooms and ventilation).

Sub-element 1.c – Direction and Control

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

Extent of Play Direction and control of state activities will be demonstrated at the SEOC. The Executive Director of Ohio EMA will coordinate decisions on behalf of the Governor's office from the SEOC Executive Room.

Sub-element 1.d – Communications Equipment

Criterion 1.d.1: At least two communication systems are available and operate properly and communication links are established with appropriate locations. Communications capabilities are managed in support of emergency operations.

Extent of Play The primary means of communications between the State EOC and the County EOC, JPIC, and the EOF is by commercial and/or dedicated telephone. Backup communications (radio and/or cellular phones) will be demonstrated.

Sub-element 1.e – Equipment and Supplies to Support Operations

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

Extent of Play The state will demonstrate the use of equipment, maps and displays to support emergency operations. The maps traditionally used in the EOC will be available and used for exercise evaluation purposes.

Evaluation Area 2 – Protective Action Decision Making

Sub-Element 2.a. – Emergency Worker Exposure Control

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

Extent of Play The State EOC Assessment Room staff will recommend protective actions and Administrative Limits, including KI, based on their technical evaluation of the available data. Recommendations will be forwarded to the Ottawa and Lucas County EOCs. County EOCs will disseminate recommendations to their emergency workers.

Sub-element 2.b – Radiological Assessment and Protective Action Recommendations and Decisions for the Plume Phase of the emergency

Criterion 2.b.1: Appropriate protective action recommendations are based on available information on plant conditions, field monitoring data and licensee and ORO dose projections, as well as knowledge of on-site and off-site environmental conditions.

Extent of Play The State EOC Assessment Room will evaluate the licensee information and complete independent dose projections based on that information and simulated field-monitoring data. Assessment Room staff will evaluate the data and forward protective action recommendations to the EOC Executive Room. Approved recommendations will then be forwarded to the Ottawa and Lucas County EOCs via a dedicated conference line established in the Assessment Room.

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

Extent of Play The Governor or his designee will demonstrate the ability to make appropriate protective action decisions based on recommendations from the EOC Assessment Room. Recommendations concerning the use of KI for the general public and emergency workers are the responsibility of the Ohio Department of Health. They are made in the SEOC Dose Assessment Room and will accompany the protective action recommendation.

Coordination will take place in the Executive Room with Ottawa and Lucas Counties to ensure consideration of local needs. The decision is then forwarded to the counties for dissemination to the general public.

Sub-element 2.c – Protective Action Decisions Consideration for the Protection of Special Populations

Criterion 2.c.1: Protective action decisions are made, as appropriate, for special population groups.

Extent of Play N/A - This is a county function.

Sub-element 2.d – Radiological Assessment and Decision Making for the Ingestion Exposure Pathway

Criterion 2.d.1: Radiological consequences for the ingestion pathway are assessed and appropriate protective action decisions are made based on the ORO planning criteria.

Extent of Play The State demonstrated this criterion at the May 2001 DBNPS exercise. It will be demonstrated again at the June 2006 BVPS exercise.

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

Criterion 2.e.1: Timely re-location, re-entry and return decisions are made and coordinated as appropriate, based on assessments of the radiological conditions and criteria in the ORO's plan and/or procedures.

Extent of Play The State demonstrated this criterion at the May 2001 DBNPS exercise. It will be demonstrated again at the June 2006 BVPS exercise.

EVALUATION AREA 3 – PROTECTIVE ACTION IMPLEMENTATION

Sub-element 3.a - Implementation of Emergency Worker Exposure Control

Criterion 3.a.1: The OROs issue appropriate dosimetry and procedures and manage radiological exposure to emergency workers in accordance with the plan and procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart.

Extent of Play The State FMTs, Communications Van and Sample Screening Point will not be demonstrated in this exercise. Ohio State Highway Patrol representatives will participate in the Perimeter/Access Control demonstration in Ottawa County. Their exposure control will be coordinated through the Ottawa County EOC.

Sub-element 3.b – Implementation of KI Decision

Criterion 3.b.1: KI and appropriate instructions are available should a decision to recommend use of KI be made. Appropriate record keeping of the administration of KI for emergency workers and institutionalized individuals (not the general public) is maintained.

Extent of Play The State FMTs, Communications Van and Sample Screening Point will not be demonstrated in this exercise. Implementation will be demonstrated by county responders. Ohio State Highway Patrol representatives will participate in the Perimeter/Access Control demonstration in Ottawa County. Their KI record keeping will be coordinated through the Ottawa County EOC.

Sub-element 3.c – Implementation of Protective Actions for Special Populations

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

Extent of Play N/A - This is a county function.

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

Extent of Play N/A - This is a county function.

Sub-element 3.d – Implementation of Traffic and Access Control

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

Extent of Play The State EOC Dose Assessment Room will procedurally demonstrate restricting air, water and rail traffic within the Emergency Planning Zone. Ohio State Highway Patrol representatives will participate in the Perimeter/Access Control demonstration in Ottawa County. Instructions will be coordinated through the Ottawa County EOC.

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

Extent of Play N/A - This is a county function.

Sub-element 3.e – Implementation of Ingestion Pathway Decisions

Criterion 3.e.1: The ORO demonstrates the availability and appropriate use of adequate information regarding water, food supplies, milk and agricultural production within the ingestion exposure pathway emergency planning zone for implementation of protective actions.

Extent of Play The State demonstrated this criterion at the May 2001 DBNPS exercise. It will be demonstrated again at the June 2006 BVPS exercise.

Criterion 3.e.2: Appropriate measures, strategies and pre-printed instructional material are developed for implementing protective action decisions for contaminated water, food products, milk and agricultural production.

Extent of Play The State demonstrated this criterion at the May 2001 DBNPS exercise. It will be demonstrated again at the June 2006 BVPS exercise.

Criterion 3.f.1: Decisions regarding controlled re-entry of emergency workers and relocation and return of the public are coordinated with appropriate organizations and implemented.

Extent of Play The State demonstrated this criterion at the May 2001 DBNPS exercise. It will be demonstrated again at the June 2006 BVPS exercise.

