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U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

To Whom It May Concern:

Enclosed is one copy of the Final Report for the October 7, 2008, Radiological Emergency Preparedness (REP) Full Participation Plume Exposure Pathway Exercise for the Perry Nuclear Power Plant. The State of Ohio, Lake, Geauga and Ashtabula Counties, and the utility owner/operator, FirstEnergy Nuclear Corporation, participated in this exercise.

No Deficiencies were identified for any jurisdiction during this exercise. There were no Areas Requiring Corrective Action (ARCAs) identified for the State of Ohio and Ashtabula County during this exercise.

There were no previous ARCAs for the State of Ohio, Lake, Ashtabula and Geauga Counties that were resolved.

There was one ARCA each identified for Lake and Geauga Counties. The ARCA identified for Lake County was issued under Criterion 3.a.1 – Implementation of Emergency Worker Exposure Control, whereby a Wickliffe Firefighter was not familiar with the permanent record dosimeter (PRD) that was issued in his dosimetry kit during an out-of-sequence demonstration. This issue was successfully re-demonstrated.

The ARCA identified for Geauga County was issued under Criterion 6.b.1 – Monitoring and decontamination of emergency worker equipment including vehicles, whereby a Chardon Firefighter operating the survey meter moved it too rapidly and held it at a distance that did not meet the appropriate requirements. This issue was successfully re-demonstrated.

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

Based on the results of the October 7, 2008, exercise, the offsite radiological emergency response plans and preparedness for the State of Ohio and affected local jurisdictions, site-specific to the Perry Nuclear Power Plant, 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.

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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 Perry Nuclear Power Plant, granted on June 17, 1994, remain in effect.

Copies of this report have been provided to the DHS/FEMA National Office, Nuclear Regulatory Commission (NRC) Region III, and the State of Ohio.

If you 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 "Janet M. Odesloo", written in a cursive style.

Janet M. Odesloo
Acting Regional Administrator

Enclosure (1)

Perry Nuclear Power Plant
Exercise Report - 2008-10-07
Final Report - Radiological Emergency
Preparedness (REP) Program
2009-02-19



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Exercise Report

Perry Nuclear Power Plant

Exercise Date: 2008-10-07

Report Date: 2009-02-19

U.S. DEPARTMENT OF HOMELAND SECURITY

Federal Emergency Management Agency

REP Program

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1. Executive Summary

On October 7, 2008, a Radiological Emergency Preparedness (REP) Full Participation Plume Exposure Pathway Exercise was conducted for the 10-mile Emergency Planning Zone (EPZ) around the Perry Nuclear Power Plant by the U.S. Department of Homeland Security (DHS), Federal Emergency Management Agency (FEMA). The purpose of the exercise was to assess the level of preparedness of State and local jurisdictions in responding to a radiological emergency. This exercise was held in accordance with DHS/FEMA 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 October 24, 2006. The qualifying emergency preparedness exercise was conducted on November 28, 1984.

DHS/FEMA wishes to acknowledge the efforts of the many individuals in the State of Ohio, and Lake, Ashtabula and Geauga 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 Draft Report contains the evaluation of the biennial exercise and the evaluation of the following out of sequence activities:

State of Ohio

Dosimetry Distribution Point

ODH Sampling Screening Point

Field Monitoring Teams

Field Monitoring Team Coordinator

Lake County

Medical (MS-1) Services Drill

Traffic and Access Control Point
Field Monitoring Teams
Field Monitoring Teams Coordinator
Field Monitoring Teams Equipment Inventory
(EV-2) School Interview
Backup Route Alerting
Evacuee Monitoring/Decontamination/Registration
Evacuee Vehicle Monitoring and Decontamination
Distribution of KI to General Public
Congregate Care Center
Relocation, Re-entry and Return

Ashtabula County

Backup Route Alerting
Evacuee Monitoring/Decontamination/Registration
Congregate Care Center
Evacuee Vehicle Monitoring/Decontamination
Distribution of KI to the General Public
(EV-2) School Interview
Relocation, Re-entry and Return

Geauga County

Emergency Worker Monitoring and Decontamination
Emergency Worker Vehicle/Equipment Monitoring and Decontamination
Evacuee Monitoring/Decontamination/Registration
Distribution of KI to the General Public
Evacuee Vehicle Monitoring/Decontamination
Congregate Care Center
Relocation, Re-entry and Return

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 for any jurisdiction during this exercise.

There were no Areas Requiring Corrective Action (ARCAs) identified for the State of Ohio and Ashtabula County during this exercise.

There were no previous ARCAs for the State of Ohio, Lake, Ashtabula and Geauga Counties that were resolved.

There was one ARCA each identified for Lake and Geauga Counties. The ARCA identified for Lake County was issued under Criterion 3.a.1 – Implementation of Emergency Worker Exposure Control, whereby a Wickliffe Firefighter was not familiar with the permanent record dosimeter (PRD) that was issued in his dosimetry kit during an out-of-sequence demonstration. This issue was successfully re-demonstrated.

The ARCA identified for Geauga County was issued under Criterion 6.b.1 – Monitoring and decontamination of emergency worker equipment including vehicles, whereby a Chardon Firefighter operating the survey meter moved it too rapidly and held it at a distance that did not meet the appropriate requirements. This issue was successfully re-demonstrated.

A detailed discussion of these issues can be found in Part IV of this report.

2. Introduction

On December 7, 1979, the President directed FEMA to assume the lead responsibility for all offsite nuclear planning and response. DHS/FEMA activities are conducted pursuant to Title 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.

The FEMA Title 44 CFR 350 establishes the policies and procedures for DHS/FEMA initial and continued approval of State and local governments' radiological emergency planning and preparedness for commercial nuclear power plants. This approval is contingent, in part, on State and local governments' participation in joint exercises with licensees.

DHS/FEMA responsibilities in radiological emergency planning for fixed nuclear facilities include the following:

- Taking the lead in offsite emergency planning and in the review and evaluation of RERPs and procedures developed by State and local governments;
- Determining whether such plans and procedures can be implemented on the basis of observation and evaluation of exercises of the plans and procedures conducted by State and local governments;
- Responding to requests by the U.S. Nuclear Regulatory Commission (NRC) pursuant to the Memorandum of Understanding between the NRC and FEMA dated June 17, 1993 (Federal Register, Vol. 58, No. 176, September 14, 1993); and
- Coordinating the activities of Federal agencies with responsibilities in the radiological emergency planning process:
 - U.S. 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 Regional Assistance Committee (RAC), which is chaired by DHS/FEMA.

Formal submission of the RERPs for the Perry Nuclear Power Plant to DHS/FEMA Region V by the State of Ohio and involved local jurisdictions occurred on January 23, 1986. Formal approval of these RERPs was granted by FEMA on June 15, 1987, under 44 CFR 350.

A REP Full Participation Plume Exposure Pathway Exercise was conducted on October 7, 2008, by DHS/FEMA 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 Perry Nuclear Power Plant. 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 RAC Chairman, and approved by DHS/FEMA Headquarters.

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 (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 October 7, 2008, REP Full Participation Plume Exposure Pathway Exercise to test the offsite response organizations emergency capabilities in the area surrounding the Perry Nuclear Power Plant. This section of the exercise report includes a description of the plume Emergency Planning Zone, and 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 Perry Nuclear Power Plant (PNPP) reactor units one and two are located on the southeast shoreline of Lake Erie in Lake County, Ohio. The site is approximately seven miles northeast of Painesville, Ohio and 35 miles east of Cleveland, Ohio.

