



FEMA

JUL 27 2007

Mr. Jim Caldwell
Regional Administrator
U.S. Nuclear Regulatory Commission
Region III
2443 Warrenville Road
Lisle, Illinois 60542-4351

Dear Mr. Caldwell:

Enclosed is one copy of the Final Report for the May 15, 2007, Radiological Emergency Preparedness (REP) Full Participation Plume Exposure Pathway Exercise for the Davis-Besse Nuclear Power Station. Under separate cover, three copies of this report are being sent to the Ohio Emergency Management Agency Radiological Branch Chief for distribution to the counties of Ottawa and Lucas along with an additional copy to the State. The State of Ohio, Ottawa and Lucas Counties, and the utility owner/operator, FirstEnergy Corporation, participated in this exercise. The final exercise report was prepared by the U.S. Department of Homeland Security, FEMA Region V, REP Program staff.

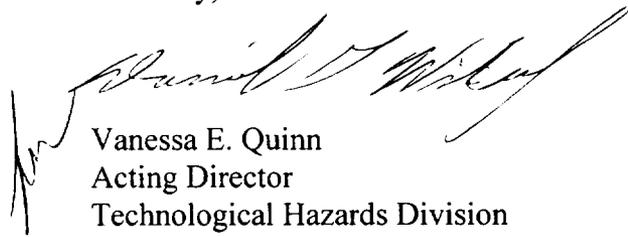
There were no Deficiencies identified during this exercise for the State of Ohio, or for Ottawa or Lucas Counties. There were no Areas Requiring Corrective Actions (ARCAs) identified during this exercise for the State of Ohio or Lucas County. There were two ARCAs identified during this exercise for Ottawa County, one remains unresolved and one was successfully re-demonstrated. FEMA Region V REP Program staff will monitor the correction of the remaining ARCA. Part IV of the final report contains a detailed discussion of the ARCAs and the evaluation results of this exercise.

Based on the results of the May 15, 2007, exercise, the offsite radiological emergency response plans and preparedness for the State of Ohio and the affected local jurisdictions, site-specific to the Davis-Besse Nuclear Power Station, can be implemented and are adequate to provide reasonable assurance that appropriate measures can be taken offsite to protect the health and safety of the public in the event of a radiological emergency at the site. Therefore, the Title 44 CFR, Part 350, approval of the offsite radiological emergency response plans and preparedness for the State of Ohio site-specific to the Davis-Besse Nuclear Power Station, granted on June 15, 1987, remains in effect.

RECEIVED AUG 07 2007

If you should have any questions, please contact William E. King, Chairman, Regional Assistance Committee, DHS/FEMA Region V, at (312) 408-5575.

Sincerely,

A handwritten signature in black ink, appearing to read "Vanessa E. Quinn". The signature is written in a cursive style and is positioned above the typed name and title.

Vanessa E. Quinn
Acting Director
Technological Hazards Division
National Preparedness Directorate

Enclosure
cc: Mr. Anthony McMurtray, Chief
Inspection and Communication Section
U.S. Nuclear Regulatory Commission
Mail Stop O-6H2
Washington, DC 20555-0001

Davis-Besse Nuclear Power Station Exercise – May 15, 2007

Final Report – Radiological Emergency Preparedness Program

July 24, 2007



FEMA

FEMA Region V





FEMA

Final Exercise Report

Davis-Besse Nuclear Power Station

Licensee: FirstEnergy Corporation

Exercise Date: May 15, 2007

Report Date: July 24, 2007

**U.S. DEPARTMENT OF HOMELAND SECURITY
CHICAGO FIELD OFFICE**

**536 South Clark Street – 6th Floor
Chicago, Illinois 60605 - 1521**

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1. Executive Summary

On May 15, 2007, a Radiological Emergency Preparedness (REP) Full Participation Plume Exposure Pathway Exercise was conducted around the Davis-Besse Nuclear Power Station by the Department of Homeland Security/Federal Emergency Management Agency (DHS/FEMA) Region V. The purpose of the exercise was to assess the level of State and local preparedness in responding to a radiological emergency. This exercise was held in accordance with FEMA's policies and guidance concerning the exercise of State and local Radiological Emergency Response Plans (RERPs) and procedures.

The most recent exercise at this site was conducted on May 17, 2005. The qualifying emergency preparedness exercise was conducted on March 31, 1987.

DHS/FEMA wishes to acknowledge the efforts of the many individuals in the State of Ohio and Ottawa and Lucas Counties, who participated in this exercise 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 on the part of all participants was evident during this exercise.

This Final Report contains the evaluation of the biennial exercise and the following out-of-sequence activities:

State Of Ohio

Dosimetry Distribution Point

Sampling Screening Point

Field Monitoring Team #1

Field Monitoring Team #2

Field Monitoring Team Coordinator

Ottawa County

Route Verification/Supplemental Route Alerting and Backup Route Alerting - Harris-Elmore Fire Department & EMS Department
Route Verification/Supplemental Route Alerting and Backup Route Alerting - Portage Fire Department
Route Verification/Supplemental Route Alerting and Backup Route Alerting - Carroll Township Fire & EMS Department
Monitoring/Decontamination of Evacuees - Sandusky High School Reception Center
Registration of Evacuees - Sandusky High School Reception Center
Monitoring/Decontamination of Evacuee Vehicles & Equipment - Sandusky High School Reception Center
Monitoring/Decontamination of Emergency Workers - Port Clinton Fire Department
Monitoring/Decontamination of Emergency Worker Vehicles & Equipment - Port Clinton Fire Department
Temporary Care of Evacuees - Congregate Care - Perkins High School
Medical Services (MS-1) Drill - Transportation - Carroll Township Complex
Medical Services (MS-1) Drill - Facility - Fremont Memorial Hospital

Lucas County

Dosimetry Distribution Point - Oregon Fire Station #1
Monitoring/Decontamination of Evacuees - Eisenhower Middle School Reception Center - Oregon Fire Department
Monitoring/Decontamination of Evacuee Vehicles - Eisenhower Middle School Reception Center - Oregon Fire Department
Registration of Evacuees - Eisenhower Middle School Reception Center - Oregon Fire Department
Monitoring/Decontamination of Emergency Workers - Jerusalem Township Fire Station
Temporary Care of Evacuees - Congregate Care - Clay High School

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 identified for the State of Ohio, Ottawa, or Lucas Counties as a result of this exercise. There were no Areas Requiring Corrective Action (ARCAs) identified for the State of Ohio and Lucas County. There were two ARCAs identified during this exercise for Ottawa County, one remains unresolved and one was successfully re-demonstrated.

The first ARCA for Ottawa County was identified under Criterion 1.e.1, Equipment and Supplies to Support Operations, whereby a Johnson and Associates Model GSM-115 survey meter, serial number 5414, had no calibration label indicating the date the meter was last calibrated or the calibration due date. The GSM-115 was used by the Radiation Protection Technician to survey a (simulated) contaminated individual. This ARCA remains unresolved.

The second ARCA for Ottawa County was identified under Criterion 3.b.1, Implementation of KI Decision, whereby the Health Department Nurse staffing the Registration Center incorrectly stated the dosage of Potassium Iodide (KI) as two tablets per day, whereas there were no procedures available for her to reference, nor could she break the sealed KI packet to read the instructions. Training was conducted at the site for all Registration Center personnel, and at the conclusion of the training, the Nurse correctly stated the correct dosage of one pill per day. This ARCA was successfully re-demonstrated.

A detailed discussion of these issues can be found in Part IV of the Final Report.

2. Introduction

On December 7, 1979, the President directed FEMA to assume the lead responsibility for all offsite nuclear planning and response. DHS/FEMAs 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 DHS/FEMAs 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.

DHS/FEMAs 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 DHS/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 DHS/FEMA Region V Regional Assistance Committee (RAC), which is chaired by DHS/FEMA.

Formal submission of the RERPs for the Davis-Besse Nuclear Power Station to DHS/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 Full Participation Plume Exposure Pathway Exercise was conducted on May 15, 2007, by DHS/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 DHS/FEMA Region V RAC Chairperson and approved by the Regional Director.

The criteria utilized in the DHS/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 Deficiencies and ARCAs assessed during this exercise, recommended corrective actions, and the State and local governments' schedule of corrective actions for each identified exercise issue if applicable and (2) descriptions of resolved ARCAs assessed during previous exercises and the status of the OROs' efforts to resolve them.

3. Exercise Overview

Contained in this section are data and basic information relevant to the May 15, 2007, REP Full Participation Plume Exposure Pathway Exercise to test the offsite response organizations emergency capabilities in the area surrounding the Davis-Besse Nuclear Power Station. This section of the exercise report includes a description of the 10-mile plume pathway Emergency Planning Zone, a listing of all participating jurisdictions and functional entities that were evaluated, and a tabular presentation of the time of the actual occurrence of key exercise events and activities.

3.1. EPZ Description

The Davis-Besse Nuclear Power Station is located in Northwestern Ohio, within Ottawa County, near Carroll Township, immediately north of the Toussaint River on the shore of Lake Erie and 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 U.S. Bureau of Sport Fisheries and Wildlife, forming the Navarre unit of the Ottawa National Wildlife Refuge.

All but four of the 11 Ottawa County townships fall within the 10-mile Emergency Planning Zones (EPZ) of the Davis-Besse Nuclear Power Station plume EPZ. 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.