EVALUATION AREA 4 – FIELD MEASUREMENT AND ANALYSIS

Sub-element 4.a – Plume Phase Field Measurement and Analyses

Criterion 4.a.1: The field teams are equipped to perform field measurements of direct radiation exposure (cloud and ground shine) and to sample airborne radioiodine and particulates.

Extent of Play The State FMTs, Communications Van and Sample Screening Point will not be demonstrated in this exercise.

Criterion 4.a.2: Field teams are managed to obtain sufficient information to help characterize the release and to control radiation exposure.

Extent of Play The State FMTs, Communications Van and Sample Screening Point will not be demonstrated in this exercise. There will be no federal play in this exercise.

Criterion 4.a.3: Ambient radiation measurements are made and recorded at appropriate locations, and radioiodine and particulate samples are collected. Teams will move to an appropriate low background location to determine whether any significant (as specified in the plan and/or procedures) amount of radioactivity has been collected on the sampling media.

Extent of Play The State FMTs, Communications Van and Sample Screening Point will not be demonstrated in this exercise.

Sub-element 4.b–Post Plume Phase Field Measurement and Sampling

Criterion 4.b.1: The field teams demonstrate the capability to make appropriate measurements and to collect appropriate samples (e.g., food crops, milk, water, vegetation, and soil) to support adequate assessments and protective action decision-making.

Extent of Play The State demonstrated this criterion at the May 2001 DBNPS exercise. It will be demonstrated again at the June 2006 BVPS exercise.

Sub-element 4.c – Laboratory Operations

Criterion 4.c.1: The laboratory is capable of performing required radiological analyses to support protective action decisions.

Extent of Play The State demonstrated this criterion at the May 2001 DBNPS exercise. It will be demonstrated again at the June 2006 BVPS exercise.

EVALUATION AREA 5 – EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

Sub-element 5.a – Activation of the Prompt Alert and Notification System

–
Criterion 5.a.1: Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized off-site emergency officials to notify the public of an emergency situation. The initial instructional message to the public must include:

1. Identification of the state or local government organization and the official with the authority for providing the alert signal and instructional message
2. Identification of the commercial nuclear power plant and a statement that an emergency situation exists at the plant
3. Reference to REP-specific emergency information (e.g., brochures and information in telephone books) for use by the general public during an emergency
4. A closing statement asking the affected and potentially affected population to stay tuned for additional information.

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. EAS messages will be prepared by Ottawa County EMA who will provide them to the EAS Station. (See Ottawa County Extent of Play Agreement for further details.)

Criterion 5.a.2: [RESERVED]

Criterion 5.a.3: Activities associated with FEMA approved exception areas (where applicable) are completed within 45 minutes following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. Backup alert and notification of the public is completed within 45 minutes following the detection by the ORO of a failure of the primary alert and notification system.

Extent of Play N/A - This is a county function.

Sub-element 5.b – Emergency Information and Instructions for the Public and Media

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

Extent of Play The State PIO and a representative from the Ohio Department of Health will be present at the JPIC to address protective actions being implemented and the activities taking place at the State and county level. Public information representatives from Ohio EMA will be present in the State EOC to communicate with the JPIC. A Public Inquiry telephone will be established and demonstrated.

EVALUATION AREA 6 – SUPPORT OPERATION/FACILITIES

Sub-element 6.a – Monitoring and Decontamination of Evacuees and Emergency Workers and Registration of Evacuees

Criterion 6.a.1: The reception center/emergency worker facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees and/or emergency workers.

Extent of Play N/A - This is a county function.

Sub-element 6.b – Monitoring and Decontamination of Emergency Worker Equipment

Criterion 6.b.1: The facility/ORO has adequate procedures and resources for the accomplishment of monitoring and decontamination of emergency worker equipment including vehicles.

Extent of Play N/A - This is a county function.

Sub-element 6.c – Temporary care of Evacuees –

Criterion 6.c.1: Managers of congregate care facilities demonstrate that the centers have resources to provide services and accommodations consistent with American Red Cross planning guidelines. Managers demonstrate the procedures to assure that evacuees have been monitored for

contamination and have been decontaminated as appropriate prior to entering congregate care facilities.

Extent of Play N/A - This is a county function.

Sub-element 6.d – Transportation and Treatment of Contaminated Injured Individuals –

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

Extent of Play N/A - This is a county function.

**DAVIS-BESSE NUCLEAR POWER PLANT
PARTIAL PARTICIPATION EXERCISE**

EXTENT OF PLAY AGREEMENT

Ottawa County, Ohio

JUNE 10, 2003

Criteria that can be re-demonstrated immediately for credit, by a decision of the evaluator, include the following: 3.a.1, 3.d.1, 3.d.2, 6.a.1, 6.b.1, 6.c.1 and 6.d.1. Criteria that may be re-demonstrated, as approved on a case-by-case basis by the Chairperson of the Regional Assistance Committee, include following: 2.a.1, 2.b.1, 2.b.2, 5.a.1 and 5.b.1.

EVALUATION AREA 1 – EMERGENCY OPERATIONS MANAGEMENT

Sub-Element 1.a - Mobilization

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

Extent of Play: All agencies identified in the Ottawa County Radiological Emergency Response Plan (RERP) will be alerted as per established procedures. The primary means of notification from Davis-Besse Nuclear Power Station is a dedicated line; therefore, a verification call will not be performed. If a back-up means of communication (commercial phone or 800 MHz radio) is necessary, a verification call will be made. 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

- Bay Township Fire Department
Monday, June 9, 2003 – 1830 hours
- Port Clinton Fire Department
Tuesday, June 10, 2003 – 1830 hours

Backup Route Alerting

- Bay Township Fire Department
Monday, June 9, 2003 – 1830 hours

- Port Clinton Fire Department
Tuesday, June 10, 2003 – 1830 hours

Perimeter/Access Control

- Ohio State Highway Patrol
Tuesday, June 10, 2003 – 0800 hours
- Port Clinton Police Department
Tuesday, June 10, 2003 – 1000 hours

Traffic Control

- Same as above.