The plant site occupies approximately 1100 acres on a lake plain 50 feet above the lake low-water datum. The terrain surrounding the plant is essentially flat within five miles of the lakeshore. Rising generally to the south, the site is broken only by a lattice work of shallow, north-south stream beds and low, almost unnoticeable east-west ridges; the latter are remnants of ancient lake-shores. About five miles inland, the shoreline plane is abruptly cut by a 100-foot-deep ravine of the Grand River. The terrain south of the river is more rolling, interrupted by north-south ravines of tributaries of the Grand, Kellogg, Big, Paine, and Mill creeks and several smaller streams. A large portion of the site is forested, some 250 acres are devoted to the plant structural complex and the remainder is open grassland.

Lake County, where the nuclear power plant is located, is the smallest of Ohio's 88 counties, with 232 square miles. The 2000 census approximates the population to be 102,920 residents currently within the 10-mile emergency planning zone (EPZ); 13, 591 are residents of Geneva and Harpersfield Townships in Ashtabula County with an estimated 1,930 in Geauga County.

FirstEnergy Corporation owns the Perry Nuclear Power Plant.

3.2. Exercise Participants

Agencies and organizations of the following jurisdictions participated in the Perry Nuclear Power Plant exercise:

State Jurisdictions

- Ohio Emergency Management Agency (OEMA)
- Ohio Department of Health (ODH)
- Ohio State Highway Patrol
- Ohio National Guard (ONG)
- Ohio Environmental Protection Agency

Risk Jurisdictions

- Lake County Commissioners
- Lake County Emergency Management Agency
- Lake County Sheriffs Department
- Lake County General Health District
- Lake County Engineer
- Ohio State Highway Patrol
- Ohio National Guard
- Ohio Department of Public Safety
- Lake Hospital
- Mentor Fire and Rescue Services
- Lake County Job and Family Services
- PNPP EOF Liaison
- Ohio Environmental Protection Agency
- Ohio Department of Health
- Ohio State University Extension
- Perry Local School District
- Mentor Exempted School District
- Perry Joint Fire Department
- Wickliffe Fire Department
- Madison Village Police Department
- Madison Township Police Department
- Painesville Township Fire Department
- Lake West Hospital
- Ashtabula County Commissioners
- Ashtabula County Sheriffs Department

Ashtabula County Emergency Management Agency
Ashtabula County Health Department
Ashtabula County Engineer
Geneva City Fire Department
Ashtabula Township Fire Department
Geneva School District
Geauga County Commissioners
Geauga County Sheriffs Department
Geauga County Emergency Management Agency
Geauga County Health Department
Geauga County Engineer
Chardon Volunteer Fire Department
Middlefield Fire Department

Private Jurisdictions

First Energy Nuclear Operating Company
State of Ohio Radio Amateur Civil Emergency Services (RACES)
Lake County Radio Amateur Civil Emergency Services (RACES)
Ashtabula County Radio Amateur Civil Emergency Services (RACES)
Geauga County Radio Amateur Civil Emergency Services (RACES)
American Red Cross of Greater Columbus
Ashtabula County Chapter American Red Cross
Greater Cleveland Chapter American Red Cross

3.3. Exercise Timeline

Table 1 on the following page, presents the time at which key events and activities occurred during the Perry Nuclear Power Plant REP Full Participation Plume Exposure Pathway Exercise on October 7, 2008. Also included are times notifications were made to the participating jurisdictions/functional entities.

TABLE 1. EXERCISE TIMELINE

DATE AND SITE: October 7, 2008; Perry Nuclear Power Plant

Emergency Classification Level or Event	Time Utility Declared	Time That Notification Was Received or Action Was Taken					
		State of Ohio Assessment Room	State of Ohio	Lake County	Ashtabula County	Geauga County	Joint Information Center
Unusual Event	0753	0758	0758	0758	0758	0758	N/A
Alert	0820	0829	0829	0829	0829	0829	N/A
Site Area Emergency	0937	0944	0944	0944	0944	0944	1010
General Emergency	1104	1116	1116	1116	1116	1116	1118
Simulated Minor Radioactive Material Release Started: PAGs not exceeded	0925	0930	0930	0930	0930	0930	N/A
Simulated Radioactive Material Release Started: PAGs exceeded	1104	1117	1117	1117	1117	1117	1118
Simulated Radioactive Material Release Terminated	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Facility Declared Operational		0930	1020	0923	0921	0856	1020
State: Declaration of State of Disaster		N/A	1015	N/A	N/A	N/A	N/A
Local: Declaration of State of Emergency		N/A	N/A	0955	0955	0955	N/A
Exercise Terminated		1424	1355	1330	1328	1329	1340
Livestock - Agriculture Advisory: Place Livestock and Poultry on stored feed and protected water for all townships within 10 miles of the plant.		0958	N/A	N/A	N/A	N/A	N/A
1 st Early Precautionary Action Decision: Relocate school children within the 10 mile EPZ to the designated receiving schools.		N/A	N/A	0955	0955	0955	N/A
2 nd Early Precautionary Action Decision: Restrict Lake Erie traffic and close State and Federal Parklands: Restrict air space: Restrict rail traffic:		N/A N/A N/A	0956 0957 1010	N/A N/A N/A	N/A N/A N/A	NA/ N/A N/A	N/A N/A N/A
1 st Protective Action Decision: Evacuate the public within Sub-Areas: 1, 2, 3, 4, 5 and Lake Erie.		PAR 1132	PAR 1132	PAD 1134	PAD 1134	PAD 1134	N/A
1 st Siren Activation		N/A	N/A	1138	N/A	N/A	N/A
1 st EAS Message		N/A	N/A	1141	N/A	N/A	N/A
2 nd Protective Action Decision: Evacuate the public within Sub-Areas: 1, 2, 3, 4, 5, 6, 7 and Lake Erie.		PAR 1232	PAR 1232	PAD 1235	PAD 1235	PAD 1235	N/A
2 nd Siren Activation		N/A	N/A	1238	N/A	N/A	N/A
2 nd EAS Message		N/A	N/A	1241	N/A	N/A	N/A
KI Ingestion Decision for the General Public/ Emergency Workers/Institutionalized Persons in Sub-Areas: 1, 2, 3, 4 and 5.		1134	1134	N/A	N/A	NA/	N/A
KI Ingestion Decision for the General Public/ Emergency Workers/Institutionalized Persons in Sub-Areas: 1, 2, 3, 4, 5, 6 and 7.		1238	1238	N/A	N/A	NA/	N/A

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 October 7, 2008, 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 Perry Nuclear Power Plant.

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 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 (7 pages)

DATE: 2008-10-07 SITE: Perry Nuclear Power Plant, OH A: ARCA, D: Deficiency, M: Met		State - INP - OHP Dispatch	State - EOC - ER	State - EOC - OR	State - EOC - AR	State - JIC - EOC	State - JIC - LCC	State - JIC - Lkelnd CC - RC	State - EOF	State - State Rad Analyst - Lake Co.	State - DDP - Brief - (RIMC)
Emergency Operations Management											
Mobilization	1a1	M		M	M		M		M	M	
Facilities	1b1										
Direction and Control	1c1		M	M	M		M		M	M	
Communications Equipment	1d1	M		M	M	M	M		M		M
Equip & Supplies to support operations	1e1			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
Implementation of KI decision	3b1								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		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				M						
Field Teams Manage Sample Collection Appropriately	4a3				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	
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		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 2/7)

DATE: 2008-10-07 SITE: Perry Nuclear Power Plant, OH A: ARCA, D: Deficiency, M: Met										
		State - SSP	State - FMT #1	State - FMT #2	State - FMT Coordinator	Lke. Co. - INP	Lke. Co. - EOC	Lke. Co. - JIC - Lkeland Comm College	Lke. Co. - JIC - LCC - RC	Lke. Co. - Decision Making - RRR
Emergency Operations Management										
Mobilization	1a1					M	M			
Facilities	1b1									
Direction and Control	1c1						M			
Communications Equipment	1d1	M	M	M	M	M	M			
Equip & Supplies to support operations	1e1	M	M	M	M		M			
Protective Action Decision Making										
Emergency Worker Exposure Control	2a1	M					M			
Radiological Assessment and PARs	2b1	M								
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			
Implementation of KI decision	3b1	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		M	M						
Field Teams obtain sufficient information	4a2	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			
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 3/7)