3.2. Exercise Participants

Agencies and organizations of the following jurisdictions participated in the Davis-Besse Nuclear Power Station exercise:

State Jurisdictions

- Ohio Governors Office
- Ohio Emergency Management Agency (OEMA)
- Ohio Department of Health (ODH)
- Ohio Department of Public Safety/State Highway Patrol (OSHP)
- Ohio Department of Agriculture (ODA)
- Ohio National Guard (ONG)
- Ohio Air National Guard (ONG)

Ohio Department of Natural Resources (ODNR)
Ohio Department of Transportation (ODOT)
Ohio Environmental Protection Agency (OEPA)
Ohio Department of Mental Health (ODMH)
Ohio Department of Insurance (ODI)
Ohio Dept of Job and Family Services
Utilities Commission of Ohio
Ohio State University Extension
Ohio Department of Administrative Services
Ohio Department of Homeland Security
Federal Aviation Administration

Risk Jurisdictions

Ottawa County Emergency Management Agency (EMA)
Ottawa County Commissioners
Ottawa County Sheriff's Department
Ottawa County Highway Department
Ottawa County Engineer
Ottawa County Health Department
Ottawa County Schools Superintendent
Ottawa County Job and Family Services
Ottawa County Fire Department
Ottawa County Fire and Rescue
Port Clinton Fire Department
Harris-Elmore Fire Department
Portage Fire District
Carroll Township Fire & EMS Department
Genoa Area Schools
Benton-Carroll-Salem School District
Riverview Senior Health Care Complex
Lucas County Emergency Management Agency (EMA)
Lucas County Commissioners
Lucas County Engineer
Lucas County Sheriff's Department
Lucas County Health Department
Lucas County Emergency Medical Services
Toledo/Lucas County Health Department
Jerusalem Township Volunteer Fire Department

Support Jurisdictions

- Sandusky High School
- Sandusky Fire Department
- Erie County Department of Health
- Erie County Department of Job and Family Services
- Oregon Fire Department
- Oregon School District Transportation Department

Private Jurisdictions

- American Red Cross
- Salvation Army
- Amateur Radio Emergency Services
- Davis-Besse Nuclear Power Station/First Energy
- Oregon City Schools Transportation Department
- Eisenhower Middle School
- Perkins High School
- Clay High School
- Fremont Memorial Hospital
- EAS Radio Station WRVF
- United States Coast Guard
- RACES

3.3. 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 Plume REP Full Participation Plume Exposure Pathway Exercise conducted on May 15, 2007. Also included are times notifications were made to the participating jurisdictions/functional entities.

TABLE 1. EXERCISE TIMELINE

DATE AND SITE: 5-15-07 Davis-Besse Nuclear Power Station, OH

Emergency Classification Level or Event	Time Utility Declared	Time Decision was Made or Action Taken				
		State of Ohio Assessment Room	SEOC	Ottawa County	Lucas County	Joint Information Center
Unusual Event	N/A	N/A	N/A	N/A	N/A	N/A
Alert	0823	0829	0829	0834	0834	0828
Site Area Emergency	1015	1021	1021	1023	1028	1018
General Emergency	1147	1159	1201	1204	1201	1202
Simulated Radiation Release Started	1145	1147	1147	1204	1201	1202
Simulated Radiation Release Isolated	1347	1347	1347	1347	1347	1400
Facility Declared Operational		0942	0956	0902	0930	0928
Declaration State of Emergency – State		1117	1100	N/A	N/A	N/A
Declaration State of Emergency – County		N/A	N/A	1037	1034	1230
Exercise Terminated		1434	1434	1415	1424	1436
1st Early Precautionary Action Decision: Restrict Boating Traffic and Close Parks		0923	0923	0923	0923	1028
2nd Early Precautionary Action Decision: Livestock Advisory		1015	1015	N/A	N/A	N/A
3rd Early Precautionary Action Decision: Restrict Rail Traffic		1029	N/A	N/A	N/A	N/A
4th Early Precautionary Action Decision: Restrict Air Traffic		N/A	1030	N/A	N/A	N/A
5th Precautionary Action Decision: Relocate School Children		N/A	N/A	1035	1038	N/A
1st Siren Activation		N/A	N/A	1040	1040	N/A
1st EAS Message:		N/A	N/A	1043	1043	N/A
1st Protective Action Recommendation		N/A	1209	N/A	N/A	N/A
1st Protective Action Decision: Evacuate Sub-areas: 1, 2, 10, 12		N/A	N/A	1213	1213	N/A
2 nd Siren Activation:		N/A	N/A	1220	1220	N/A
2 nd EAS Message:		N/A	N/A	1223	1223	N/A
2 nd Protective Action Recommendation			1330	N/A	N/A	N/A
2 nd Protective Action Decision: Evacuate Sub-areas: 1, 2, 3, 10, 11, 12		N/A	N/A	1335	1335	N/A
3 rd Siren Activation		N/A	N/A	1340	1340	N/A
3 rd EAS Message		N/A	N/A	1343	1343	N/A

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4. Exercise Evaluation and Results

Contained in this section are results and findings of the evaluation of all jurisdictions and functional entities that participated in the May 15, 2007, REP Full Participation Plume Exposure Pathway 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 based on its demonstration of exercise criteria delineated in 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.

4.1. Summary Results of Exercise Evaluation

The matrix presented in Table 2, on the following page(s), presents the status of all exercise criteria from Federal Register Notice Vol. 67, No. 80, dated April 25, 2002, which were scheduled for demonstration during this REP Full Participation Plume Exposure Pathway 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)

D - Deficiency assessed

A - ARCA(s) assessed or unresolved ARCA(s) from prior exercise(s)

N - Not Demonstrated (Reason explained in Subsection B)

Blank - Not scheduled for demonstration

Table 2 - Summary of Exercise Evaluation (4 pages)

DATE: 2007-05-15 SITE: Davis-Besse Nuclear Power Station, OH A: ARCA, D: Deficiency, M: Met		State - IWP	State EOC - ER	State EOC - AR	State EOC - OR	State Rad Analyst in Ottawa Co.	State EOF	State DDP	State SSP	SFMT #1	SFMT #2	State FMT Coordinator
Emergency Operations Management												
Mobilization	1a1	M		M	M	M	M					
Facilities	1b1											
Direction and Control	1c1		M	M	M	M	M					
Communications Equipment	1d1	M	M	M	M		M	M	M	M	M	M
Equip & Supplies to support operations	1e1			M	M			M	M	M	M	M
Protective Action Decision Making												
Emergency Worker Exposure Control	2a1		M	M								
Radiological Assessment and PARs	2b1		M	M								
Decisions for the Plume Phase -PADs	2b2		M	M								
PADs for protection of special populations	2c1		M	M								
Rad Assessment and Decision making for the Ingestion Exposure Pathway	2d1											
Rad Assessment and Decision making concerning Relocation, Reentry, and Return	2e1											
Protective Action Implementation												
Implementation of emergency worker exposure control	3a1			M			M	M	M	M	M	M
Implementation of KI decision	3b1			M			M	M	M	M	M	M
Implementation of protective actions for special populations - EOCs	3c1											
Implementation of protective actions for Schools	3c2											
Implementation of traffic and access control	3d1			M								
Impediments to evacuation are identified and resolved	3d2											
Implementation of ingestion pathway decisions - availability/use of info	3e1											
Materials for Ingestion Pathway PADs are available	3e2											
Implementation of relocation, re-entry, and return decisions.	3f1											
Field Measurement and Analysis												
Adequate Equipment for Plume Phase Field Measurements	4a1								M	M		
Field Teams obtain sufficient information	4a2			M				M			M	
Field Teams Manage Sample Collection Appropriately	4a3							M	M	M	M	
Post plume phase field measurements and sampling	4b1											
Laboratory operations	4c1											
Emergency Notification and Public Info												
Activation of the prompt alert and notification system	5a1		M	M		M	M					
Activation of the prompt alert and notification system - Fast Breaker	5a2											
Activation of the prompt alert and notification system - Exception areas	5a3											
Emergency information and instructions for the public and the media	5b1				M	M	M					
Support Operations/facilities												
Mon / decon of evacuees and emergency workers, and registration of evacuees	6a1											
Mon / decon of emergency worker equipment	6b1											
Temporary care of evacuees	6c1											
Transportation and treatment of contaminated injured individuals	6d1											

Table 2 - Summary of Exercise Evaluation (Continued. page 2/4)

DATE: 2007-05-15 SITE: Davis-Besse Nuclear Power Station, OH A: ARCA, D: Deficiency, M: Met												
		INP - Ottawa County	Ottawa County EOC	JIC - Ottawa County	Ottawa Cty Egn - TACP	OC - TACP - OCSO	Ottawa County EV-2 - Genoa Area Schools	Ottawa Cty EV-2 Interview - Benton-Carroll-Salem Sch Dist	Ottawa County - Special Populations	Rte Ver Backup Rte Alerting - Harris-Elmore FD	Ottawa Cty Rte Alert Backup Rte Alert - PFD	Ottawa County Rte Ver Backup Rte Alert- Carroll Twshp Fire
Emergency Operations Management												
Mobilization	1a1	M	M									
Facilities	1b1											
Direction and Control	1c1		M									
Communications Equipment	1d1	M	M	M	M	M	M	M	M	M	M	M
Equip & Supplies to support operations	1e1		M	M	M	M	M	M	M	M	M	M
Protective Action Decision Making												
Emergency Worker Exposure Control	2a1		M									
Radiological Assessment and PARs	2b1											
Decisions for the Plume Phase -PADs	2b2		M									
PADs for protection of special populations	2c1		M					M				
Rad Assessment and Decision making for the Ingestion Exposure Pathway	2d1											
Rad Assessment and Decision making concerning Relocation, Reentry, and Return	2e1		M									
Protective Action Implementation												
Implementation of emergency worker exposure control	3a1		M	M	M	M	M	M	M	M	M	M
Implementation of KI decision	3b1		M	M	M	M	M	M	M	M	M	M
Implementation of protective actions for special populations - EOCs	3c1		M					M				
Implementation of protective actions for Schools	3c2		M			M	M					
Implementation of traffic and access control	3d1		M	M	M							
Impediments to evacuation are identified and resolved	3d2		M									
Implementation of ingestion pathway decisions - availability/use of info	3e1											
Materials for Ingestion Pathway PADs are available	3e2											
Implementation of relocation, re-entry, and return decisions.	3f1		M									
Field Measurement and Analysis												
Adequate Equipment for Plume Phase Field Measurements	4a1											
Field Teams obtain sufficient information	4a2											
Field Teams Manage Sample Collection Appropriately	4a3											
Post plume phase field measurements and sampling	4b1											
Laboratory operations	4c1											
Emergency Notification and Public Info												
Activation of the prompt alert and notification system	5a1		M									
Activation of the prompt alert and notification system - Fast Breaker	5a2											
Activation of the prompt alert and notification system - Exception areas	5a3		M						M	M	M	

Emergency information and instructions for the public and the media	5b1		M	M																
Support Operations/Facilities																				
Mon / decon of evacuees and emergency workers, and registration of evacuees	6a1																			
Mon / decon of emergency worker equipment	6b1																			
Temporary care of evacuees	6c1																			
Transportation and treatment of contaminated injured individuals	6d1																			