Emergency Worker Monitoring/Decontamination

- Portage Fire District
Wednesday, June 11, 2003 – 1830 hours

Schools

- Woodmore Local School District
Tuesday, June 10, 2003 – 0900 hours
- Ottawa County Transportation Agency (OCTA)
Tuesday, June 10, 2003 – 1030 hours
- Ottawa County Early Childhood Center
Tuesday, June 10, 2003 – 1130 hours

Institutionalized/Special Populations

- Ottawa County Detention Facility
Tuesday, June 10, 2003 – 1330 hours

Transportation and Treatment of Contaminated Injured Individuals

- Mid-County EMS at Ottawa County Highway Garage
Wednesday, June 11, 2003 – 1900 hours

Sub-Element 1.b – Facilities

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

Extent of Play: All facilities at the locations listed in Criterion 1.a.1 will be demonstrated.
Backup power will be demonstrated in the EOC prior to EOC activation.

Sub-Element 1.c - Direction and Control

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

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

Sub-Element 1.d – Communications Equipment

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

Extent of Play: Commercial 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 incident is terminated by the appropriate authority. 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

Sub-Element 1.e – Equipment and Supplies to Support Operations

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

Extent of Play: All equipment, displays, supplies, etc. at the locations listed in Criterion 1.a.1 will be demonstrated.

EVALUATION AREA 2 – PROTECTIVE ACTION DECISION MAKING

Sub-Element 2.a – Emergency Worker Exposure Control

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

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.

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

Criterion 2.b.1: Appropriate protective action recommendations are based on available information on plant conditions, field monitoring data, and licensee and ORO dose projections, as well as knowledge of on-site and off-site environmental conditions.

Extent of Play: N/A - Ottawa County does not demonstrate this criterion; it relies on the State of Ohio and on the Davis-Besse Nuclear Power Station.

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

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) for 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.

The Ohio Department of Health (ODH) (through local health departments) makes KI available to the general public by pre-distribution and by distribution at reception centers. The decision to advise the general public to take KI will be based upon the recommendation of ODH.

Sub-Element 2.c – Protective Action Decisions Consideration for the Protection of Special Populations

Criterion 2.c.1: Protective action decisions are made, as appropriate, for special population groups.

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 Ottawa County Detention Facility, at 1330 hours, Tuesday, June 10, 2003.

Sub-Element 2.d - Radiological Assessment and Decision Making for the Ingestion Exposure Pathway

Criterion 2.d.1: Radiological consequences for the ingestion pathway are assessed and appropriate protective action decisions are made based on the ORO planning criteria.

Extent of Play: N/A – Ottawa County relies on the State of Ohio.

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

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

Criterion 2.e.1: Timely re-location, re-entry, and return decisions are made and coordinated as appropriate, based on assessments of radiological conditions and criteria in the OROs plan and/or rocedures.

Extent of Play: Criterion not selected. Successfully demonstrated May, 2001.

EVALUATION AREA 3 – PROTECTIVE ACTION IMPLEMENTATION

Sub-Element 3.a – Implementation of Emergency Worker Exposure Control

Criterion 3.a.1: The OROs issue appropriate dosimetry and procedures and manage radiological exposure to emergency workers in accordance with the plan and procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart.

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.

Criterion 3.a.1 will be demonstrated by appropriate agencies/personnel in conjunction with their RERP assignments.

Bay Township Fire Department
Port Clinton Fire Department
Portage Fire District
Port Clinton Police Department
Ohio State Highway Patrol
Woodmore Local Schools
Ottawa County Transportation Agency
Ottawa County Early Childhood Center
Ottawa County Radiological Officer
Ottawa County Detention Facility
Mid-County EMS

Sub-Element 3.b – Implementation of KI Decision

Criterion 3.b.1: KI and appropriate instructions are available should a decision to recommend use of KI be made. Appropriate record keeping of the administration of KI for emergency workers and institutionalized individuals is maintained.

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 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.**

The Ohio Department of Health (ODH) (through local health departments) makes KI available to the general public by pre-distribution and by distribution at reception centers. The decision to advise the general public to take KI will be based upon the recommendation of ODH. Agencies/Individuals will demonstrate Criterion 3.b.1 in conjunction with their RERP assignments. Those available for evaluator interviews will include:

Bay Township Fire Department

Port Clinton Fire Department
Portage Fire District
Port Clinton Police Department
Ohio State Highway Patrol
Woodmore Local School District
Ottawa County Transportation Agency
Ottawa County Early Childhood Center
Ottawa County Radiological Officer
Ottawa County Detention Facility
Mid-County EMS

Sub-Element 3.c – Implementation of Protective Actions for Special Populations

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

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 the Ottawa County Detention Facility, at 1330 hours, Tuesday, June 10, 2003.

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

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

- Provide notification to local school districts.
- Advise school district superintendents on plant status and recommended response actions.
- Simulate the coordinating of protective actions for schools.
- 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.

The Schools Liaison communicates with the Superintendents' offices. They, in turn, notify district personnel and coordinate district resources. Communications between the Schools Liaison and the Superintendent's offices will be documented.

One bus will be driven from Ottawa County Transportation Agency to Ottawa County Early Childhood Center. The bus will be driven along the prescribed evacuation route from Ottawa County Early Childhood Center to the designated Reception Center at Vanguard Vocational School in Fremont. Vanguard will not participate in the 2003 Exercise. No students will be transported.

Woodmore participants available for interview beginning at 0900 hours, Tuesday, June 10, 2003 include:

- Woodmore Superintendent, Transportation Supervisor/Dosimetry Coordinator and 1 bus driver.

Ottawa County Transportation Agency participants available for interview beginning at 1030 hours, Tuesday, June 10, 2003 include:

- Director, Transportation Supervisor, Dosimetry Coordinator and a Bus Driver

Ottawa County Early Childhood Center personnel available for interview beginning at 1130 hours, Tuesday, June 10, 2003 include:

- Superintendent

Sub-Element 3.d – Implementation of Traffic and Access Control

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

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.

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

Two Traffic/Access Control Points shall be demonstrated:

- 8 – 1: SR 2 and SR 53 (Fremont Road) Ohio State Highway Patrol⁹
- 1 Fremont Road and Portage Drive Port Clinton Police Department

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.