DATE: 2008-10-07 SITE: Perry Nuclear Power Plant, OH A: ARCA, D: Deficiency, M: Met			Lke. Co. - MS-1 Drill - Trans - Brief - Painsville Twnshp	Lke. Co. - MS-1 Drill - Facilities - Lke West Hosp.	Lke. Co. - TACP - Brief - Mad Village Police	Lke. Co. - TACP - Brief - Mad Twnship Police	Lke. Co. - FMT Coordinator	Lke. Co. - FMT #1	Lke. Co. - Field #2	Lke. Co. - EV-2 - Perry Local.Sch Dist	Lke. Co. - EV-2 Sch Interview - Mentor Exmptd Sch Dist	Lke. Co. - Field Mon Team Equip Inventory
Emergency Operations Management												
Mobilization	1a1											
Facilities	1b1											
Direction and Control	1c1											
Communications Equipment	1d1	M	M	M	M		M	M				M
Equip & Supplies to support operations	1e1	M	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											
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	M	M	
Implementation of KI decision	3b1	M		M	M		M	M	M	M	M	
Implementation of protective actions for special populations - EOCs	3c1											
Implementation of protective actions for Schools	3c2								M	M		
Implementation of traffic and access control	3d1			M	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				M
Field Teams obtain sufficient information	4a2					M						
Field Teams Manage Sample Collection Appropriately	4a3						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											
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											

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Table 2 - Summary of Exercise Evaluation (Continued. page 4/7)

		Lke. Co. - Bkup Rte Alert - Brief - Perry Joint FD	Lke. Co. - Bkup Rte Alert - Brief - Mentor FD	Lke. Co. - Mon of Evacs - Wick FD - Wickliffe HS	Lke. Co. - Decon of Evacs - Brief - Wickliffe FD - Wick HS	Lke. Co. - KI Dist to Gen Public - Co Hwy Dept - Wick HS	Lke. Co. - M/D of Evacuee Veh - FD - Wickliffe HS	Lke. Co. - Reg of Evacuees - ARC - Wickliffe HS	Lke. Co. - CCC - ARC - Wickliffe HS	Ash. Co. - INP	Ash. Co. - EOC
<p align="center">DATE: 2008-10-07 SITE: Perry Nuclear Power Plant, OH A: ARCA, D: Deficiency, M: Met</p>											
Emergency Operations Management											
Mobilization	1a1									M	M
Facilities	1b1										
Direction and Control	1c1										M
Communications Equipment	1d1	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										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										
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				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										
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								

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										
Temporary care of evacuees	6c1								M		
Transportation and treatment of contaminated injured individuals	6d1										

Table 2 - Summary of Exercise Evaluation (Continued. page 5/7)

<p>DATE: 2008-10-07 SITE: Perry Nuclear Power Plant, OH A: ARCA, D: Deficiency, M: Met</p>			Ash. Co. - TACP - EOC Briefing - Interview - Ohio State HP	Ash. Co. - TACP - EOC Briefing - Interview - Co. Sheriffs	Ash. Co. - JIC - Lakeland Comm College	Ash. Co. - JIC - LCC - Rumor Control	Ash. Co. - Decision Making - RRR	Ash. Co. - Implementation - RRR	Ash. Co. - Backup Rte Alert - Briefing - Geneva City FD	Ash. Co. - Mon of Evacs - Brief - Ash. Twshp FD - Egwd HS	Ash. Co. - Decon of Evacuees - Brief - Edgewood HS	Ash. Co. - KI to Gen Public - Co. Hwy Dept - Edgewood HS
Emergency Operations Management												
Mobilization	1a1											
Facilities	1b1											
Direction and Control	1c1											
Communications Equipment	1d1	M	M	M					M	M	M	
Equip & Supplies to support operations	1e1	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											
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	
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	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							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											
Activation of the prompt alert and notification system - Fast Breaker	5a2											
Activation of the prompt alert and notification system - Exception areas	5a3								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							M	M		
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 6/7)

<p>DATE: 2008-10-07 SITE: Perry Nuclear Power Plant, OH A: ARCA, D: Deficiency, M: Met</p>			Ash. Co. - Reg of Evacs - ARC - Edgwd HS	Ash. Co. - Mon/Decon of Evac Vehs - Ash FD - Intervw - Edgwd	Ash. Co. - CCC - ARC - Edgwd HS	Ash. Co. - EV-2 School Interview - Geneva Sch District	Gea. Co. - INP	Gea. Co. - EOC	Gea. Co. - TACP - EOC Briefing - Interview - OSHP	Gea. Co. - TACP - EOC Briefing - Interview - Co Sheriffs Dept.	Gea. Co. - JIC - Lakeland Comm College	Gea. Co. - JIC - LCC - Rumor Control
Emergency Operations Management												
Mobilization	1a1						M	M				
Facilities	1b1											
Direction and Control	1c1							M				
Communications Equipment	1d1					M	M	M	M	M	M	
Equip & Supplies to support operations	1e1	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				
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		
Implementation of KI decision	3b1		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	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											
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				M	M	
Support Operations/Facilities													
Mon / decon of evacuees and emergency workers, and registration of evacuees	6a1	M	M										
Mon / decon of emergency worker equipment	6b1												
Temporary care of evacuees	6c1			M									
Transportation and treatment of contaminated injured individuals	6d1												

Table 2 - Summary of Exercise Evaluation (Continued, page 7/7)

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[illegible]

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 maybe 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 Regional Offices and site-specific exercise reports within each Regional Office. 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 RAC Chairman. 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. Ohio Jurisdictions

4.2.1.1. State - Initial Notification Point - Ohio Highway Patrol Dispatch Center

- 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, 2.a.1, 2.b.1, 2.b.2, 2.c.1, 3.d.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 - Operations Room

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.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 - 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.d.1, 4.a.2, 4.a.3, 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

4.2.1.5. State - Joint Information Center - EOC

- a. MET: 1.d.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 - Joint Information Center - Lakeland Community College

- 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

4.2.1.7. State - Joint Information Center - Lakeland Community College - Rumor Control

- a. MET: 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

4.2.1.8. State - Emergency Operations Facility

- a. MET: 1.a.1, 1.c.1, 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

4.2.1.9. State - State Radiological Analyst - Lake 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

4.2.1.10. State - Dosimetry Distribution Point - Briefing - (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

4.2.1.11. 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

4.2.1.12. State - Field Monitoring Team #1

- a. MET: 1.d.1, 1.e.1, 2.a.1, 2.b.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

4.2.1.13. 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

4.2.1.14. 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

4.2.2. Risk Jurisdictions

4.2.2.1. Lake 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. Lake 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, 3.a.1, 3.b.1, 3.c.1, 3.c.2, 3.d.1, 3.d.2, 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

4.2.2.3. Lake County - Joint Information Center - Lakeland Community College

- a. MET: 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. Lake County - JIC - Lakeland Community College - Rumor Control

- a. MET: 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

4.2.2.5. Lake County - Decision Making - Relocation, Re-entry & Return

- a. MET: 2.e.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. Lake County - Implementation - Relocation, Re-entry and Return

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

4.2.2.7. Lake County - Medical Services (MS-1) Drill - Transportation - Briefing - Painesville Township Fire Department

- 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

4.2.2.8: Lake County - Medical Services (MS-1) Drill - Facilities - Lake West Hospital

- a. MET: 1.d.1, 1.e.1, 3.a.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