Table 2 - Summary of Exercise Evaluation (Continued. page 3/4)

DATE: 2007-05-15 SITE: Davis-Besse Nuclear Power Station, OH A: ARCA, D: Deficiency, M: Met										
		Ottawa Cty Mon/Decon/Evacuees - Sandusky HSRC	Ottawa Cty Reg of Evacs - Sandusky HSRC	Ottawa Cty Mon/Decon Evac Vehs - Sandusky HSRC	Ottawa Cty Mon/Decon FW - Pt Clinton FD	Ottawa Cty Mon/Decon EW Vehs & Equip - Pt Clinton FD	Ottawa Cty CCC - Perkins HS	Ottawa Cty MS-1 Services Drill - Trans - Carrol Twshp	Ottawa Cty MS-1 Services Drill - Treat - Freemont Hosp	LCINP - Sheriff's Dispatch Lucas County - EOC
Emergency Operations Management										
Mobilization	1a1									M M
Facilities	1b1									M
Direction and Control	1c1									M
Communications Equipment	1d1	M	M	M	M	M	M	M	M	M
Equip & Supplies to support operations	1e1	M	M	M	M	M		M	A	M
Protective Action Decision Making										
Emergency Worker Exposure Control	2a1									M
Radiological Assessment and PARs	2b1									
Decisions for the Plume Phase -PADs	2b2									M
PADs for protection of special populations	2c1									M
Rad Assessment and Decision making for the Ingestion Exposure Pathway	2d1									
Rad Assessment and Decision making concerning Relocation, Reentry, and Return	2e1									M
Protective Action Implementation										
Implementation of emergency worker exposure control	3a1	M	M	M	M	M		M	M	M
Implementation of KI decision	3b1	M	M	M	M	M		M	M	M
Implementation of protective actions for special populations - EOCs	3c1									M
Implementation of protective actions for Schools	3c2									M
Implementation of traffic and access control	3d1									M
Impediments to evacuation are identified and resolved	3d2									M
Implementation of ingestion pathway decisions - availability/use of info	3e1									
Materials for Ingestion Pathway PADs are available	3e2									
Implementation of relocation, re-entry, and return decisions.	3f1									M
Field Measurement and Analysis										
Adequate Equipment for Plume Phase Field Measurements	4a1									
Field Teams obtain sufficient information	4a2									
Field Teams Manage Sample Collection Appropriately	4a3									
Post plume phase field measurements and sampling	4b1									
Laboratory operations	4c1									
Emergency Notification and Public Info										
Activation of the prompt alert and notification system	5a1									M
Activation of the prompt alert and notification system - Fast Breaker	5a2									
Activation of the prompt alert and notification system - Exception areas	5a3									
Emergency information and instructions for the public and the media	5b1									M

Support Operations/Facilities										
Mon / decon of evacuees and emergency workers, and registration of evacuees	6a1	M	M	M	M					
Mon / decon of emergency worker equipment	6b1					M				
Temporary care of evacuees	6c1						M			
Transportation and treatment of contaminated injured individuals	6d1							M	M	

Table 2 - Summary of Exercise Evaluation (Continued, page 4/4)

DATE: 2007-05-15 SITE: Davis-Besse Nuclear Power Station, OH A: ARCA, D: Deficiency, M: Met										
	JIC - Lucas	LCDD Point - Oregon School District - Clay HS Bus Garage	Lucas Cnty Sheriff - TACP	LC DDP - Oregon	Lucas Cty Mon/Decon Evac- Eisenhower MS	Mon/Decon/Evac/Vehicle - Eisenhower MS	Lucas Co - Registration of Evacuees - Eisenhower MS	Lucas County EWM/D - Jerusalem FS	State JIC	CCC - I.C. Clay HS
Emergency Operations Management										
Mobilization	1a1								M	
Facilities	1b1									
Direction and Control	1c1								M	
Communications Equipment	1d1	M	M	M	M	M	M	M	M	M
Equip & Supplies to support operations	1e1	M	M	M	M	M	M	M	M	
Protective Action Decision Making										
Emergency Worker Exposure Control	2a1									
Radiological Assessment and PARs	2b1									
Decisions for the Plume Phase -PADs	2b2									
PADs for protection of special populations	2c1		M							
Rad Assessment and Decision making for the Ingestion Exposure Pathway	2d1									
Rad Assessment and Decision making concerning Relocation, Reentry, and Return	2e1									
Protective Action Implementation										
Implementation of emergency worker exposure control	3a1		M	M	M	M	M	M		
Implementation of KI decision	3b1		M	M	M	M	M	M		
Implementation of protective actions for special populations - EOCs	3c1									
Implementation of protective actions for Schools	3c2									
Implementation of traffic and access control	3d1			M						
Impediments to evacuation are identified and resolved	3d2									
Implementation of ingestion pathway decisions - availability/use of info	3e1									
Materials for Ingestion Pathway PADs are available	3e2									
Implementation of relocation, re-entry, and return decisions.	3f1									
Field Measurement and Analysis										
Adequate Equipment for Plume Phase Field Measurements	4a1									
Field Teams obtain sufficient information	4a2									
Field Teams Manage Sample Collection Appropriately	4a3									
Post plume phase field measurements and sampling	4b1									
Laboratory operations	4c1									
Emergency Notification and Public Info										
Activation of the prompt alert and notification system	5a1									
Activation of the prompt alert and notification system - Fast Breaker	5a2									
Activation of the prompt alert and notification system - Exception areas	5a3									
Emergency information and instructions for the public and the media	5b1	M							M	

Support Operations/Facilities										
Mon / decon of evacuees and emergency workers, and registration of evacuees	6a1					M	M	M	M	
Mon / decon of emergency worker equipment	6b1									
Temporary care of evacuees	6c1									M
Transportation and treatment of contaminated injured individuals	6d1									

4.2. 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 are the definitions of the terms used in this subsection relative to criteria demonstration status.

- Met - Listing of the demonstrated exercise criteria 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 criteria 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 criteria 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 criteria which were not demonstrated as scheduled during this exercise and the reason(s) they were not demonstrated.
- Prior ARCAs - Resolved - Descriptions of ARCAs assessed during previous exercises that were resolved in this exercise and the corrective actions demonstrated.
- Prior ARCAs - Unresolved - Descriptions of ARCAs assessed during prior exercises that 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 that 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."

DHS/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 DHS/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.

4.2.1. State Jurisdictions

4.2.1.1. State - Initial Warning Point

- a. MET: 1.a.1, 1.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.2. State - Emergency Operations Center - Executive Room

- a. MET: 1.c.1, 1.d.1, 2.a.1, 2.b.1, 2.b.2, 2.c.1, 5.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.3. State - Emergency Operations Center - Assessment Room

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.1, 2.b.2, 2.c.1, 3.a.1, 3.b.1, 3.d.1, 4.a.2, 5.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.4. State - Emergency Operations Center - Operations Room

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None

- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.5. State - Radiological Analyst in Ottawa County

- a. MET: 1.a.1, 1.c.1, 5.a.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.6. State - Emergency Operations Facility

- a. MET: 1.a.1, 1.c.1, 1.d.1, 3.a.1, 3.b.1, 5.a.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.7. State - Dosimetry Distribution Point (RIMC Facility)

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.8. State - Sampling Screening Point

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 4.a.2, 4.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: None

- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.9. State - Field Monitoring Team #1

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 4.a.1, 4.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.10. State - Field Monitoring Team #2

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 4.a.1, 4.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.11. State - Field Monitoring Team Coordinator

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 4.a.2, 4.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.12. State - Joint Information Center

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None

- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2. Risk Jurisdictions

4.2.2.1. Ottawa County - Initial Notification Point

- a. MET: 1.a.1, 1.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.2. Ottawa County - Emergency Operations Center

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.2, 2.c.1, 2.e.1, 3.a.1, 3.b.1, 3.c.1, 3.c.2, 3.d.1, 3.d.2, 3.f.1, 5.a.1, 5.a.3, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.3. Ottawa County - Joint Information Center

- a. MET: 1.d.1, 1.e.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.4. Ottawa County Engineer - Traffic and Access Control Point

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 3.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.5. Ottawa County Sheriff - Traffic and Access Control Point

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 3.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.6. Ottawa County - (EV-2) School Interview - Genoa Area Schools

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 3.c.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.7. Ottawa County - (EV-2) School Interview - Benton-Carrol-Salem School District

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 3.c.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.8. Ottawa County - Special Populations - Riverview Senior Health Care Campus

- a. MET: 1.d.1, 1.e.1, 2.c.1, 3.a.1, 3.b.1, 3.c.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.9. Ottawa County - Route Verification, Supplemental & Backup Route Alerting - Harris- Elmore Fire Department

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 5.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.10. Ottawa County - Route Verification, Supplemental & Backup Route Alerting - Portage Fire Department

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 5.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.11. Ottawa County - Route Verification, Supplemental & Backup Route Alerting - Carroll

Township Fire & EMS

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 5.a.3.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.12. Ottawa County -

Monitoring/Decontamination of Evacuees -

Sandusky High School Reception Center

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 6.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.13. Ottawa County - Registration of Evacuees -

Sandusky High School Reception Center

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 6.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: 3.b.1.

ISSUE NO.: 18-07-3b1-A-01

ISSUE: KI and appropriate instructions are available should a decision to recommend use of KI be made. Appropriate record keeping of the admin of KI for emergency workers and institutionalized individuals (not general public) is maintained. (NUREG-0654, E.7., J.10.e.f.)

CONDITION: When interviewed, the Erie County Health Department Nurse staffing the Registration Center, incorrectly stated the dosage of KI as two tablets per day. There were no procedures available for her to reference, nor could she break the sealed KI packet to read the instructions.

POSSIBLE CAUSE: A lack of sufficient training and detailed procedures regarding KI recommendations are two possible causes.

REFERENCE: II.J.10.e.

EFFECT: The public may have been given incorrect dosage instructions which could have resulted in an overdosage of KI.

CORRECTIVE ACTION DEMONSTRATED: The Controller at the site conducted training for all Registration Center personnel. At the conclusion of the training the Nurse correctly stated the proper dosage of one pill per day. This successfully re-demonstrated this criterion.

- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.14. Ottawa County - Monitoring/Decontamination of Evacuee Vehicles - Sandusky High School Reception Center

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 6.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.15. Ottawa County - Monitoring/Decontamination of Emergency Worker - Port Clinton Fire Department

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 6.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.16. Ottawa County - Monitoring/Decontamination of Emergency Worker Vehicles & Equipment - Port Clinton Fire Department

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 6.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.17. Ottawa County - Temporary Care of Evacuees - Congregate Care Center - Perkins High School

- a. MET: 1.d.1, 6.c.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.18. Ottawa County - Medical (MS-1) Services Drill - Transportation - Carrol Township Complex

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 6.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None

- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.19. Ottawa County - Medical (MS-1) Services Drill - Treatment - Freemont Memorial Hospital

- a. MET: 1.d.1, 3.a.1, 3.b.1, 6.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: 1.e.1.

ISSUE NO.: 18-07-1e1-A-02

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

CONDITION: A Johnson and Associates Model GSM-115 survey meter, serial number 5414, had no calibration label or record of calibration. The GSM-115 was used by the Radiation Protection Technician to survey the contaminated individual.

POSSIBLE CAUSE: The hospital was unaware of the need for the instrument to be calibrated. The GSM-115 was given to the hospital by the ODH, but ODH takes no responsibility for maintenance or calibration. The hospital Nuclear Medicine Technician stated that she had been told by their health physics consultant, from National Physics Consultants, that as long as the instrument passed its source check, calibration was not required. A source check was demonstrated during the exercise.

REFERENCE: NUREG-0654, H.10

EFFECT: The survey meter may not provide the user with correct contamination readings.

RECOMMENDATION: Calibrate the GSM-115 in accordance with the manufacturer's recommendation and place the GSM-115 in a calibration program to ensure that it is recalibrated as specified by the manufacturer.

SCHEDULE OF CORRECTIVE ACTION: The radiation meter (Johnson and Associates, Model GSM-115), provided to Memorial Hospital by the Ohio Department of Health that was found not to be calibrated, has been moved to the Memorial Nuclear Medicine Department. It has been marked "Do Not Use Until After Calibration". The meter will be stored in the Nuclear Medicine Department with the other radiation meters so it will be part of the physicist's calibration cycle. The next calibration will occur in early August 2007.

A sign has been placed in the storage room (where decontamination supplies are kept) to alert staff of the location of the meter in case it would be needed once it has been calibrated. The physicist maintains the calibration records.

An additional survey meter (Eberline RM-14) supplied by the Davis-Besse Nuclear Power Station (DBNPS) is available in the hospital's storage room and can be used to provide the same function as the Johnson and Associates Model GSM-115. DBNPS maintains the Eberline RM-14 including calibration.

- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.20. Lucas County - Initial Notification Point

- a. MET: 1.a.1, 1.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.21. Lucas County - Emergency Operations Center

- a. MET: 1.a.1, 1.b.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.2, 2.c.1, 2.e.1, 3.a.1, 3.b.1, 3.c.1, 3.c.2, 3.d.1, 3.d.2, 3.f.1, 5.a.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.22. Lucas County - Joint Information Center

- a. MET: 1.d.1, 1.e.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.23. Lucas County - Dosimetry Distribution Point - Oregon City School District - Clay High School Bus Garage

- a. MET: 1.d.1, 1.e.1, 2.c.1, 3.a.1, 3.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.24. Lucas County Sheriff - Traffic and Access Control Point

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 3.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None

- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.25. Lucas County - Dosimetry Distribution Point - Oregon Fire Dept

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.26. Lucas County - Monitoring/Decon of Evacuees - Eisenhower Middle School

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 6.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.27. Lucas County - Monitoring/Decontamination of Evacuee Vehicles - Eisenhower Middle School

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 6.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.28. Ohio - Lucas County Registration of Evacuees - Eisenhower Middle School

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 6.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.29. Lucas County -

Monitoring/Decontamination of Emergency worker -

Jerusalem Township Fire Station

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 6.a.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.30. Lucas County - Temporary Care of

Evacuees - Congregate Care Center- Clay High

School

- a. MET: 1.d.1, 6.c.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. NOT DEMONSTRATED: None
- e. PRIOR ISSUES - RESOLVED: None
- f. PRIOR ISSUES - UNRESOLVED: None

APPENDIX 1

ACRONYMS AND ABBREVIATIONS

ARC	American Red Cross
ARCA	Area Requiring Corrective Action
ARES	Amateur Radio Emergency Services
CFM	Cubic Feet Per Minute
CFR	Code of Federal Regulations
CPM	Counts Per Minute
Cu/Ft/min	cubic feet per minute
DBNPS	Davis-Besse Nuclear Power Station
DHS	Department of Homeland Security
DOT	Department of Transportation
EAL	Emergency Action Level
EAS	Emergency Alert System
EBS	Emergency Broadcast System
EC	Exercise Controller
ECC	Emergency Control Center
ECL	Emergency Classification Level
ED	Executive Director
EEM	Exercise Evaluation Methodology
EMA	Emergency Management Agency
EOC	Emergency Operations Center
EOF	Emergency Operations Facility
EPZ	Emergency Planning Zone
ETA	Estimated Time of Arrival
ETE	Evacuation Time Estimate
EW	Emergency Worker
EWMS	Emergency Worker Monitoring and Decontamination Station
FAA	Federal Aviation Administration
FEMA	Federal Emergency Management Agency
Ft/min	feet per minute
FTC	Field Team Coordinator
GE	General Emergency
GM	Guidance Memorandum
JDF	Joint Dispatch Facility
JIC	Joint 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, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants."
NWS	National Weather Service

OANG	Ohio Air National Guard
ODA	Ohio Department of Agriculture
ODH	Ohio Department of Health
ODNR	Ohio Department of Natural Resources
ODOT	Ohio Department of Transportation
OEMA	Ohio Emergency Management Agency
ONG	Ohio National Guard
ORO	Offsite Response Organization
OSHP	Ohio Department of Public Safety/State Highway Patrol
PAD	Protective Action Decision
PAG	Protective Action Guide
PAR	Protective Action Recommendation
PIO	Public Information Officer
R/h	Roentgen(s) per hour
RAC	Regional Assistance Committee
RACES	Radio Amateur Civil Emergency Service
REA	Radiation Emergency Area
REP	Radiological Emergency Preparedness
RERP	Radiological Emergency Response Plan
RO	Radiological Officer
SAE	Site Area Emergency
SEOC	State Emergency Operations Center
TACP	Traffic Access and Control Point
TL	Team Leader
TLD	Thermoluminescent Dosimeter

APPENDIX 2

EXERCISE EVALUATORS AND TEAM LEADERS

The following is a list of the personnel who evaluated the Davis Bessie Nuclear Power Station REP Full Participation Plume Exposure Pathway exercise on May 15, 2007. Evaluator Team Leaders are indicated by an asterisk "*" before their names. The organization which each evaluator represents is indicated by the following abbreviations:

DHS Department of Homeland Security
ICF ICF Consulting

<u>TITLE</u>	<u>NAME</u>	<u>ORGANIZATION</u>
Radiological Assistance Committee, Chairman	William E. King	DHS/FEMA
Exercise Director	Gary Naskrent	DHS/FEMA
Site Specialist	Carolyn Sturghill	DHS/FEMA

DATE: 2007-05-15, SITE: Davis-Besse Nuclear Power Station, OH

LOCATION	EVALUATOR	AGENCY
State - Initial Warning Point	Mark E. Dalton	ICF
State - Emergency Operations Center - Executive Room	Mark E. Dalton *Carolyn Sturghill	ICF DHS/FEMA
State - Emergency Operations Center - Assessment Room	Marcy Campbell Reggie Rodgers	ICF ICF
State - Emergency Operations Center - Operations Room	Terry Blackmon	ICF
State - Radiological Analyst in Ottawa County	Clinton Crackel Robert Rospenda	DHS/FEMA ICF
State - Emergency Operations Facility	Steve Denson	ICF
State - Dosimetry Distribution Point (RIMC Facility)	Steve Denson	ICF
State - Sampling Screening Point	Marynette Herndon	ICF
State - Field Monitoring Team #1	Adrian Miron	ICF
State - Field Monitoring Team #2	Richard Watts	ICF
State - Field Monitoring Team Coordinator	William B. McRee	ICF
State - Joint Information Center	George R MacDonald	ICF
Ottawa County - Initial Notification Point	Richard Wessman	ICF
Ottawa County - Emergency Operations Center	*Clinton Crackel Delwyn Kinsley Robert Rospenda Richard Wessman	DHS/FEMA DHS/FEMA ICF ICF
Ottawa County - Joint Information Center	George R MacDonald	ICF
Ottawa County Engineer - Traffic and Access Control Point	Lyle Slagle	ICF
Ottawa County Sheriff - Traffic and Access Control Point	Adrian Miron	ICF
Ottawa County - (EV-2) School Interview - Genoa Area Schools	David Petta	ICF
Ottawa County - (EV-2) School Interview - Benton-Carrol-Salem School District	Patrick Taylor	ICF
Ottawa County - Special Populations - Riverview Senior Health Care Campus	Chad Johnston	DHS/FEMA
Ottawa County - Route Verification, Supplemental & Backup Route Alerting - Harris-Elmore Fire Department	Lyle Slagle	ICF
Ottawa County - Route Verification, Supplemental & Backup Route Alerting - Portage Fire Department	Daniel Prevo	ICF
Ottawa County - Route Verification, Supplemental & Backup Route Alerting - Carroll Township Fire & EMS	Daniel Prevo	ICF
Ottawa County - Monitoring/Decontamination of Evacuees - Sandusky High School Reception Center	Ronald Biernacki	ICF
Ottawa County - Registration of Evacuees - Sandusky High School Reception Center	Jeffry McSpaden	U.S. DOT
Ottawa County - Monitoring/Decontamination of Evacuee Vehicles - Sandusky High School Reception Center	William B. McRee	ICF
Ottawa County - Monitoring/Decontamination of Emergency Worker - Port Clinton Fire Department	Richard Watts	ICF
Ottawa County - Monitoring/Decontamination of Emergency Worker Vehicles & Equipment - Port Clinton Fire Department	Marynette Herndon	ICF
Ottawa County - Temporary Care of Evacuees - Congregate Care Center - Perkins High School	Steve Denson	ICF
Ottawa County - Medical (MS-1) Services Drill - Transportation - Carrol Township Complex	Thomas Essig	ICF
Ottawa County - Medical (MS-1) Services Drill - Treatment - Freemont Memorial Hospital	Patrick Taylor	ICF
Lucas County - Initial Notification Point	Sarah Everidge	ICF