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

- Ohio State Highway Patrol personnel available for interview beginning at 0800 hours, Tuesday, June 10, 2003 include:
- Dosimetry Coordinator and 1 Trooper
- Port Clinton Police personnel available for interview beginning at 1000 hours, Tuesday, June 10, 2003 include:
- Dosimetry Coordinator and 1 road officer

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

Extent of Play: Ottawa County Sheriff's Office, Ottawa County Engineer's Office, Ohio State Highway Patrol and Ohio Department of Transportation Liaisons located in the Ottawa County EOC will demonstrate the capability to: Identify impediments to evacuation. Implement appropriate actions to remove or otherwise deal with impediments. Actual resources will not be utilized.

Sub-Element 3.e. – Implementation of Ingestion Pathway Decisions

Criterion 3.e.1: The ORO demonstrates the availability and appropriate use of adequate information regarding water, food supplies, milk and agricultural production within the ingestion exposure pathway emergency planning zone for implementation of protective actions.

Extent of Play: N/A – Ottawa County relies on the State of Ohio.

Criterion 3.e.2: Appropriate measures, strategies and pre-printed instructional material are developed for implementing protective action decisions for contaminated water, food products, milk, and agricultural production.

Extent of Play: N/A – Ottawa County relies on the State of Ohio.

Sub-Element 3.f – Implementation of Relocation, Re-entry, and Return Decisions

Criterion 3.f.1: Decisions regarding controlled re-entry of emergency workers and relocation and return of the public are coordinated with appropriate organizations and implemented.

Extent of Play: Criterion Not Selected. Successfully demonstrated May, 2001.

EVALUATION AREA 4 – FIELD MEASUREMENT AND ANALYSIS

Sub-Element 4.a – Plume Phase Field Measurement and Analyses

Criterion 4.a.1: The field teams are equipped to perform field measurements of direct radiation exposure (cloud and ground shine) and to sample airborne radioiodine and particulates.

Extent of Play: N/A – Ottawa County relies on the State of Ohio and on the Davis-Besse Nuclear Power Station.

Criterion 4.a.2: Field teams are managed to obtain sufficient information to help characterize the release and to control radiation exposure.

Extent of Play: N/A – Ottawa County relies on the State of Ohio Emergency Management Agency and on the Davis-Besse Nuclear Power Station.

Criterion 4.a.3: Ambient radiation measurements are made and recorded at appropriate locations, and radioiodine and particulate samples are collected. Teams will move to an appropriate low background location to determine whether any significant (as specified in the plan and/or procedures) amount of radioactivity has been collected on the sampling media.

Extent of Play: N/A – Ottawa County relies on the State of Ohio Emergency Management Agency and on the Davis-Besse Nuclear Power Station.

Sub-Element 4.b – Post Plume Phase Field Measurements and Sampling

Criterion 4.b.1: The field teams demonstrate the capability to make appropriate measurements and to collect appropriate samples (for example, food crops, milk, water, vegetation, and soil) to support adequate assessments and protective action decision-making.

Extent of Play: N/A - Ottawa County relies on the State of Ohio Emergency Management Agency.

Sub-Element 4.c – Laboratory Operations

Criterion 4.c.1: The laboratory is capable of performing required radiological analyses to support protective action decisions.

Extent of Play: N/A - Ottawa County relies on the State of Ohio Emergency Management Agency.

EVALUATION AREA 5 – EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

Sub-Element 5.a – Activation of the Prompt Alert and Notification System

Criterion 5.a.1: Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized off-site emergency officials to notify the public of an emergency situation. The initial instructional message to the public must include as a minimum the elements required by current FEMA REP guidance.

Identification of the state or local government organization and the official with the authority for providing the alert signal and instructional message. Identification of the commercial nuclear power plant and a statement that an emergency situation exists at the plant. Reference to REP-specific emergency information (e.g., brochures and information in telephone books) for use by the general public during an emergency. A closing statement asking the affected and potentially affected population to stay tuned for additional information.

Extent of Play: Siren activation will be simulated at Site Area Emergency, General Emergency and prior to the announcement of PADs. Sirens 801 and 093 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 EOC 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 Tuesday, June 10, 2003 Telecommunications devices for the deaf (TTY)s are available for demonstration by the Ottawa County Sheriff's Dispatch and by Public Inquiry.

Criterion 5.a.2: (RESERVED)

Criterion 5.a.3: Activities associated with FEMA approved exception areas (where applicable) are completed within 45 minutes following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. Backup alert and notification of the public is completed within 45 minutes following the detection by the ORO of a failure of the primary alert and notification system.

Extent of Play: Sirens 801 and 093 will be identified as failing at the General Emergency. 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.

Bay Township Fire Department
Monday, June 9, 2003 – 1830 hours

Port Clinton Fire Department
Tuesday, June 10, 2003 – 1830 hours

Sub-Element 5.b – Emergency Information and Instructions for the Public and Media

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

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

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.

A Public Inquiry telephone will be operational and demonstrated.

EVALUATION AREA 6 – SUPPORT OPERATION/FACILITIES

Sub-Element 6.a – Monitoring and Decontamination of Evacuees and Emergency Workers and Registration of Evacuees.

Criterion 6.a.1: The reception center/emergency worker facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees and/or emergency workers.

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), provided KI (if appropriate), registered and assigned to a care center, if necessary.

See Erie County Extent of Play Agreement.

Emergency Worker Monitoring and Decontamination will be demonstrated at the Ottawa County Highway Garage out-of-sequence on Wednesday, June 11, 2003 beginning at 1830 hours, by the Portage Fire District. Personnel will be pre-positioned (with dosimetry) at the Ottawa County Highway Garage.

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.

Sub-Element 6.b – Monitoring and Decontamination of Emergency Worker Equipment

Criterion 6.b.1: The facility/ORO has adequate procedures and resources for the accomplishment of monitoring and decontamination of emergency worker equipment, including vehicles.

Extent of Play: Vehicle monitoring and decontamination will be demonstrated by members of the Portage Fire District at the Ottawa County Highway Garage. 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.