4.2.2.9. Lake County - Traffic and Access Control

Point - Briefing - Madison Village Police

- 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

4.2.2.10. Lake County - Traffic and Access Control

Point - Briefing - Madison Township Police

- 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

4.2.2.11. Lake County - Field Monitoring Team

Coordinator

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

4.2.2.12. Lake County - 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

4.2.2.13. Lake County - 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

4.2.2.14. Lake County - EV-2 School Interview - Perry Local School District

- a. MET: 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

4.2.2.15. Lake County - EV-2 School Interview - Mentor Exempted School District

- a. MET: 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

4.2.2.16. Lake County - Field Monitoring Team Equipment Inventory

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 4.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

4.2.2.17. Lake County-- Backup Route Alerting - Briefing - Perry Joint 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

4.2.2.18. Lake County - Backup Route Alerting - Briefing - Mentor 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

4.2.2.19. Lake County - Monitoring of Evacuees - Wickliffe Fire Department - Wickliffe High School

- a. MET: 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

4.2.2.20. Lake County - Decontamination of Evacuees - Briefing - Wickliffe Fire Department - Wickliffe High School

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

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CRITERION: OROs issue appropriate dosimetry and procedures, and manage radiological exposure to emergency workers IAW plans and procedures. Emergency workers periodically and at the end of each mission read and record dosimeter reading. (NUREG-0654, K.3)

CONDITION: A Wickliffe firefighter was confused when questioned on the procedures for using his permanent record dosimeter (PRD).

POSSIBLE CAUSE: The cause of this inadequacy appeared to be a training issue. A Controller was present and requested a brief retraining session.

REFERENCE: NUREG-0654: K.3.a, 3.b
REP-14/15: 5.1, 5.2

EFFECT: This would have resulted as a health and safety concern in that the firefighter would not be knowledgeable of recording the possible extended exposure to radiation and the purpose of the permanent read dosimeter would not have been achieved.

CORRECTIVE ACTION DEMONSTRATED: The evaluator conferred with the controller and agreed that the firefighter could be retrained and redemonstrate his knowledge of dosimetry. The lead firefighter then repeated his dosimetry briefing and the controller aided in retraining the firefighter. The firefighter was again interviewed by the evaluator and demonstrated that he did understand the use of the TLD, that it provided a complete record of radiation exposure, that it must be worn outside of his clothing in or near the middle of his torso, and that it would be turned in to the leader at the end of his assignment.

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

4.2.2.21. Lake County - Distribution of KI to General Public - County Health Department - Wickliffe High School

- a. MET: 1.e.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

4.2.2.22. Lake County - Monitoring/Decontamination of Evacuee Vehicles - Wickliffe Fire Department - Wickliffe High School

- a. MET: 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

4.2.2.23. Lake County - Registration of Evacuees - American Red Cross - Wickliffe High School

- a. MET: 1.e.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

4.2.2.24. Lake County - Congregate Care Center - American Red Cross - Wickliffe High School

- a. MET: 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

4.2.2.25. Ashtabula 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

4.2.2.26. Ashtabula County - Emergency Operations Center (EOC)

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.2, 2.c.1, 3.a.1, 3.b.1, 3.c.1, 3.c.2, 3.d.1, 3.d.2, 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

4.2.2.27. Ashtabula County - Traffic and Access Control Point - EOC Briefing - Interview - Ohio State Highway Patrol

- 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

4.2.2.28. Ashtabula County - Traffic and Access Control Point - EOC Briefing - Interview - County Sheriffs Department

- 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

4.2.2.29. Ashtabula County - Joint Information Center - Lakeland Community College

- a. MET: 1.d.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

4.2.2.30. Ashtabula County - JIC - Lakeland Community College - Rumor Control

- a. MET: 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

4.2.2.31. Ashtabula County - Decision Making - Relocation, Re-entry and Return

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

4.2.2.32. Ashtabula County - Implementation - Relocation, Re-entry and Return

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

4.2.2.33. Ashtabula County - Backup Route Alerting - Briefing - Geneva City 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

4.2.2.34. Ashtabula County - Monitoring of Evacuees - Briefing - Ashtabula Township Fire

Department - Edgewood High 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

4.2.2.35. Ashtabula County - Decon of Evac-Briefing - Ashtabula Twnship FD - Edgewood HS

- 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

4.2.2.36. Ashtabula County - Distribution of KI to General Public - County HD - Edgewood High School

- a. MET: 1.e.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

4.2.2.37. Ashtabula County - Registration of Evacuees - American Red Cross - Edgewood High School

- a. MET: 1.e.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

4.2.2.38. Ashtabula County - Monitoring/Decontamination of Evacuee Vehicles - Interview - Ashtabula Fire Department - Edgewood High School

- a. MET: 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

4.2.2.39. Ashtabula County - Congregate Care Center - American Red Cross - Edgewood High School

- a. MET: 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

4.2.2.40. Ashtabula County - EV-2 School Interview - Geneva 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

4.2.2.41. Geauga 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

4.2.2.42. Geauga County - Emergency Operations Center (EOC)

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.2, 2.c.1, 3.a.1, 3.b.1, 3.c.1, 3.d.1, 3.d.2, 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

4.2.2.43. Geauga County - Traffic and Access Control Point - EOC Briefing - Interview - Ohio State Highway Patrol

- 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

4.2.2.44. Geauga County - Traffic and Access Control Point - EOC Briefing - Interview - County Sheriffs Department

- 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

4.2.2.45. Geauga County - Joint Information Center - Lakeland Community College

- a. MET: 1.d.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

4.2.2.46. Geauga County - JIC - Lakeland Community College - Rumor Control

- a. MET: 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

4.2.2.47. Geauga County - Decision Making - Relocation, Re-entry and Return

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

4.2.2.48. Geauga County - Implementation - Relocation, Re-entry and Return

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

4.2.2.49. Geauga County - Monitoring of Evacuees - Briefing - Middlefield Fire Department - Cardinal High School

- a. MET: 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

4.2.2.50. Geauga County - Decontamination of Evacuees - Briefing - Middlefield Fire Department - Cardinal High School

- a. MET: 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

4.2.2.51. Geauga County -- Distribution of KI to General Public - County Health Department - Cardinal High School

- a. MET: 1.e.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

4.2.2.52. Geauga County - Registration of Evacuees - American Red Cross - Cardinal High School

- a. MET: 1.e.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

4.2.2.53. Geauga County - Monitoring/Decontamination of Evacuee Vehicles - Interview - Middlefield Fire Department - Cardinal High School

- a. MET: 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

4.2.2.54. Geauga County - Monitoring/Decontamination of Emergency Worker - Briefing - Chardon Fire Department - Chardon High School

- a. MET: 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

4.2.2.55. Geauga County - Monitoring/Decontamination of Emergency Worker Equipment and Vehicles Briefing - Chardon Fire Department - Chardon High School

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

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CRITERION: Facility/ORO has adequate procedures and resources for the accomplishment of monitoring and decontamination of emergency worker equipment including vehicles. (NUREG-0654, K.5.b)

CONDITION: When vehicle monitoring was demonstrated, the probe was initially moved too rapidly and it was held too far from the surface of the vehicle.

POSSIBLE CAUSE: Training may have been inadequate.

REFERENCE: NUREG 0654; K.5.b "Each organization, as appropriate, shall establish the means for radiological decontamination of emergency personnel wounds, supplies, instruments and equipment, and for waste disposal."

EFFECT: At the speed and distance the probe was used, contamination would not have been detected on the vehicle. Persons could come in contact with the contaminated area and become contaminated themselves without their knowledge.

CORRECTIVE ACTION DEMONSTRATED: The incorrect monitoring process was stopped. The controller completed on-the-spot retraining. The emergency worker successfully redemonstrated monitoring techniques. He held the probe the proper distance from the vehicle and moved it at the proper speed.