Lucas County - Emergency Operations Center	*Carl Bebrich Frank Cordaro Robert Duggleby Sarah Everidge	DHS/FEMA ICF ICF ICF
Lucas County - Joint Information Center	George R MacDonald	ICF
Lucas County - Dosimetry Distribution Point - Oregon City School District - Clay High School Bus Garage	Clark Cofer	ICF
Lucas County Sheriff - Traffic and Access Control Point	Jeffry McSpaden	U.S. DOT
Lucas County - Dosimetry Distribution Point - Oregon Fire Dept	Clark Cofer	ICF
Lucas County - Monitoring/Decon of Evacuees - Eisenhower Middle School	Ronald Biernacki	ICF
Lucas County - Monitoring/Decontamination of Evacuee Vehicles - Eisenhower Middle School	Thomas Essig	ICF
Ohio - Lucas County Registration of Evacuees - Eisenhower Middle School	Chad Johnston	DHS/FEMA
Lucas County - Monitoring/Decontamination of Emergency worker - Jerusalem Township Fire Station	Richard Grundstrom	ICF
Lucas County - Temporary Care of Evacuees - Congregate Care Center- Clay High School	David Petta	ICF
* Team Leader		

APPENDIX 3

EXERCISE CRITERIA AND EXTENT-OF-PLAY AGREEMENT

This appendix lists the exercise criteria that were scheduled for demonstration in the Davis-Besse Nuclear Power Station REP Full Participation Plume Exposure Pathway Exercise on May 15, 2007, and the off-site extent-of-play agreement approved by FEMA Region V, for the State of Ohio.

The exercise criteria, contained in FEMA-REP-15, Radiological Emergency Preparedness Exercise Evaluation Methodology, September 1991, represent a functional translation of the planning standards and evaluation criteria of NUREG-0654/FEMA-REP-1, Rev. 1, Criteria for the Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants, November 1980.

Because the exercise criteria are intended for use at all nuclear power plant sites, and because of variations among off-site plans and procedures, an extent-of-play agreement is prepared by the State and approved by DHS/FEMA to provide evaluators with guidance on expected actual demonstration of the criteria.

A. Exercise Criteria and Extent-of-Play

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

EVALUATION AREA 1: EMERGENCY OPERATIONS MANAGEMENT

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

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

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.

CRITERION 1.d.1: At least two communications 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.

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

EVALUATION AREA 2: PROTECTIVE ACTION DECISION-MAKING

CRITERION 2.a.1: OROs 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.

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.

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).

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

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.

EVALUATION AREA 3: PROTECTIVE ACTION IMPLEMENTATION

CRITERION 3.a.1: The OROs 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.

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.

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

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

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

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

EVALAUTION AREA 4: FIELD MEASUREMENT AND ANALYSIS

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

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

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.

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.

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

EVALUATION AREA 5: EMERGENCY NOTIFICATION & PUBLIC INFORMATION

CRITERION 5.a.1: Activities associated with primary alerting and notification of the public are completed in as 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.

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

EVALUATION AREA 6: SUPPORT OPERATION/FACILITIES

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.

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.

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.

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.

**State of Ohio Extent of Play Agreement
For the
Davis-Besse Nuclear Power Station Exercise
May 15, 2007**

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 OPERATION MANAGEMENT

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

The State Emergency Operations Center (SEOC) and the Ohio Highway Patrol Dispatch Center will receive initial notification over the 24-hour phone line. Once the SEOC Assessment Room is activated all dedicated phone communications will be received there. SEOC personnel will notify and mobilize State agencies to respond at the appropriate Emergency Classification Level (ECL) in accordance with procedures. The following State Agencies will participate in the exercise:

American Red Cross	Ohio Dept of Public Safety/Highway Patrol
Attorney General's Office	Ohio Emergency Management Agency
Governor's Office	Ohio Dept of Mental Health
Ohio Dept of Agriculture	Ohio Dept of Natural Resources
Ohio Dept of Health	Ohio Dept of Transportation
Ohio National Guard	Ohio Environmental Protection Agency
Ohio Dept of Insurance	Ohio Dept of Job and Family Services
Public Utilities Commission of Ohio	Ohio State University Extension
Department of Administrative Services	Ohio Homeland Security

State personnel who staff field positions will be pre-positioned. These functions are:

- Emergency Operations Facility
- Field Monitoring Teams
- Field Sample Screening Point
- Joint Information Center

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

The baseline exercise for demonstration of this criterion was conducted in April 2002. 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).

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.

Direction and control of state activities will be demonstrated at the SEOC. The Executive Director of Ohio EMA will be positioned in the SEOC Executive Room and will coordinate decisions on behalf of the Governor's office. The Operations Branch Director will conduct periodic briefings for the SEOC Operations Room staff. The Ohio Department of Health is responsible for determining the State PAR in the SEOC Assessment Room and will provide periodic briefings.

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

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

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

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

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.

The SEOC Assessment Room staff will consider PAGs and Administrative Limits to develop recommendations, including KI, based on their technical evaluation of the available data and provide to the SEOC Executive Room. Recommendations will be forwarded to the Ottawa and Lucas County EOCs. County EOCs will

disseminate recommendations to their emergency workers. Field monitoring data will be provided to the SEOC Assessment Room via controller injects.

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.

The SEOC Assessment Room will evaluate the licensee information and complete independent dose projections based on that information and controller injected field-monitoring data. Assessment Room staff will evaluate the data and forward protective action recommendations to the SEOC 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).

The Governor or his designee will demonstrate the ability to make appropriate protective action recommendations based on technical information from the SEOC 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 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. After the decision is made, counties will disseminate protective actions to the general public.

At least two (2) Protective Action Decisions will be demonstrated.

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

The recommendation to take KI is developed by the Ohio Department of Health in the Assessment Room and provided to the SEOC Executive Room. It is then forwarded to Ottawa and Lucas Counties for implementation.

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.

The State demonstrated this criterion at the June 2006 BVPS exercise. It will be demonstrated again at the June 2012 PNPP exercise.

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.

The State demonstrated this criterion at the June 2006 BVPS exercise. It will be demonstrated again at the June 2012 PNPP exercise.

EVALUATION AREA 3 – PROTECTIVE ACTION IMPLEMENTATION

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.

The Field Monitoring Teams will be issued dosimetry at the Radiological Instrument Maintenance and Calibration (RIMC) facility located at 1296 Kinnear Rd prior to their departure on May 14 at approximately 0545 hrs.

Direct reading dosimeters will be issued to State of Ohio workers who have assignments in the 10-mile EPZ. The Field Monitoring Team Coordinator will record the exposure of the Field Monitoring Teams and Sample Screening Point. All State field activities are pre-positioned.

If the scenario does not provide for the demonstration of turn back limits, turn back values will be covered by interview with the evaluator.

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.

All emergency workers that are directed to take KI will demonstrate the availability of KI, appropriate instructions, and record keeping in accordance with their procedures/guidelines. No KI will be ingested.

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

N/A - This is a county function.

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

N/A - This is a county function.

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

The SEOC Dose Assessment Room will procedurally demonstrate restricting air, water and rail traffic within the Emergency Planning Zone.

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

N/A - This is a county function.

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.

The State demonstrated this criterion at the June 2006 BVPS exercise. It will be demonstrated again at the June 2012 PNPP 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.

The State demonstrated this criterion at the June 2006 BVPS exercise. It will be demonstrated again at the June 2012 PNPP 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.

The State demonstrated this criterion at the June 2006 BVPS exercise. It will be demonstrated again at the June 2012 PNPP exercise.

EVALUATION AREA 4 – FIELD MEASUREMENT AND ANALYSIS

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.

Two Field Monitoring Teams (FMTs) will participate in the exercise. The teams will be fully equipped to perform field measurements and will function in accordance with their SOPs. Silver zeolite cartridges marked "FTO" (for training only) will be

used to take air samples. Samples will be taken to the Field Sample Screening point, but will not be transported to the lab in Columbus.

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

FMTs will be demonstrated out-of-sequence at 10:00 AM on May 14th. Radiation readings will be provided to the teams by controllers. They will receive information about predicted plume location and direction, travel speed, and exposure control procedures by controller messages to the FMT Coordinator. Controllers will provide FMT radiation readings to the SEOC Assessment Room during the plume phase demonstration.

Chain of Custody will be demonstrated by the use of forms that are filled out by FMTs and passed on to the Sample Screening Point when samples are dropped off.

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.

Measurements will be made by Department of Health/Ohio EMA FMTs in accordance with their Standard Operating Procedures (SOPs). Two mobile monitoring teams will demonstrate ambient radiation monitoring, radioiodine and particulate sampling. FMTs will be equipped with appropriate dosimetry and KI. The FMT Coordinator will direct each team from the Ottawa County EOC. FMTs will perform radiation measurements and air samples. Silver zeolite cartridges marked "FTO" (for training only) will be used to take air samples. Readings will be reported to the FMT Coordinator and samples will be taken to the Sample Screening Point. Evaluators will meet the FMTs at the Fremont Airport at 10:00 AM on May 14th. Controllers will provide FMT radiation readings to the SEOC Assessment Room during the plume phase demonstration.

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.

The State demonstrated this criterion at the June 2006 BVPS exercise. It will be demonstrated again at the June 2012 PNPP exercise.

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

The State demonstrated this criterion at the October 2006 PNPP exercise. It will be demonstrated again at the June 2012 PNPP exercise.

EVALUATION AREA 5 – EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

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:

Identification of the state or local government organization and the official with the authority for providing the alert signal and instructional message:

1. Identification of the commercial nuclear power plant and a statement that an emergency situation exists at the plant
2. Reference to REP-specific emergency information (e.g., brochures and information in telephone books) for use by the general public during an emergency.
3. A closing statement asking the affected and potentially affected population to stay tuned for additional information.