Sub-Element 6.c – Temporary Care of Evacuees

Criterion 6.c.1: Managers of congregate care facilities demonstrate that the centers have resources to provide services and accommodations consistent with American Red Cross planning guidelines. (Found in MASS CARE – Preparedness Operations, ARC 3031) Managers demonstrate the procedures to assure that evacuees have been monitored for contamination and have been decontaminated as appropriate before entering congregate care facilities.

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.

See Erie County Extent of Play Agreement.

Sub-Element 6.d – Transportation and Treatment of Contaminated Injured Individuals

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

Extent of Play: Mid-County EMS will demonstrate assessment and transport of a contaminated, injured individual out of sequence, at the Ottawa County Highway Garage Emergency Worker Monitoring and Decontamination Station on Wednesday, June 11, 2003 at 1900 hours. Mid-County will pre-stage at this location, with dosimetry.

The ORO will provide an individual who will simulate being injured and contaminated. Mid-County will assess the patient for injuries and contamination. Once stabilized, the patient will be prepared for transport, loaded into the squad and transported to H.B. Magruder Hospital. Upon arrival at Magruder Hospital, the patient will be treated and decontaminated by the Radiation Emergency Area (REA) Response Team.

DAVIS-BESSE NUCLEAR POWER PLANT
PARTIAL PARTICIPATION EXERCISE

EXTENT OF PLAY AGREEMENT

Lucas County, Ohio

JUNE 10, 2003

Criteria that can be re-demonstrated immediately for credit, by a decision of the evaluator, include the following: 3.a.1, 3.d.1, 3.d.2, 6.a.1, 6.b.1, 6.c.1, and 6.d.1. Criteria that may be re-demonstrated, as approved on a case-by-case basis by the Chairperson of the Regional Assistance Committee, include the following: 2.a.1, 2.b.1, 2.b.2, 5.a.1 and 5.b.1.

EVALUATION AREA 1 EMERGENCY OPERATIONS MANAGEMENT

Sub-Element 1.a – Mobilization

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

Extent of Play Lucas County will demonstrate the capacity to receive notification of an event at Davis-Besse, and contact, alert, and mobilize key EOC emergency personnel in a timely manner. The immediate use of the EOC will be demonstrated.

Personnel required to process evacuee registration, monitoring, decontamination, emergency worker monitoring, and decontamination, will be pre-positioned out of sequence play at the Reception Center, the Care Center, Oregon Fire, and the Jerusalem Township Fire Department.

The following field organizations will play out of sequence:

- Oregon Fire Department
Wednesday, June 11, 2003 at 1830 hours
- Jerusalem Township Fire Department
Wednesday, June 11, 2003 at 1830 hours
- Lucas County Sheriff's Office Road Patrol
Tuesday, June 10, 2003 at 1300 hours
- Oregon School District Transportation Department
Tuesday, June 10, 2003 at 1000 hours
- Job and Family Services
Wednesday, June 11, 2003 at 1900 hours
- ARES/RACES
Wednesday, June 11, 2003 at 1900 hours
- Salvation Army
Wednesday, June 11, 2003 at 1900 hours
- Red Cross
Wednesday, June 11, 2003 at 1900 hours

Sub-Element 1.b – Facilities

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

Extent of Play Lucas County will demonstrate the ability of the EOC, Reception Center (Eisenhower Middle School), Care Center (Clay High School), Oregon Fire, Oregon School District Transportation Garage, and Jerusalem Township Fire Station to support emergency operations. Emergency power for the EOC will not be demonstrated.

Sub-Element 1.c – Direction and Control

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

Extent of Play Direction and Control will be demonstrated by appropriate participating agencies in accordance with RERP and SOP's.

Sub-Element 1.d – Communications Equipment

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

Extent of Play Commercial 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 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 incident is terminated by the appropriate authority. 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/back-up communication will be available for:
Amateur Radio Emergency Service
Ohio Emergency Management Agency

Sub-Element 1.e – Equipment and Supplies to Support Operations

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

Extent of Play All equipment, and supplies necessary to support emergency operations will be demonstrated. Dosimetry and radiological monitoring equipment records will be available for review.

EVALUATION AREA 2 PROTECTIVE ACTION DECISION MAKING

Sub-Element 2.a – Emergency Worker Exposure Control

Criterion 2.a.1: ORO's use a decision-making process, considering relevant factors and appropriate coordination, to ensure that an exposure control system, including

the use of KI, is in place for emergency workers, including provisions to authorize radiation exposure in excess of administrative limits or protective action guides.

Extent of Play The Lucas County ORO will demonstrate the decision making process in considering exposure control of emergency workers, including the use of KI.

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

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

Criterion 2.b.1: Appropriate protective action recommendations are based on available information on plant conditions, field monitoring data, and Licensee and ORO dose projections as well as knowledge of onsite and offsite environmental conditions.

Extent of Play Not applicable. Lucas County does not demonstrate this criterion. It relies on the State of Ohio and on the Davis-Besse Nuclear Power Station.

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

Extent of Play PAD's will be made in accordance with the RERP and SOP's. The Lucas County Executive Group is responsible for the reviewing the recommendations and implementation of protective measures for the affected public and emergency workers. When a protective action has been recommended by either the Davis-Besse Nuclear Power Station or the State of Ohio, 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.

In accordance with the RERP and SOP's, KI is supplied by the State of Ohio Department of Health to Lucas County for distribution to the general public. The Toledo-Lucas County Health Department will demonstrate KI issuance to a member of the general public.

Sub-Element 2.c – Protective Action Decisions Consideration for the Protection of Special Populations

Criterion 2.c.1: Protective action decisions are made, as appropriate, for special population groups.

Extent of Play There are no special facilities within the Lucas County portion of the EPZ. The ability to make a decision to evacuate the mobility impaired or transportation dependent will be demonstrated in the EOC by the Fire Coordinator by interview.

Sub-Element 2.d – Radiological Assessment and Decision Making for the Ingestion Exposure Pathway

Criterion 2.d.1: Radiological consequences for the ingestion pathways are assessed and appropriate protective action decisions are made based on the ORO's planning criteria.

Extent of Play Not applicable. Lucas County relies on the State of Ohio.

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

Criterion 2.e.1: Timely relocation, reentry, and return decisions are made and coordinated as appropriate, based on assessments of the radiological conditions and criteria in the ORO's plan and/or procedures.