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

4.2.2.56. Geauga County - Congregate Care Center - Cardinal High School - American Red Cross

- a. MET: 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

ACRO	Ashtabula County Radiological Officer
ALARA	As Low As Reasonably Achievable
ARC	American Red Cross
ARES	Amateur Radio Emergency Services
ARIO	Advanced Radiological Incident Operations
ARMC	Aerial Radiological Monitor Course
BRP	Bureau of Radiation Protection
CADAP	Computer-Aided Dose Assessment Program
CAS	Crisis Action System
cc	cubic centimeter
CCC	Congregate Care Center
CD V-715	Format for abbreviated model designation for the Civil Defense Victoreen Model 715 survey instrument (similarly for CD V-700)
CDE	Committed Dose Equivalent
CE	County Engineer
CEDE	Committed Effective Dose Equivalent
CFD	Chardon Fire Department
CFR	Code of Federal Regulations
COTP	Captain of the Port, U.S. Coast Guard
CPM	Counts Per Minute
DAC	Dose Assessment Coordinator
DAR	Dose Assessment Room
DC	Dosimetry Coordinator
DIL	Derived Intervention Level
DOC	Department of Commerce
DOE	Department of Energy
DOI	Department of Interior
DOT	Department of Transportation
DPL	Dedicated Phone Line
DPM	Decades Per Minute
DRD	Direct Read Dosimeter
DRL	Derived Response Level
DTL	Dedicated Telephone Line
EAL	Emergency Action Level
EAS	Emergency Alert System (formerly known as EBS)
ECL	Emergency Classification Level
ED	Executive Director
EDL	Executive Decision Line
EMA	Emergency Management Agency
EMD	Emergency Management Director
EMI	Emergency Management Institute
EMS	Emergency Medical Services
EOC	Emergency Operations Center

EOF	Emergency Operations Facility
EPA	Environmental Protection Agency
EPI	Emergency Preparedness Information
EPINFO	Electric Plant Information (plant data)
EPZ	Emergency Planning Zone
ERDS	Emergency Response Data System
ESF	Emergency Support Function
EW	Emergency Workers
FAA	Federal Aviation Administration
FCRDO	Fundamentals Course for Radiological Defense Officers
FCRM	Fundamentals Course for Radiological Monitors
FCRRT	Fundamentals Course for Radiological Response Teams
FD	Fire Department
FDA	Food and Drug Administration
FEMA	Federal Emergency Management Agency
FENOC	First Energy Nuclear Operating Company
FERT	Federal Emergency Response Team
FMT	Field Monitoring Team
FMTCT	Field Monitoring Team Coordinator
FNAMS	FEMA National Automated Message System
FNARS	FEMA National Radio System
FRERP	Federal Radiological Emergency Response Plan (replaced by NRF)
FRMAC	Federal Radiological Monitoring and Assessment Center
FRPCC	Federal Radiological Policy Coordinating Committee
FSA	Farm Service Agency (USDA)
FTC	Field Team Coordinator
GCHD	Geauga County Health District
GE	General Emergency
GETS	Government Emergency Telecommunications Service
GIS	General Information System
GM	Guidance Memorandum
GPSD	Geneva Public Schools District
HF	High Frequency
HHS	Health and Human Services
HRA	Hospital Emergency Department Management of Radiation Accidents
HSAS	Homeland Security Advisory System
HSOC	Homeland Security Operations Center
HSPD-5	Homeland Security Presidential Directive - 5
HUD	Housing and Urban Development
μCi	microcurie
ICS	Incident Command System
IFM	Initial Foot Monitor
INP	Initial Notification Point
IPZ	Ingestion Pathway Zone
JFO	Joint Field Office
JIC	Joint Information Center
JPIC	Joint Public Information Center
KI	Potassium Iodide
LCEOC	Lake County Emergency Operations Center

LCGHD	Lake County General Health District
LEADS	Law Enforcement Automated Data System
LEC	Law Enforcement Coordinator
LEERN	Law Enforcement Emergency Radio Network
MAELU	Mutual Atomic Energy Liability Underwriters
MARCS	Multi Agency Regional Communications System
MESD	Mentor Exempted School District
Met.	Meteorological
MFD	Middleton Fire Department
mR	milliRoentgen
NAWAS	National Warning System
NCS	National Communications System
NETC	National Emergency Training Center
NIMS	National Incident Management System
NMT	Nuclear Medicine Technician
NOAA	National Oceanic and Atmospheric Administration
NRC	Nuclear Regulatory Commission
NRCC	National Response Coordination Center
NRP	National Response Plan
NUMARC	Nuclear Management and Resources Council
NWS	National Weather Service
ODA	Ohio Department of Agriculture
ODH	Ohio Department of Health
ODI	Ohio Department of Insurance
ODJFS	Ohio Department of Jobs and Family Services
ODMH	Ohio Department of Mental Health
ODNR	Ohio Department of Natural Resources
ODOT	Ohio Department of Transportation
OEMA	Ohio Emergency Management Agency
OEOC	Ohio Emergency Operations Center
OEPA	Ohio Environmental Protection Agency
ONG	Ohio National Guard
ORC	Ohio Revised Code
ORO	Off-site Response Organizations
OSHP	Ohio State Highway Patrol
OSL	Optically Stimulated Luminescence
OSLD	Optically Stimulated Luminescent Detector
OSU	Ohio State University
PACP	Primary Access Control Point
PAD	Protective Action Decision
PAG	Protective Action Guide
PAOC	Post Accident Operations Committee
PAR	Protective Action Recommendation
PFD	Painesville Fire Department
PIO	Public Information Officer
PNPP	Perry Nuclear Power Plant
PPMO	Personnel Portal Monitor Operator
PRD	Permanent Reading Dosimeter
PSAP	Public Safety Answering Point

PUCO	Public Utilities Commission of Ohio
R	Roentgen
RAAC	Radiological Accident Assessment Concept Course
RAC	Regional Assistance Committee
RACES	Radio Amateur Civil Emergency Services
RCRDO	Refresher Course for Radiological Defense Officers
RCRM	Refresher Course for Radiological Monitors
REM	Roentgen Equivalent Man
REP	Radiological Emergency Preparedness
RER	Radiological Emergency Response
RERO	Radiological Emergency Response and Operations Course
REVOC	Re-entry Verification and Orientation Center
RFMTLSOG	Radiological Field Monitoring Team Leader Suggested Operational Guidance
RI/M&C	Radiological Instrumentation/Maintenance and Calibration Facility
RMIC	Radiological Monitor Instructor Course
RR/PAO	Reentry, Recovery and Post Accident Operations
RZ	Restricted Zone
SAE	Site Area Emergency
SECURE	State's Emergency Capability Using Radio Effectively
SEOC	State Emergency Operations Center
SFTC	State Field Team Communicator
SNB	Special News Bulletin
SOG	Standard Operating Guideline
SOP	Standard Operating Procedures
SR	State Route
TACP	Traffic Access Control Point
TCO	Traffic Control Officer
TCP	Traffic Control Points
TEDE	Total Effective Dose Equivalent
TL	Team Leader
TLD	Thermo Luminescent Dosimeter
uCi	microcurie
UE	Unusual Event
UHF	Ultra High Frequency
UHHS	University Hospitals Health System
USCG	U.S. Coast Guard
USDA	U.S. Department of Agriculture
VHF	Very High Frequency
VHS	Video Home System
WFD	Wickliffe Fire Department
WREP	Workshop: Radiological Emergency Preparedness

APPENDIX 2

EXERCISE EVALUATORS AND TEAM LEADERS

The following is a list of the personnel who evaluated the Perry Nuclear Power Plant REP Full Participation Plume Exposure Pathway Exercise on October 07, 2008. The letters "(T/L)" indicates evaluator Team Leaders after their organization's names. The organization each evaluator represents is indicated by the following abbreviations:

DHS	Department of Homeland Security
FEMA	Federal Emergency Management Agency
ICF	Inner City Fund International