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 activation of the sirens. EAS messages will be prepared by Ottawa County EMA who will provide them to the EAS Station. (See the 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.

N/A - This is a county function.

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

The State PIO and a representative from the Ohio Department of Health will be present at the forward JIC (Toledo) 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 SEOC to communicate with the forward JIC (Toledo).

A Public Inquiry telephone will be established and demonstrated at the SEOC and driven by controller injects. Public Inquiry will address at least 3 calls per hour once Site Area Emergency is declared for two (2) hours. Trends in rumors will be identified and responded to as needed.

EVALUATION AREA 6 – SUPPORT OPERATION/FACILITIES

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.

N/A - This is a county function.

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.

N/A - This is a county function.

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.

N/A - This is a county function.

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.

N/A - This is a county function.

**Ottawa County Extent of Play Agreement
For the
Davis-Besse Nuclear Power Station Exercise
May 15, 2007**

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

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

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 personnel 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 guidelines. 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. Individual agencies rely on telephone and/or radio to contact their personnel according to a predetermined priority call list.

The County EMA Director shall be responsible for EOC activation and operation. The EOC will not normally be activated for an UNUSUAL EVENT. It may be activated for an ALERT at the discretion of the EMA Director. The EOC staff will be fully mobilized at a SITE AREA EMERGENCY or GENERAL EMERGENCY.

The following field activities/facilities will be driven by controller injects and demonstrated out of sequence:

Route Verification/ Supplemental Route Alerting

Harris-Elmore Fire Department
Monday, May 14, 2007 – 1830 hours

Portage Fire District
Monday, May 14, 2007 – 1830 hours

Carroll Township Fire & EMS Departments
Tuesday, May 15, 2007 – 1830 hours

Backup Route Alerting

Harris-Elmore Fire Department
Monday, May 14, 2007 – 1830 hours

Portage Fire District
Monday, May 14, 2007 – 1830 hours

Carroll Township Fire & EMS Departments
Tuesday, May 15, 2007 – 1830 hours

Traffic/Access Control

Ottawa County Engineer – Highway Garage
Tuesday, May 15, 2007 – 0800 hours

Ottawa County Sheriff's Office
Tuesday, May 15, 2007 – 1030 hours

Emergency Worker Monitoring/Decontamination

Port Clinton Fire Department
Tuesday, May 15, 2007 – 1830 hours

Schools

Genoa Area Schools
Tuesday, May 15, 2007 – 0900 hours

Benton-Carroll-Salem Schools
Tuesday, May 15, 2007 – 1100 hours

Reception Center

Sandusky High School
Wednesday, May 16, 2007 – 1830 hours
Care Center

Perkins High School
Monday, May 14, 2007 – 1830 hours

Institutionalized/Special Populations

Riverview Senior Health Care Campus
Tuesday, May 15, 2007 – 1300 hours

Contaminated Injured

Carroll Township EMS
Monday, May 14, 2007 – 0730 hours

Fremont Memorial Hospital
Monday, May 14, 2007 – 0900 hours

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

N/A. Baseline established in 2005.

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.

Direction and Control will be demonstrated by appropriate participating agencies in accordance with RERP and SOGs.

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.

All communications equipment at the locations listed in Criterion 1.a.1 will be demonstrated. 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 is made on a 4-Way dedicated telephone line that connects Davis-Besse, State of Ohio, Ottawa County and Lucas County. Upon activation of the County EOC, the 4-way dedicated (conference style) telephone hook-up will connect the Davis-Besse

Emergency Operating Facility (EOF), the Ottawa County EOC, Lucas County EOC and the Ohio EOC. 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 demonstration by:

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

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

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

Sufficient quantities of direct-reading and permanent record dosimetry and dosimeter chargers are available for issuance to emergency workers. Dosimetry and KI have been pre-distributed to ORO's (see 3.a.1 and 3.b.1). Available supplies of KI will be within the expiration date indicated on KI bottles or blister packs.

The letter identifying completion of the periodic requirements (identifying equipment calibration dates and KI expiration dates) will be provided to FEMA at the evaluators' pre-exercise meeting. Letters authorizing extension of the KI expiration date will also be provided.

Monitoring kits and Dosimetry are exchanged annually; the documentation is included in the 2007 Annual Letter of Certification.

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. EOC Liaisons for the Ohio Department of Transportation, Ottawa County Engineer and Ottawa County Sheriff will discuss equipment and supplies to support Traffic and Access Control.

EVALUATION AREA 2 – PROTECTIVE ACTION DECISION MAKING

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.

The Ottawa County Radiological Officer (RO) 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 disseminated to dosimetry coordinators by the RO.

Provisions to authorize radiation exposure in excess of administrative limits or PAGs will be discussed. Discussion will be driven by controller inject.

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

The Ohio Department of Health recommends the use of KI.

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

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.

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).

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

The decision to advise the general public to take KI will be based upon the recommendation of ODH.

The county will demonstrate the capability to communicate the contents of PADs with affected jurisdictions. The number of PADs will be dependent on the scenario, however, at least two (2) will be demonstrated. The initial PAD will likely be at the SAE.

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

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

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

Appropriate protective actions for institutionalized/special needs shall be demonstrated at Riverview Senior Health Care Campus at 1300 hours, Tuesday, May 15, 2007.

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.

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

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 procedures.

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

Criterion 2.e.1. Will be demonstrated by members of the PAOC in accordance with the RERP and SOGs on Tuesday, May 15, 2007, approximately 30 minutes after the plume/emergency phase of the exercise has been terminated.

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

EVALUATION AREA 3 – PROTECTIVE ACTION IMPLEMENTATION

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.

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 disseminated to dosimetry coordinators by the RO.

Advisories from the EOC to field personnel will be simulated via controller inject 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.

Benton-Carroll-Salem Schools
Carroll Township Fire and EMS
Erie County Department of Health
Erie County Department of Job and Family Services
Genoa Area Schools
Harris-Elmore Fire and EMS
Ottawa County Engineer-Highway Garage
Ottawa County Radiological Officer
Ottawa County Sheriff's Office
Port Clinton Fire Department
Portage Fire District
Riverview Senior Health Care Campus
Sandusky Fire Department

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.

In accordance with the RERP and SOGs, 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:

Benton-Carroll-Salem Schools
Carroll Township Fire and EMS
Erie County Department of Health
Erie County Department of Job and Family Services
Genoa Area Schools
Harris-Elmore Fire and EMS
Ottawa County Engineer-Highway Garage
Ottawa County Radiological Officer
Ottawa County Sheriff's Office
Port Clinton Fire Department
Portage Fire District
Riverview Senior Health Care Campus
Sandusky Fire Department

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

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 Riverview Senior Health Care Campus at 1300 hours, Tuesday, May 15, 2007.

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

In accordance with the RERP and SOGs, 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, transportation dependent 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 Superintendents' offices will be documented.

Fremont Ross High School will not participate in the 2007 Exercise. No students will be transported.

Genoa Area Schools participants available for interview at the Genoa Board of Education Office beginning at 0900 hours, Tuesday, May 15, 2007, include:

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

Benton-Carroll-Salem participants available for interview at the Benton-Carroll-Salem Board of Education Office beginning at 1100 hours, Tuesday, May 15, 2007, include:

Superintendent, Transportation Supervisor / Dosimetry Coordinator and a Bus Driver

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

In accordance with the RERP and SOGs, 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:

2-14 CR 98 (Salem-Carroll Road) and
CR 104 (Toussaint South Road)
Ottawa County Engineer – Highway Garage
6-2 SR 2 and State Route 358
Ottawa County Sheriff's Office

Those pre-designated 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 access 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 Access Control Points shall be demonstrated procedurally at the Ottawa County EOC by:

Ottawa County Sheriff Liaison
Ottawa County Engineer Liaison
Ohio Department of Transportation Liaison
Ohio State Highway Patrol Liaison

Ottawa County Engineer – Highway Garage personnel available for interview beginning at 0800 hours, Tuesday, May 15, 2007, include:

Highway Superintendent, Dosimetry Coordinator and 1 Driver

Ottawa County Sheriff's Office personnel available for interview beginning at 1030 hours, Tuesday, May 15, 2007, include: Chief Deputy, Dosimetry Coordinator and 1 Road Officer

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

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.

Controller injects will identify impediment(s) that will impact an evacuation route and necessitate re-routing traffic and drive further discussion. Actual resources will not be utilized.

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.

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.

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

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.

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

Criterion 3.f.1 will be demonstrated by members of the PAOC in accordance with the RERP and SOGs on Tuesday, May 15, 2007, approximately 30 minutes after the plume/emergency phase portion of the exercise has been terminated.

Ottawa County Commissioners
Ottawa County Emergency Management
Ottawa County Sheriff
Ottawa County Engineer
Ottawa County Radiological Officer
Ottawa County Health Department

Ottawa County Public Information
Ohio State University Extension Agent
Fire/EMS Liaison
Local Government Liaisons (as appropriate)
OEMA Resident Radiological Analyst

EVALUATION AREA 4 – FIELD MEASUREMENT AND ANALYSIS

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.

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.

N/A – Ottawa 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 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.

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

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.

N/A - Ottawa County relies on the State of Ohio

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

N/A - Ottawa County relies on the State of Ohio

EVALUATION AREA 5 – EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

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.

Siren activation will be simulated at Site Area Emergency, General Emergency and prior to the announcement of PADs.

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

NOAA will be contacted. 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. 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. EAS messages will be recorded but not broadcast.

WRVF 101.5 FM Radio
Tuesday, May 15, 2007

Text telephones (TTY/TDD) 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.

Sirens 203, 311 and 507 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.

Harris-Elmore Fire Department
Monday, May 14, 2007 – 1830 hours

Portage Fire District
Monday, May 14, 2007 – 1830 hours

Carroll Township Fire & EMS
Tuesday, May 15, 2007 – 1830 hours

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

EAS messages will be prepared and provided to the LP 1. EAS messages will be recorded but not broadcast.

WRVF 101.5 FM Radio

In accordance with the RERP and SOGs, the JIC 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

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.

In accordance with the RERP and SOGs, 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, provided KI (if appropriate), registered and assigned to a care center (if necessary).