Extent of Play Not selected. This criterion was successfully demonstrated May, 2001.

EVALUATION AREA 3 PROTECTIVE ACTION IMPLEMENTATION

Sub-Element 3.a – Implementation of Emergency Worker Exposure Control

Criterion 3.a.1: The ORO's issue appropriate dosimetry and procedures, and manage radiological exposure to emergency workers in accordance with the plans and procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart.

Extent of Play Emergency workers who are assigned dosimetry will demonstrate the procedures to monitor and record dosimetry readings. The workers may be interviewed by the evaluator to determine their knowledge of radiological exposure control,

radiation exposure limits, turn-back values, and whom to contact in the event authorization is needed to exceed the limits.

Agencies/individuals will be available at the following locations for evaluator interviews:

- Oregon School District, Transportation Director and a volunteer bus driver at the Bus Garage at Clay High School, Tuesday June 10, 2003 at 1000 hours.
- Jerusalem Township Fire Department Dosimetry Coordinator at the Jerusalem Township Fire Department, Wednesday, June 11, 2003 at 1830 hours.
- Oregon Fire Department Dosimetry Coordinator at the Oregon Fire Station #1, Wednesday, June 11, 2003 at 1830 hours.

- Lucas County Sheriff's Road Patrol at the traffic and perimeter control point at the corner of Corduroy Road at Teachout Road and Anchor Point Road (11-2), Tuesday, June 10, 2003 at 1300 hours.

Sub-Element 3.b – Implementation of KI Decesion

Criterion 3.b.1: KI and appropriate instructions are available should a decision to recommend use of KI be made. Appropriate record-keeping of the administration of KI for emergency workers and institutionalized individuals is maintained.

Extent of Play When the Ohio Department of Health recommends the issuance of KI, the County Radiological Officer will coordinate with local agency Dosimetry Coordinators (simulated) to implement such a recommendation. The individual emergency worker maintains a record of the dates and times that he/she takes KI per procedure. KI will not be ingested.

Agencies/individuals will be available at the following locations for evaluator interviews:

- Oregon School District, Transportation Director and a volunteer bus driver at the Bus Garage at Clay High School, Tuesday June 10, 2003 at 1000 hours.
- Jerusalem Township Fire Department Dosimetry Coordinator at the Jerusalem Township Fire Department, Wednesday, June 11, 2003 at 1830 hours.
- Oregon Fire Department Dosimetry Coordinator at the Oregon Fire Station #1, Wednesday, June 11, 2003 at 1830 hours.
- Lucas County Sheriff's Road Patrol at the traffic and perimeter control point at the corner of Corduroy Road at Teachout Road and Anchor Point Road (11-2), Tuesday, June 10, 2003 at 1300 hours.

Lucas County does not have institutionalized individuals within the EPZ.

Sub-element 3.c. – Implementation of Protective Actions for Special Populations

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

Extent of Play There are no special facilities in the EPZ in Lucas County. There are a small number of transportation dependent individuals, and a list with their needs is kept by the Fire Coordinator in the EOC and with the Jerusalem Township Fire Chief. The number of individuals on the list varies, and will be demonstrated by procedure in the EOC.

Coordination with the Transportation Director to provide busses and volunteer drivers for the evacuation of the mobility impaired/transportation dependent populations will be simulated. Demonstration will be by interview.

Oregon School District Transportation Director, and a volunteer bus driver will be at the Bus Garage at Clay High School, Tuesday, June 10, 2003 at 1000 hours. A bus will not be driven for this exercise.

Criterion 3.c.2: ORO's/School Officials Implement Protective Actions For Schools.

Extent of Play This criterion is not applicable. There are no schools in the Lucas County portion of the EPZ.

Sub-element 3.d – Implementation of Traffic and Access Control

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

Extent- of-Play Lucas County Sheriff's Road Patrol will demonstrate this Tuesday, June 10, 2003 at 1300 hours at Traffic and Perimeter Control Point Corduroy Road at Teachout & Anchor Point (11-2). The remaining Traffic Control and Perimeter/Access Control Points shall be demonstrated procedurally at the Lucas County EOC by:

Lucas County Law Enforcement Coordinator
Lucas County Engineer

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

Extent of Play Lucas County Sheriff's Office and Lucas County Engineer's Office will demonstrate the capability to identify impediments to evacuation and implement appropriate actions to remove or otherwise deal with impediments. Actual resources will not be utilized.

Sub-element 3.e – Implementation of Ingestion Pathway Decisions

Criterion 3.e.1: The ORO demonstrates the availability and appropriate use of adequate information regarding water, food supplies, milk, and agricultural production within the ingestion exposure pathway emergency planning zone for implementation of protective actions.

Extent of Play Not applicable. Lucas County relies on the State of Ohio

Criterion 3.e.2: Appropriate measures, strategies, and pre-printed instructional material are developed for implementing protective action decisions for contaminated water, food products, milk, and agricultural production.

Extent of Play Not applicable. Lucas County relies on the State of Ohio.

Sub-Element 3.f – Implementation of Relocation, Re-entry, and Return Decisions

Criterion 3.f.1: Decisions regarding controlled reentry of emergency workers and relocation and return of the public are coordinated with appropriate organizations and implemented.

Extent of Play Not selected. This criterion was successfully demonstrated May, 2001.

EVALUATION AREA 4 FIELD MEASUREMENT AND ANALYSIS

Sub-element 4.a – Plume Phase Field Measurements and Analyses

Criterion 4.a.1: The field teams are equipped to perform field measurements of direct radiation exposure (cloud and ground shine) and to sample airborne radio iodine and particulates.

Extent of Play Not applicable. Lucas County relies on the State of Ohio.

Criterion 4.a.2: Field teams are managed to obtain sufficient information to help characterize the release and to control radiation exposure.

Extent of Play Not applicable. Lucas County relies on the State of Ohio and on the Davis-Besse Nuclear Power Station.

Criterion 4.a.3: Ambient radiation measurements are made and recorded at appropriate locations, and radio iodine and particulate samples are collected. Teams will move to an appropriate low background location to determine whether any significant (as specified in the plan and/or procedures) amount of radioactivity has been collected on the sampling media.