<u>TITLE</u>	<u>NAME</u>	<u>ORGANIZATION</u>
RAC Chairman	William E. King	DHS/FEMA
Exercise Director	Gary Naskrent	DHS/FEMA
Regional Site Specialist	Carolyn Sturghill	DHS/FEMA
Team Leader – State	Delwyn Kinsley	DHS/FEMA
Team Leader – Lake County	Carolyn Sturghill	DHS/FEMA
Team Leader – Ashtabula County	William Sulinckas	DHS/FEMA
Team Leader – Geauga County	Sandra Bailey	DHS/FEMA

DATE: 2008-10-07, SITE: Perry Nuclear Power Plant, OH

LOCATION	EVALUATOR	AGENCY
State - Initial Notification Point - Ohio Highway Patrol Dispatch Center	William McCance	ICF
State - Emergency Operations Center - Executive Room	Robert Duggleby	ICF
State - Emergency Operations Center - Operations Room	William McCance	ICF
State - Emergency Operations Center - Assessment Room	Paul Cormier Raymond Wood	ICF ICF
State - Joint Information Center - EOC	William McCance	ICF
State - Joint Information Center - Lakeland Community College	Robert Black	ICF
State - Joint Information Center - Lakeland Community College - Rumor Control	Glenn Kinnear	ICF
State - Emergency Operations Facility	Paul Nied	ICF
State - State Radiological Analyst - Lake County	Carl Bebrich David Ortman Roy Smith	DHS/FEMA DHS/FEMA ICF
State - Dosimetry Distribution Point - Briefing - (RIMC Facility)	Paul Cormier	ICF
State - Sampling Screening Point	Bernis Hannah	ICF
State - Field Monitoring Team #1	Richard Watts	ICF
State - Field Monitoring Team #2	Steve Denson	ICF
State-Field Monitoring Team Coordinator	Marynette Herndon	ICF
Lake County - Initial Notification Point	David Ortman	DHS/FEMA
Lake County - Emergency Operations Center	Carl Bebrich Richard Grundstrom David Ortman Roy Smith *Carolyn Sturghill	DHS/FEMA ICF DHS/FEMA ICF DHS/FEMA
Lake County - Joint Information Center - Lakeland Community College	Robert Black	ICF
Lake County - JIC - Lakeland Community College - Rumor Control	Glenn Kinnear	ICF
Lake County - Decision Making - Relocation, Re-entry & Return	Carl Bebrich	DHS/FEMA
Lake County - Implementation - Relocation, Re-entry and Return	Roy Smith	ICF
Lake County - Medical Services (MS-1) Drill - Transportation - Briefing - Painesville Township Fire Department	Jon Christiansen	ICF
Lake County - Medical Services (MS-1) Drill - Facilities - Lake West Hospital	Patrick Taylor	ICF
Lake County - Traffic and Access Control Point - Briefing - Madison Village Police	Jim Buckson	USDOT
Lake County - Traffic and Access Control Point - Briefing - Madison Township Police	Carl Wentzell	ICF
Lake County - Field Monitoring Team Coordinator	Bernis Hannah	ICF
Lake County - Field Monitoring Team #1	Richard Watts	ICF
Lake County - Field Monitoring Team #2	Steve Denson	ICF
Lake County - EV-2 School Interview - Perry Local School District	Bruce Swiren	ICF
Lake County - EV-2 School Interview - Mentor Exempted School District	Don Calsyn	ICF
Lake County - Field Monitoring Team Equipment Inventory	Richard Grundstrom	ICF
Lake County - Backup Route Alerting - Briefing - Perry Joint Fire Department	Don Calsyn	ICF

Lake County - Backup Route Alerting - Briefing - Mentor Fire Department	Glenn Kinnear	ICF
Lake County - Monitoring of Evacuees - Wickliffe Fire Department - Wickliffe High School	Roy Smith	ICF
Lake County - Decontamination of Evacuees - Briefing - Wickliffe Fire Department - Wickliffe High School	Daniel Prevo	ICF
Lake County - Distribution of KI to General Public - County Health Department - Wickliffe High School	Patrick Taylor	ICF
Lake County - Monitoring/Decontamination of Evacuee Vehicles - Wickliffe Fire Department - Wickliffe High School	Bernis Hannah	ICF
Lake County - Registration of Evacuees - American Red Cross - Wickliffe High School	Patrick Taylor	ICF
Lake County - Congregate Care Center - American Red Cross - Wickliffe High School	Patrick Taylor	ICF
Ashtabula County - Initial Notification Point	Gregg Dawkins	ICF
Ashtabula County - Emergency Operations Center (EOC)	Gregg Dawkins *Delwyn Kinsley David Petta Lawrence Visniesky	ICF DHS/FEMA ICF ICF
Ashtabula County - Traffic and Access Control Point - EOC Briefing - Interview - Ohio State Highway Patrol	Mark E. Dalton	ICF
Ashtabula County - Traffic and Access Control Point - EOC Briefing - Interview - County Sheriffs Department	Michael Burriss	ICF
Ashtabula County - Joint Information Center - Lakeland Community College	Robert Black	ICF
Ashtabula County - JIC - Lakeland Community College - Rumor Control	Glenn Kinnear	ICF
Ashtabula County - Decision Making - Relocation, Re-entry and Return	David Petta	ICF
Ashtabula County - Implementation - Relocation, Re-entry and Return	Lawrence Visniesky	ICF
Ashtabula County - Backup Route Alerting - Briefing - Geneva City Fire Department	Gary Goldberg	ICF
Ashtabula County - Monitoring of Evacuees - Briefing - Ashtabula Township Fire Department - Edgewood High School	Michael Burriss	ICF
Ashtabula County - Decon of Evac-Briefing - Ashtabula Twnship FD - Edgewood HS	Paul Nied	ICF
Ashtabula County - Distribution of KI to General Public - County HD - Edgewood High School	Paul Nied	ICF
Ashtabula County - Registration of Evacuees - American Red Cross - Edgewood High School	William O'Brien	ICF
Ashtabula County - Monitoring/Decontamination of Evacuee Vehicles - Interview - Ashtabula Fire Department - Edgewood High School	Paul Nied	ICF
Ashtabula County - Congregate Care Center - American Red Cross - Edgewood High School	William O'Brien	ICF
Ashtabula County - EV-2 School Interview - Geneva School District	Bruce Swiren	ICF
Geauga County - Initial Notification Point	Michael Petullo	ICF
Geauga County - Emergency Operations Center (EOC)	*Delwyn Kinsley William O'Brien Michael Petullo Daniel Prevo	DHS/FEMA ICF ICF ICF
Geauga County - Traffic and Access Control Point - EOC Briefing - Interview - Ohio State Highway Patrol	Todd Sniffin	ICF
Geauga County - Traffic and Access Control Point - EOC Briefing - Interview - County Sheriffs Department	Robert Vork	ICF

Geauga County - Joint Information Center - Lakeland Community College	Robert Black	ICF
Geauga County - JIC - Lakeland Community College - Rumor Control	Glenn Kinnear	ICF
Geauga County - Decision Making - Relocation, Re-entry and Return	Daniel Prevo	ICF
Geauga County - Implementation - Relocation, Re-entry and Return	Michael Petullo	ICF
Geauga County - Monitoring of Evacuees - Briefing - Middlefield Fire Department - Cardinal High School	Gary Goldberg	ICF
Geauga County - Decontamination of Evacuees - Briefing - Middlefield Fire Department - Cardinal High School	Robert Vork	ICF
Geauga County -- Distribution of KI to General Public - County Health Department - Cardinal High School	Robert Vork	ICF
Geauga County - Registration of Evacuees - American Red Cross - Cardinal High School	Carl Bebrich	DHS/FEMA
Geauga County -Monitoring/Decontamination of Evacuee Vehicles - Interview - Middlefield Fire Department - Cardinal High School	Robert Black	ICF
Geauga County - Monitoring/Decontamination of Emergency Worker - Briefing - Chardon Fire Depaartment - Chardon High School	Jon Christiansen	ICF
Geauga County - Monitoring/Decontamination of Emergency Worker Equipment and Vehicles Briefing - Chardon Fire Department - Chardon High School	Marynette Herndon	ICF
Geauga County - Congregate Care Center - Cardinal High School - American Red Cross	Carl Bebrich	DHS/FEMA
* Team Leader		

APPENDIX 3

EXERCISE OBJECTIVES AND EXTENT-OF-PLAY AGREEMENT

This appendix lists the exercise criteria that were scheduled for demonstration in the Perry Nuclear Power Plant REP Full Participation Plume Exposure Pathway Exercise on October 07, 2008, and the off-site extent of play agreement approved by DHS/FEMA on September 29, 2008.