The evacuee portion of this criterion shall be demonstrated at the Sandusky High School Reception Center, Sandusky, Ohio, out of sequence on Wednesday, May 16, 2007, 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.

Evacuee vehicle monitoring/decontamination at the Reception Center will not be physically demonstrated. Members of the Sandusky Fire Department will demonstrate monitoring / decontamination via interview.

Emergency Worker Monitoring and Decontamination will be demonstrated at the Port Clinton Fire Station out-of-sequence on Tuesday, May 15, 2007, beginning at 1830 hours, by the Port Clinton Fire Department.

The ORO will provide individuals to be simulated Emergency Workers returning from a field assignment. One Emergency Worker will be identified as contaminated 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.

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.

Emergency worker vehicle monitoring and decontamination will be demonstrated by members of the Port Clinton Fire Department at the Port Clinton Fire Station. The vehicle monitoring and decontamination area will be set up as per guideline. One vehicle will be monitored but not decontaminated. A firefighter will be available to answer questions regarding monitoring and decontamination guidelines, contamination control and record-keeping.

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.

Perkins High School congregate care facility will be demonstrated via interview out of sequence on Monday, May 14, 2007, at 1830 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.

Participating organizations:

American Red Cross
ARES/RACES

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.

Carroll Township EMS will demonstrate assessment and transport of a contaminated, injured individual at the Carroll Township Complex, out-of-sequence, on Monday, May 14, 2007, beginning at 0730 hours.

The ORO will provide an individual who will simulate being an injured and contaminated member of a State Field Monitoring Team. Carroll Township EMS will assess the patient for injuries and contamination. Once stabilized, the patient will be prepared for transport, loaded onto the squad and be transported to Fremont Memorial Hospital. Emergency lights and sirens will not be used.

Upon arrival at Fremont Memorial Hospital (approximately 0900 hours), the patient will be treated by the Radiation Emergency Area (REA) Response Team.

Field Activities

American Red Cross Firelands
Chapter
300 Central Avenue
Sandusky, OH 44870
419-626-1641

Ottawa County Engineer
-Highway Garage
8247 W. SR 163
Oak Harbor, OH 43449
419-898-6463

Benton-Carroll-Salem Schools
11685 W. SR 163
Oak Harbor, OH 43449
419-898-6210

Ottawa County Sheriff's Office
315 Madison Street
Port Clinton, OH 43452
419-734-4404

Carroll Township Fire Department
11080 W. Toussaint Road
Oak Harbor, OH 43449
419-355-1000

Portage Fire District
242 W. Water Street
Oak Harbor, OH 43449
419-898-3109

Carroll Township EMS
11080 W. Toussaint Road
Oak Harbor, OH 43449
419-435-9600

Port Clinton Fire Department
1755 State Street
Port Clinton, OH 43452
419-734-3430

Fremont Memorial Hospital
715 South Taft Avenue
Fremont, OH 43420
419-334-6622

Riverview Senior Health Care
Campus
8180 W. State Route 163
Oak Harbor, OH 43449
419-898-2851

Genoa Area Schools
2810 N. Genoa Clay-Center Road
Genoa, OH 43430
419-855-7741

Sandusky High School
2130 Hayes Avenue
Sandusky, OH 44870
(419) 621-2744

Harris-Elmore Fire & EMS
Departments
321 Rice Street
Elmore, OH 43416
419-698-6600 (Fire)
419-862-3332 (EMS)

**Lucas County Extent of Play Agreement
For the
Davis-Besse Nuclear Power Station Exercise
May 15, 2007**

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

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

All agencies identified in the Lucas 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) 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 will notify the emergency response agencies/individuals. Agencies/individuals 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.

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.

Criterion 1.a.1 (Cont.)

The following field activities/facilities will be demonstrated out of sequence:

Traffic/Access Control

- Lucas County Sheriff's Office Road Patrol
TUESDAY, MAY 15, 2007 at 1300 hours

Emergency Worker Monitoring/Decontamination

- Jerusalem Township Fire Department
MONDAY, MAY 14, 2007 at 1830 hours

Evacuee Monitoring/Decontamination

- Oregon Fire Department
MONDAY, MAY 14, 2007 at 1830 hours

Protective Action Implementation

- Oregon School District Transportation Department
TUESDAY, MAY 15, 2007 @ 1000 hours

Eisenhower Middle School

- Oregon Fire Department
MONDAY, MAY 14, 2007 at 1900 hours
- Job & Family Services
MONDAY, MAY 14, 2007 at 1900 hours
- ARES
MONDAY, MAY 14, 2007 at 1900 hours
- Salvation Army
MONDAY, MAY 14, 2007 at 1900 hours
- Red Cross
MONDAY, MAY 14, 2007 at 1900 hours
- Toledo-Lucas County Health Department
MONDAY, MAY 14, 2007 at 1900 hours

Congregate Care Facilities

- American Red Cross

MONDAY, MAY 14, 2007 at 1900 hours

- ARES

MONDAY, MAY 14, 2007 at 1900 hours

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

The Lucas County EOC is new (2006) and will need to be evaluated to establish a baseline. EOC back up power automatically tested under load every Tuesday, 0730 to 0830. Documentation is available from 9-1-1 manager.

All facilities at the locations listed in Criterion 1.a.1 will be demonstrated.

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.

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

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.

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 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 Services
- Ohio Emergency Management Agency

- Oregon City School Bus Garage
- Lucas County Sheriff's Dispatch
- Reception Center
- Care Center

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

Applicable displays, supplies, etc. at the following locations: Sheriff Substation, Oregon School District Bus Garage, EOC, Oregon Fire Department, Station #1
1.e.1 will be demonstrated.

EVALUATION AREA 2 – PROTECTIVE ACTION DECISION MAKING

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.

The Lucas County Radiological Officer will coordinate with dosimetry coordinators to monitor exposure of county emergency workers. Each emergency worker will wear assigned dosimetry devices at all times when performing personnel or equipment 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 disseminated to dosimetry coordinators by the RO.

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

The Ohio Dept. of Health will recommend the use of KI

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

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.

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 (PADs) for the general public (including the recommendation for the use of KI, if ORO policy).

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

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.

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

N/A. 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.

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.

Not Applicable – Lucas County relies on the State of Ohio.

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 procedures.

This Criterion will be demonstrated by the Lucas County Post Accident Operations Committee (PAOC) through table top discussion Tuesday, May 15, 2007. The demonstration will be approximately 30 minutes after the plume/emergency phase of the exercise has been terminated. The PAOC consists of:

- Lucas County Commissioners
- Lucas County Emergency Management
- Lucas County Sheriff Office
- Lucas County Engineer Office
- Lucas County Radiological Officer
- Lucas County Health Department
- Lucas County Public Information and/or Liaison
- Ohio State University Extension Agent
- Fire/EMS Liaison
- Local Government Liaisons as Appropriate

The initiating conditions/scenario will be provided prior to the start of the demonstration. They may be independent of the plume phase conditions. Discussions will be driven by Controller injects and State provided dose assessment data.

EVALUATION AREA 3 – PROTECTIVE ACTION IMPLEMENTATION

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.

The Lucas County Radiological Officer will coordinate with dosimetry coordinators to monitor exposure of 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 disseminated to dosimetry coordinators by the RO.

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.

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

- Oregon City School District Transportation Director and a volunteer bus driver at the Bus Garage at Clay High School, TUESDAY, MAY 15, 2007 at 1000 hours.
- Jerusalem Township Fire Department Dosimetry Coordinator at the Jerusalem Township Fire Department, MONDAY, MAY 14, 2007 at 1830 hours
- Oregon Fire Department Dosimetry Coordinator at the Oregon Fire Station #1, MONDAY, MAY 14, 2007 at 1830 hours
- Lucas County Sheriff's Road Patrol and Dosimetry Coordinator at the Sheriff's Substation on Jerusalem Road (11-2), TUESDAY, MAY 15, 2007 at 1300 hours

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.

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.**

The Ohio Dept. 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:

- Oregon City School District Transportation Director and a volunteer bus driver at the Bus Garage at Clay High School, TUESDAY, MAY 15, 2007 at 1000 hours.
- Jerusalem Township Fire Department Dosimetry Coordinator at the Jerusalem Township Fire Department, MONDAY, MAY 14, 2007 at 1830 hours.
- Oregon Fire Department Dosimetry Coordinator at the Oregon Fire Station #1, MONDAY, MAY 14, 2007 at 1830 hours.
- Lucas County Sheriff's Road Patrol and dosimetry coordinator at the Sheriff's Substation on Jerusalem Road, TUESDAY, MAY 15, 2007 at 1300 hours

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

There are no special facilities in the EPZ in Lucas County. There are a small number of transportation dependent individuals. A list with their needs is maintained by the Lucas County EMA, Fire Coordinator in the EOC and with the Jerusalem Township Fire Chief. This list will be presented upon request and is considered a confidential list.

Coordination with the Oregon School District Transportation Director to provide buses and volunteer drivers for the evacuation of the mobility impaired/transportation dependent populations will be relayed by the Fire Coordinator in the EOC. Demonstration will be by interview.

Oregon City School District Transportation Director and a volunteer bus driver at the Bus Garage at Clay High School, TUESDAY, MAY 15, 2007 at 1000 hours. A bus will not be driven for this exercise.

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

Lucas County has no schools within the 10-mile EPZ. However, some of the students who attend Jerusalem Elementary School live within the 10-mile EPZ. Therefore, as a precautionary measure, students at Jerusalem Elementary are transported to Eisenhower Middle School (Reception Center) at the Site Area

Emergency. In accordance with the RERP and SOP's, the Oregon School District Representative will report to the EOC to:

1. Advise school district officials on plant status and recommended response actions.
2. Simulate providing buses and volunteer bus drivers for evacuation of mobility impaired and transportation dependant populations.

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

Lucas County Sheriff's Road Patrol will demonstrate this at the Sheriff's Substation on Jerusalem Road (Route 2) on TUESDAY, MAY 15, 2007 at 1300 hours.