Extent of Play Not applicable. Lucas County relies on the State of Ohio.

Sub-element 4b – Plume Phase Field Measurements and Sampling

Criterion 4.b.1: The field teams demonstrate the capability to make appropriate measurements and to collect appropriate samples (e.g., food crops, milk, water, vegetation, and soil) to support adequate assessments and protective action decision-making.

Extent of Play Not applicable. Lucas County relies on the State of Ohio.

Sub-element 4.c – Laboratory Operations

Criterion 4.c.1: The laboratory is capable of performing required radiological analyses to support protective action decisions.

Extent of Play Not applicable. Lucas County relies on the State of Ohio.

Evaluation Area 5 Emergency Notification And Public Information

Sub-element 5.a – Activation of the Prompt Alert and Notification System

Criterion 5.a.1: Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. The initial instructional message to the public must include as a minimum the elements required by current FEMA REP guidance.

Extent of Play Ottawa County is responsible for EAS activation. Lucas County Executive Group will coordinate with Ottawa County for the time of siren sounding and EAS message to be broadcast.

The Lucas County Executive Group will insure that all elements of the EOC are aware of all EAS messages issued to the public.

Criterion 5.a.2: [RESERVED]

Criterion 5.a.3: Activities associated with FEMA-approved exception areas (where applicable) are completed within 45 minutes following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. Backup alert and notification of the public is completed within 45 minutes following the detection by the ORO of a failure of the primary alert and notification system.

Extent of Play Not demonstrated. This criterion was successfully demonstrated May, 2001.

Sub-element 5.b – Emergency Information and Instructions to the Public and the Media

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

Extent of Play In accordance with the RERP and SOP's, the JPIC will be activated and staffed by Public Information Officers from Ottawa and Lucas Counties, OEMA, and the Utility upon declaration of an ALERT. News releases will be coordinated with briefings held jointly, as appropriate.

Upon arrival at the JPIC, the Lucas County PIO will maintain contact with the Public Information Liaison in the Lucas County EOC who will serve as the primary contact point for all public information related matters within the Lucas County EOC.

Public Inquiry: One (1) Rumor Control Line will be staffed in the Lucas County EOC to provide or obtain accurate information for callers or refer them to the appropriate information source. The Rumor Control Officer will be responsible for identifying trends. This information shall be forwarded to the Public Information Officer at the JPIC.

- Offsite Response Organizations:
- Joint Public Information Center
- Lucas County EOC

Evaluation Area 6 Support Operation/Facilities

Sub-element 6.a. – Monitoring and Decontamination of Evacuees and Emergency Workers, and Registration of Evacuees

Criterion 6.a.1: The reception center/emergency worker facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees and/or emergency workers.

Extent of Play The Eisenhower Middle School Reception Center will be demonstrated out of sequence, Wednesday, June 11, 2003 at 1900 hours. Oregon Fire Department will be pre-positioned at the Oregon Fire Station at 1830 hours to receive dosimetry and to be dispatched to the Reception Center. 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. One locker room will be fully set up and demonstrated. A walk-through of the remaining locker room will be conducted upon request.

The proper sequence of washing/decontaminating 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.

Registration of six (6) evacuees will be demonstrated procedurally by the Department of Job and Family Services under the direction of the Reception Center Manager. Transportation 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 interview.
- A Toledo-Lucas County Health Department representative will be available for interview to answer questions on the issuance of KI to the general public.
- A Red Cross Liaison will be available for interview.
- Vehicle decontamination at the Reception Center will not be demonstrated.

By procedure, Jerusalem Township Fire Department is the primary agency responsible for vehicle monitoring and decontamination at the Reception Center using Oregon Fire Department as back-up support. Jerusalem Township Fire Department will demonstrate this capability at the Jerusalem Fire Station (see Criterion 6.b.1)

Sub-element 6.b – Monitoring and Decontamination of Emergency Worker Equipment

Criterion 6.b.1: The facility/ORO has adequate procedures and resources for the accomplishment of monitoring and decontamination of emergency worker equipment, including vehicles.

Extent of Play Emergency Worker Monitoring and Decontamination will be demonstrated at Jerusalem Township Fire Station. This demonstration will be out of sequence on June 11, 2003 beginning at 1830 hours. For this demonstration dosimetry will be issued. Personnel assignments will be made and facility equipment will then be

set up per procedure. For this demonstration one vehicle will be monitored. A firefighter will be available to answer questions regarding monitoring and decontamination procedures, contamination control and record keeping.

Sub-element 6.c – Temporary Care of Evacuees

Criterion 6.c.1: Managers of congregate care facilities demonstrate that the centers have resources to provide services and accommodations consistent with American Red Cross planning guidelines. (Found in MASS CARE – Preparedness Operations, ARC 3031). Managers demonstrate the procedures to assure that evacuees have been monitored for contamination and have been decontaminated as appropriate prior to entering congregate care facilities.

Extent of Play The Care Center (Clay High School) will be demonstrated out of sequence on Wednesday, June 11, 2003 at 1900 hours. Care Center capabilities to provide food, bedding and other necessities will be demonstrated via documentation from the American Red Cross (ARC). ARC positions that will be participating will include one Care Center Manager, one Registration Worker, one Nurse, and one Family Worker.

RES/RACES will demonstrate back-up communications between the Care Center and the Reception Center. The Care Center Manager will be available for interview at this time.

The following organizations will play out of sequence:

- American Red Cross
Wednesday, June 11, 2003 at 1900 hours
- ARES/RACES
Wednesday, June 11, 2003 at 1900 hours

Sub-element 6.d – Transportation and Treatment of Contaminated and Injured Individuals

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

Extent of Play Criterion not selected.

DAVIS-BESSE NUCLEAR POWER PLANT
PARTIAL PARTICIPATION EXERCISE

EXTENT OF PLAY AGREEMENT

Erie County, Ohio

JUNE 10, 2003

EVALUATION AREA 6 – SUPPORT OPERATION/FACILITIES

Sub-Element 6.a – Monitoring and Decontamination of Evacuees and Emergency Workers and Registration of Evacuees.