The exercise criteria, contained in FEMA, Radiological Emergency Preparedness Exercise Evaluation Methodology, as published in the Federal Register Notice/Vol 67, No 80, dated April 25, 2002, 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 REP criteria scheduled for demonstration during this exercise.

PERRY NUCLEAR POWER PLANT
FULL PARTICIPATION EXERCISE

EXTENT OF PLAY AGREEMENT

State of Ohio

OCTOBER 7, 2008

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

Evaluation Area 1 – Emergency Operations Management

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

Extent of Play

The State Emergency Operations Center (SEOC) and the Ohio Highway Patrol Dispatch Center will receive initial notification over the 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
County Liaisons
They will be in place 20 minutes after Declaration of Alert.

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

Extent of Play

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

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

Extent of Play

Direction and control of state activities will be demonstrated at the SEOC. The Executive Director of Ohio EMA will be positioned in the SEOC Executive Room and will coordinate decisions on behalf of the Governor's office. The Operations Branch Director/Operations Section Coordinator 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 to the Executive Room.

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.

Extent of Play

The primary means of communications between the State EOC and the County EOCs, forward JIC (Lakeland Community College), 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.

Extent of Play

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

Evaluation Area 2 – Protective Action Decision Making

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

Extent of Play

The 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 SEOC Executive group and subsequently to the County EOC's (Lake,

Ashtabula, and Geauga). County EOCs will disseminate recommendations to their emergency workers. Field monitoring data will be provided to the SEOC Assessment Room via controller injects.

The State Field Monitoring Teams (FMT's) will be demonstrated out of sequence on October 6.

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

Extent of Play

The 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 Lake, Ashtabula, and Geauga County EOCs via a conference line (Perry Nuclear Power Plant 5-way) established in the Assessment Room.

The State Field Monitoring Teams (FMT's) will be demonstrated out of sequence on October 6.

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

Extent of Play

The Governor or his designee will demonstrate the ability to make appropriate protective action recommendations based on technical information from the SEOC Assessment Room. Recommendations concerning the use of KI for the general public, institutionalized 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 Lake, Ashtabula, and Geauga 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.

Extent of Play

The recommendation to take KI is developed by the Ohio Department of Health in the Assessment Room and provided to the SEOC Executive Room. Upon approval in the Executive Room, it is then forwarded to Lake, Ashtabula, and Geauga 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.

Extent of Play

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.

Extent of Play

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.

Extent of Play

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.

The FMTs and Sample Screening Point will be demonstrated out of sequence on October 6. A dosimetry briefing for the Field Monitoring Teams will be conducted at the Radiological Instrument Maintenance and Calibration Facility (RIMC) during their out of sequence demonstration on October 6 at approximately 5:30 am.

Information from the FMTs will be provided to the SEOC via controller injects on October 7.

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

Extent of Play

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. The recommendation to take KI is issued by the Ohio Department of Health at the SEOC. KI Ingestion will be simulated.

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

Extent of Play

N/A - This is a county function.

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

Extent of Play

N/A - This is a county function.

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

Extent of Play

The SEOC Assessment Room will procedurally demonstrate restricting air, water and rail traffic within the Emergency Planning Zone. Information on actions taken will be provided to the SEOC Executive group.

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

Extent of Play

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.

Extent of Play

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.

Extent of Play

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.

Extent of Play

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.

Extent of Play

Two Department of Health/Ohio EMA Field Monitoring Teams (FMTs) will participate in the exercise. The teams will be demonstrated out-of-sequence at the Lake County EOC 10:00 A.M. on October 6th. FMTs 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.

Extent of Play

Department of Health/Ohio EMA FMTs will be demonstrated out-of-sequence at 10:00 AM on October 6th. Radiation readings will be provided to the FMTs using Plume

Tracker. 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.

Extent of Play

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 Lake 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 Lake County EMA at 10:00 AM on October 6th. 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.

Extent of Play

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.

Extent of Play

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

Extent of Play

The State will consult with the county EOCs in the SEOC Executive Room 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, Lake County in coordination with Ashtabula and Geauga counties will simulate the activation of the sirens. EAS messages will be prepared by County EOC's who will provide them to the EAS Stations. (See Lake, Ashtabula, and Geauga counties Extent of Play Agreements for further details.)

Criterion 5.a.2: [RESERVED]

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

Extent of Play

N/A - This is a county function.

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

Extent of Play

The State PIO and a representative from the Ohio Department of Health will be present at the JIC (Lakeland Community College) 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 JIC (Lakeland Community College).

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.

Extent of Play

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.

Extent of Play

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.

Extent of Play

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.

Extent of Play

N/A - This is a county function.

Extent-of-Play Agreement

For the
Perry Nuclear Power Plant
Evaluated Exercise

Week of
October 6, 2008

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 Chairman of the Radiological Preparedness Coordinating 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.

Extent of Play

Lake County EOC Staff will mobilize upon notification from the Lake County Sheriff's Central Communications Dispatch Center, which is the 24-hour notification point and receives the call via a dedicated line from the Perry Plant. Full field notification utilizing primary means of communication will be completed one time only from the EOC, at the Site Area Emergency classification.

Field agency demonstrations will be conducted out-of-sequence and participants will be pre-positioned.

Field activity participants

Mentor Fire Department – Back-up Route Alerting
Perry Joint Fire District – Back-up Route Alerting
Wickliffe Fire Department – Public Monitoring & Decontamination at Wickliffe High School Care Center
Perry Local School District – Risk School
Mentor Exempted School District – Risk School
American Red Cross – Evacuee registration & congregate care
Lake County General Health District Field Monitoring Teams
Lake West Hospital - Medical Services (MS-1)
Madison Township Police Department – Traffic/Access Control
Madison Village Police Department – Traffic/Access Control
Painesville Township Fire Department – MS-1 Transportation

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

Extent of Play

All facilities involved in the 2008 exercise, with the exception of Wickliffe High School care center have participated in an Evaluated Exercise under the existing criterion.

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

Extent of Play

Direction and control of emergency operations will be demonstrated in accordance with the exercise scenario, the Lake County Radiological Emergency Response Plan, Agency SOG and as appropriate for out-of-sequence field demonstrations.

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

Extent of Play

Primary (dedicated phone lines and commercial telephone) and secondary (radio/pagers/cell phones) means of communications will be demonstrated at the EOC and as appropriate for out-of-sequence field demonstrations. Controllers will drive field play.

Full field notification utilizing primary means of communication will be completed one time only from the EOC, at the Site Area Emergency classification.

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

Extent of Play

The EOC will demonstrate the use of equipment, maps and displays to support emergency operations.

In addition to the KI that was pre-distributed by the local health department to the general public in 2003, there is a quantity stockpiled at the EOC that would be transported to the care centers and distributed by the local health department, as requested. The expiration date for the KI has been extended by the FDA and communicated in a letter received from the Ohio Department of Health until May 2009.

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.