Activation of the remaining traffic and access control points shall be demonstrated procedurally (simulated) at the Lucas County EOC by:

- Lucas County Law Enforcement Coordinator
- Lucas County Engineer

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

The Lucas County Sheriff's Office and the Lucas County Engineer's Office Liaison located in the EOC will demonstrate the capability to identify impediments to evacuation and implement appropriate actions to remove or otherwise deal with impediments. Controller injects will identify impediment(s) that will impact evacuation route and necessitate re-routing traffic and drive further discussion. Actual resources will not be utilized.

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.

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.

Not applicable – Lucas County relies on the State of Ohio

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.

This Criterion will be demonstrated by table top discussion by selected personnel at the conclusion of the EOC exercise.

EVALUATION AREA 4 – FIELD MEASUREMENT AND ANALYSIS

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.

Not applicable – Lucas 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.

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 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.

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

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.

Not applicable - Lucas County relies on the State of Ohio

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

Not applicable - Lucas County relies on the State of Ohio

EVALUATION AREA 5 – EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

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.

Ottawa County is responsible for EAS and siren activation. Lucas County Executive Group will coordinate with Ottawa County for the time of siren sounding and the 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.

N/A. Will not be demonstrated as the exercise scenario will not call for failure of any portion of primary alert system in Lucas County.

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

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

Upon arrival at the JIC, 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.

One (1) Public Inquiry telephone 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 Public Inquiry Representative will be responsible for reporting identified trends to the Public Information Liaison for further disposition as

may be appropriate. This information shall be forwarded to the Public Information Officer at the JIC.

Offsite Response Organizations:

- Joint Information Center (JIC)
- Lucas County EOC

EVALUATION AREA 6 – SUPPORT OPERATION/FACILITIES

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.

The Eisenhower Middle School Reception Center will be demonstrated out of sequence, MONDAY, MAY 14, 2007 at 1900 hours.

Oregon Fire Department will be pre-positioned at the Oregon Fire Station #1 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 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. Emergency Worker Monitoring and Decontamination will be demonstrated at Jerusalem Township Fire Station. This demonstration will be out of sequence on May 14, 2007 beginning at 1830 hours. For this demonstration dosimetry will be issued. Personnel assignments will be made. One (1) firefighter will be monitored and found to be contaminated. The decontamination process will be demonstrated by procedure.

Evacuee vehicle monitoring/decontamination at the Reception Center will not be physically demonstrated. Members of the Oregon Fire Department will demonstrate monitoring/decontamination by interview.

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.

Not selected. This criterion was successfully demonstrated in 2003.

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.

The Care Center (Clay High School) will be demonstrated out of sequence on MONDAY, MAY 14, 2007 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 staff positions that will be participating will include one Care Center Manager, one Registration Worker, one Nurse, and one Family Worker.

ARES 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 - MONDAY, MAY 14, 2007 at 1900 hours

- ARES - MONDAY, MAY 14, 2007 at 1900 hours

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.

Not selected. This criterion was successfully demonstrated in 2005.

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 Station REP Full Participation Plume Exposure Pathway Exercise on May 15, 2007.

This exercise scenario was submitted by the State of Ohio and FirstEnergy Nuclear Corporation and approved by DHS/FEMA Region V on May 3, 2007.

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.

2007 Evaluated Exercise Scenario/Timeline (Davis-Besse)

SCENARIO

This section provides a description of the event sequence and provides figures depicting key plant conditions. It is broken down into the following areas:

1. NARRATIVE SUMMARY

This section provides a general overview of the event sequence for a quick understanding of the extent of play.

CONDUCT OF PLAY

Operational data and event timing for this scenario were developed in conjunction with practice runs of the Plant Simulator. Selected failures were injected into normal plant operations as depicted on the Simulator and Operator response was permitted to take place on a "real time" basis. No artificial time compressions were injected into the time sequence.

During the day this scenario is conducted, plant equipment status will be based on Control Room Simulator Operator response that day, which may be different than that which occurred during the practice runs. Controllers at the Simulator will be trying to keep the sequence of events on track, however, they will try to do this without the use of verbal overrides. Instead, should the Control Room Simulator Operators take a course of action that may significantly alter the outcome of the sequence of events, the Instructor Facility (IF) Operator will inject additional faults or malfunctions that can thwart the Operator actions in a manner that is consistent with "real life" equipment failures or problems.

Because of the extensive freeplay being allotted to Control Room Simulator Operators, the IF Operator is authorized to take immediate action as deemed appropriate to keep

the sequence of events on track. If time permits, the injecting of additional equipment failures should be cleared with the Lead Controller first.

Some Control Room Simulator Operator actions will be permitted, even though they are not listed in Section 6.3, if the consequence of these actions does not significantly affect the overall outcome of the scenario.

NARRATIVE SUMMARY

Initial conditions; plant operating at 100% power and has been operating at or above 90% power for the last 200 days. Iodine concentration in the Reactor Coolant System has increased steadily for the last two weeks. All other plant chemistry is in specification and stable. All plant systems are in automatic. It is an overcast day with a light breeze coming off the lake.

Maintenance personnel are in the process of replacing a bearing on the #1 Low Pressure Injection Decay Heat (LPI/DH) Pump, causing it to be Out Of Service (OOS).

At about 0800 hours, The Control Room Simulator (CRS) Operators will receive a call identifying that the #2 Low Pressure/Decay Heat (LPI/DH) Pump has become inoperable due to oil leak, and enter Tech Spec 3.0.3 requiring a plant shutdown. The Shift Manager should make an emergency classification declaration of an ALERT based on EMERGENCY ACTION LEVEL 3.B.1, Loss of the Low Pressure Injection/Decay Heat System (Both Trains). The Davis-Besse Nuclear Power Station (DBNPS) Technical Specifications (TS) do not allow for the operation of the plant with both LPI/DH pumps out of service. The Shift Manager should direct a plant shutdown commence within one hour. The power decrease will be limited to , 80 3.0 MW/mm for the purpose of the scenario.

At 0915 hours, one control rod falls into the core, forcing a rapid power reduction to below 60 percent Reactor power. Because a plant shutdown is required for Tech Spec. 3.0.3, the #2 Main Feedwater Pump will be removed from service.

At about 1003 hours, the #1-1 Main Feedwater Pump (MFP) Lube Oil annunciator will alarm in the CRS. A broken oil line will be discovered when investigated by the Operators/OSC. This broken oil line cause's oil to spray onto the Motor Driven Feed Pump (MDFP).

At 1010 hours, the #1-1 MFP will trip due to low oil pressure. This will cause the plant to trip due to a loss of all Feedwater. Reactor Coolant System (RCS) temperature and pressure will increase due to the decreased heat removable capabilities. One of the pressurizer relief valves will stick open. The MDFP will trip, due to the oil sprayed onto it, if the CRS Operators attempt to start it.

Number 1 Auxiliary Feedwater (AFW) Pump will not start after the MFPs have tripped and the reactor has tripped. Number 2 AFW pump starts but a few minutes after that, the # 2 AFW Pump will trip due to a damaged Woodard Governor. A complete loss of all Feedwater has now occurred with the loss of both MFPs, both AFW Pumps, and the

MDFP. The Emergency Director will declare a SITE AREA EMERGENCY based on EMERGENCY ACTION LEVEL 3.B.3 Complete Loss of Any Function Needed for Plant Hot Shutdown.

In addition the Pilot Operated Relief Valve (PORV) will fail closed. This will allow only the Pressurizer Relief Valves and the Reactor Coolant System (RCS) high point vents to relieve the increasing RCS pressure. The reactor is being cooled by adding cool water to the reactor with #1 Makeup Pump and releasing hotter water to Containment through the Pressurizer Relief Valves and the RCS high point vents. The number 2 Make-up pump fails to start when attempted by the Simulator Control Room Operators. This will cause the reactor core to heat up and will cause damage to the fuel rods.

At about 1130 hours, DH-9B Expansion Bellows on the Containment side of the valve will fail. This will release the radioactive Containment atmosphere into the Make Up Pump Room. The Emergency Ventilation System fans will draw the radioactive atmosphere into the #4 Mechanical Penetration Room and discharge it to the Station Vent. At 1145 area and ventilation radiation monitors detect the radiation release. An offsite release is now in progress. The ERO will re-classify to a GENERAL EMERGENCY based on EMERGENCY ACTION LEVEL 6.D.6 or 6.D.8 (Projected dose rate of 1 Rem/Hour or greater at the site boundary), or 1.C.1 (Loss of 2 of 3 Fission Product Barriers with a potential loss of the third barrier). Dose Assessment staff should provide offsite Protective Action Recommendations to evacuate Subareas 1, 2, 10, and 12. About one hour later the stability class will change due to change in the delta Temperature. Dose Assessment staff will evaluate this change in stability class and change the offsite Protective Action Recommendation to evacuate Subareas 1, 2, 3, 10, ii and 12.

The Pressurizer Relief Valve will close when the RCS pressure decreases to 1000 psig. The plant begins to stabilize and the ERO management personnel consider downgrading and recovery activities begin.

Offsite Emergency Operating Centers are fully activated. The SAE Emergency Alerting System message is broadcast and sirens are activated within the 10 mile Emergency Planning Zone. Counties initiate traffic and perimeter control. Host counties staff reception and care centers.

The JPIC responds to increasing media interest in the emergency situation in Ottawa County. Public Inquiry Hotline Operators address community inquiries. The State of Ohio issues protective actions for dairy animals near the station. The State of Ohio, Ottawa County, and Lucas County select a course of action to protect the residents within the 10 mile Emergency Planning Zone. An EAS message is prepared and the sirens are sounded. 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.

Dose assessment activities will occur with field monitoring teams demonstrating their ability to locate and track the plume. Protective Action Recommendations will be made, and offsite authorities will follow-up with protective actions.

Dose Assessment staff will notice that the Delta temperature has changed and provide offsite Protective Action Recommendations to evacuate Subareas 1, 2, 3, 1G, 11, and 12.

OSC repair teams are dispatched to isolate (stop) the radioactive release. After several attempts, the repair team should be able to stop the release. If the repair team is unsuccessful, Containment pressure will have decreased enough to stop the release at 1330. Station vent monitor readings decrease.

The plant is stabilized and ERO management personnel consider downgrading. Recovery activities begin. The scenario is terminated following discussion between utility and offsite agencies on declassification. Each facility debriefs and documentation is collected for review.

A re-entry/recovery discussion is held following the termination of the Scenario.