Criterion 6.a.1: The reception center/emergency worker facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees and/or emergency workers.

Extent of Play: The Sandusky High School Reception Center, Sandusky, Ohio will be demonstrated out of sequence on Tuesday, June 10, 2003 at 1830 hours. *Monitoring and decontamination will be demonstrated procedurally* by Sandusky Fire Department. The Dosimetry Coordinator will be pre-positioned at Sandusky 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 Bicon Portal Monitor will identify one evacuee to be referred to secondary monitoring. One locker room will be fully set up and demonstrated. A walk-through of the remaining locker room will be conducted upon request.

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. Registration of six evacuees will be demonstrated under the direction of the Reception Center Manager (Erie County Department of Job and Family Services). Transportation of evacuees from the reception center to care centers will not be demonstrated. Participating organizations:

- Sandusky Fire Department
- Erie County Department of Job & Family Services
- Erie County Department of Health

Should the Ohio Department of Health recommend potassium iodide for the general public, KI will be distributed to evacuees by Erie County Department of Health after initial monitoring. Vehicle monitoring/decontamination at the Reception Center will not be demonstrated.

Sub-Element 6.c – Temporary Care of Evacuees

Criterion 6.c.1: Managers of congregate care facilities demonstrate that the centers have resources to provide services and accommodations consistent with American Red Cross planning guidelines. *(Found in MASS CARE – Preparedness Operations, ARC 3031) Managers demonstrate the procedures to assure that evacuees have been monitored for contamination and have been decontaminated as appropriate before entering congregate care facilities.*

Extent of Play: Perkins High School congregate care facility will be demonstrated out of sequence on Tuesday, June 10, 2003 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
- ARES/RACES

APPENDIX 4

EXERCISE SCENARIO

This appendix contains a summary of the simulated sequence of events -- Exercise Scenario -- which was used as the basis for invoking emergency response actions by Offsite Response Organizations in the Davis-Besse Nuclear Power Plant exercise on June 10, 2003.

This exercise scenario was submitted by the State of Ohio and First Energy Company.

During the exercise, controllers from the State of Ohio 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:

0815 Spent resin spill occurs at the Auxiliary Building Train Bay. The Shift Manager makes an emergency classification of an **ALERT** based on Emergency Action Level (EAL) 6.A.1, High Radiation Levels Within The Protected Area. Action is taken to notify station personnel, Ottawa and Lucas Counties, the State of Ohio, and the Nuclear Regulatory Commission (NRC). The station's Emergency Response Organization (ERO) is mobilized. Due to no plant systems being affected, the Shift Manager/Emergency Director maintain the plant at current power levels.

Offsite agencies begin to mobilize their emergency responders. Offsite Emergency Operations Centers (EOCs) partially staff to monitor the emergency situation at Davis-Besse Nuclear Power Station (DBNPS). EOC staff evaluates the need to close the wildlife area (Sub area 10) and to restrict boating traffic on Lake Erie (Sub area 12) Offsite officials are dispatched to the Emergency Control Center/ Emergency Operations Facility at the station and the Joint Public Information Center (JPIC).

0910 #2-2 Reactor Coolant Pump (RCP) vibrations increase. Five minutes later, the #2-2 RCP Seal starts to leak into Containment. As the plant shutdown progresses, the RCP seal fails, increasing RCP seal leakage to greater than 50 gallons per minute.

0915 The fuel rod damage is caused by metal fragments from the Reactor Coolant Pump impeller being forced through coolant channels in the core. Gap activity is released into the reactor coolant.

1015 Minimum Pressurize level for operation (100") is reached. The Operator manually trips the reactor as directed by their *Abnormal Operating* procedure. After the reactor trip, 01 and 02 Startup Transformers fail. This causes a loss of offsite power to the station. With the loss of 01 and 02 Startup Transformers, a Loss of Offsite Power (LOOP) to the station occurs. This causes both of the 13.8 KV busses "A" and "B", to de-energize. The

Emergency Director declares a **SITE AREA EMERGENCY** based on EAL 2.a.3, rcs leakage in excess of 50 cpm and 13.8 KV busses de-energized. In addition to the electrical failure one control rod fails to insert.

The Main Station Exhaust fans do not run due to the LOOP. T limits station vent flow to 15,000 Standard Cubic Feet per minute (SCFM) from the Station Emergency Ventilation Fans.

Offsite EOCs fully activate. The **SITE AREA EMERGENCY** Emergency Alert System message is broadcast and sirens are activated in the 10 mile Emergency Planning Zone. Two (2) sirens in Ottawa County fail to sound. Counties initiate activation of traffic and perimeter control points. Erie County hosts reception and care centers.

The JPIC responds to increasing media interest in the emergency situation in Ottawa County. Rumor Control operators address community inquires. The State of Ohio issues protective actions for dairy animals near the station.

- 1200 Containment fails. The 1-2 Hydrogen Dilution drain (CV201) line breaks in the #4 Mechanical Penetration Room. This releases the Containment radioactive atmosphere into the Auxiliary Building. Area and ventilation monitors detect the radiological release. An offsite release via the station vent is in progress. The ERO evaluates the new data and recommends re-classification to a **GENERAL EMERGENCY** Emergency Action Level (EAL) 1.c.1, Loss of 2 3 Fission Product Barriers with a Potential Loss of the Third or EAL 6.d.6, Projected Radiation Levels at the Site Boundary of Greater than 1 REM/hr Whole Body. The Emergency Director concurs and re-classifies the emergency situation.

The State of Ohio Ottawa and Lucas Counties select a course of action to protect the residents within the 10 mile Emergency Planning Zone (EPZ). An EAS message is prepared and the siren system is activated. Local fire department personnel begin back-up route alerting and law enforcement agencies activate traffic and perimeter control points. Residents near the plant are directed to evacuate to pre-designated reception centers.

- 1215 The wind changes direction. The Dose Assessment staff evaluates the change and recommends a change in the PAR to evacuate Sub areas 1, 2, 3, 10, 11 and 12.
- 1400 OSC repair teams are dispatched to isolate (stop) the radioactive release. After several attempts the repair team is successful in stopping the offsite release.

The exercise is terminated.