Extent of Play

Lake County relies on the Ohio Department of Health (ODH) for the recommendation to take KI. For out-of-sequence field agency demonstrations, this will be demonstrated by interview with exercise participants or by controller inject, if necessary.

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

Extent of Play

N/A – Lake County does not demonstrate this criterion; it relies on the State of Ohio.

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

Extent of Play

The Lake County EOC Executive Group will demonstrate this criterion in coordination with Geauga and Ashtabula counties' Executive Groups and the State of Ohio.

The Director, or designee, of the Ohio Department of Health (ODH) makes the decision for the general public and emergency workers to take KI. The ODH through the local health department makes KI available to the general public, by pre-distribution and by supplies available for distribution at the time of the emergency at care centers.

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

Extent of Play

The Lake County EOC Executive Group will demonstrate this criterion in coordination with Geauga and Ashtabula counties' Executive Groups. Schools follow the protective action decisions for the general public; they are not considered a special population group.

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

Extent of Play

N/A – Lake 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 the radiological conditions and criteria in the ORO's plan and/or procedures.

Extent of Play

The emergency phase of the exercise will terminate at mid-afternoon. After a short break, an Exercise Controller/Facilitator will provide the new scenario and explanation of events. Lake County will demonstrate this criterion in a tabletop discussion, in coordination with Ashtabula and Geauga counties.

Relocation: The standard method will be used to determine the boundary for relocation. Decisions to relocate individuals who have not yet been evacuated but live in areas that exceed the PAGs, and control of access to restricted areas will be demonstrated. Members of the public who have been evacuated but who lived in areas that now exceed the PAGs will be relocated.

Re-entry: A restricted area will be established based on PAGs. The location of control points will be indicated and policies regarding access and exposure control for emergency workers and members of the general public who need to enter the restricted area will be discussed.

Return: The ORO will permit return to the previously evacuated areas outside the restricted zone. Conditions that permit cancellation of the Emergency Classification Level and the relaxation of associated restrictive measures will be discussed.

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.

Extent of Play

The Lake County EOC Radiological Officer will demonstrate radiation exposure control capabilities. Dosimetry and exposure control procedures will be demonstrated by field agencies during out-of-sequence exercise activities.

Field activity participants:

Dosimetry briefing:

Mentor Fire Department – Back-Up Route Alerting
Perry Joint Fire District – Back-Up Route Alerting
Wickliffe Fire Department – Public Monitoring/Decontamination at care center
Lake County General Health District Field Monitoring Teams
Madison Village Police Department – Traffic/Access Control at department
Madison Township Police Department – Traffic/Access Control at department
Painesville Township Fire Department – MS-1 Transportation

Dosimetry available, no briefing:

Perry Local School District – Interview of Transportation Supervisor & bus operator only
Mentor Exempted School District – Interview of Transportation Supervisor & bus operator only
Lake West Hospital – MS-1

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

Extent of Play

The Ohio Department of Health (ODH) will make recommendations regarding the use of KI. Lake County's preparedness measures for KI include pre-distribution to emergency response agencies and to the general public, if they chose to pick it up at designated centers. At the time of the emergency, the agencies distribute the dosimetry and KI to the emergency workers. Demonstration of this criterion may be facilitated by discussion with the Lake County General Health District Coordinator at the EOC. For field agency demonstrations, KI procedures will be demonstrated by interview with exercise participants or by controller inject, if necessary.

Dosimetry and KI have been pre-distributed to Offsite Response Organizations (OROs); the monitoring kits and dosimetry are exchanged annually by the State of Ohio. Supporting documentation is included in the Annual Letter of Certification.

Extent of Play

Interview the EOC Lake County General Health District (LCGHD) representative during the exercise regarding the distribution of KI for the public at the care center.

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

Extent of Play

Notification to individuals with special needs within the Lake County portion of the EPZ will be simulated. A list of special needs residents within the Lake County portion of the EPZ is maintained by the Lake County Department of Job and Family Services and the Lake County EMA.

The Department of Job and Family Services Coordinator at the EOC will coordinate special needs notification activities and, upon request, will present the confidential list for review by the FEMA evaluator. At least 4 transportation providers, which in Lake County include school districts, will be contacted to ensure availability of buses and drivers.

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

Extent of Play

The school districts will demonstrate this criterion out-of-sequence, by interview with the superintendent, high school principal, transportation supervisor and a bus operator. School officials follow the protective action decisions made by the elected officials for the general public, if the school districts' superintendents have not made the decision to relocate prior to a General Emergency.

The use of dosimetry and KI will be discussed with transportation personnel only. **If** the school district has elected to have KI available for students, it is an internal policy and will be discussed during the interview.

During the Exercise all schools in the EPZ will be notified as identified in Criterion 1.a.1, Extent of Play. The EOC County Schools' Superintendent will follow their Suggested Operating Guideline (SOG) during the Exercise.

There will be no movement of buses or students.

Field agency participants

Perry Local School District
Mentor Exempted School District

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

Extent of Play

A representative of each police department will demonstrate Traffic and Access Control out-of-sequence, by interview at their respective stations.

Notification of rail, water and air traffic is a State function.

Field activity participants:

Madison Township Police
Madison Village Police

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

Extent of Play

Lake County EOC will demonstrate the capability to identify and take the appropriate actions in dealing with impediments to evacuation. Actual resources will not be utilized. If an impediment cannot be removed in a timely manner, the decision to reroute traffic will be discussed and implemented by the appropriate EOC Staff.

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

Extent of Play

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

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

Extent of Play

N/A – Lake 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.

Extent of Play

The period from mid-to-late afternoon of October 7, 2008, will be allocated to re-entry, relocation and return activities. Select EOC Staff members will demonstrate this criterion.

The emergency phase of the exercise will terminate at mid-afternoon. After a short break, an Exercise Controller/Facilitator will provide the new scenario and explanation of events. Lake County will demonstrate this criterion in a tabletop discussion, in coordination with Ashtabula and Geauga counties.

Communications to outside agencies or individuals will be simulated.

Relocation: The standard method will be used to determine the boundary for relocation. Decisions to relocate individuals who have not yet been evacuated but live in areas that exceed the PAGs, and control of access to restricted areas will be demonstrated. Members of the public who have been evacuated but who lived in areas that now exceed the PAGs will be relocated. Methods used to communicate instructions to the public regarding relocation decisions will be discussed.

Re-entry: A restricted area will be established based on PAGs. The location of control points will be indicated and policies regarding access and exposure control for emergency workers and members of the general public who need to enter the restricted area will be discussed. Monitoring and decontamination facilities will be discussed, as appropriate. The assignment of, and checking for direct-reading and permanent reading dosimetry for emergency workers, individuals' objectives and locations expected to be visited and associated timeframes, advice on areas to avoid and procedures for exit, including monitoring and decontamination of personnel and vehicles will be discussed.

Return: The ORO will demonstrate the capability to implement policies concerning return to the previously evacuated areas outside the restricted zone. Services and facilities that require restoration and the procedures and resources required will be identified and prioritized through discussion. All communications, both actual and simulated will be documented. The notification of State or Federal resources will be simulated.

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.

Extent of Play

Lake County General Health District will demonstrate the use of two Field Monitoring Teams (FMTs), in sequence.

Prior to the exercise and at the Lake County EOC, a FEMA evaluator will review contents of the FMT vehicles; an equipment inventory list will be provided to the evaluator to verify availability of supplies and equipment. At the conclusion of the equipment review, all seals will be replaced in order to indicate that all required supplies and equipment are contained within.

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

Extent of Play

Lake County Health District will demonstrate the use of two Field Monitoring Teams (FMTs), in sequence.

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

Extent of Play

For the exercise, expired silver zeolite cartridges will be used; new cartridges will be available for the FEMA evaluator's observation.

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

Extent of Play

N/A - Lake 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.

Extent of Play

N/A - Lake 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:

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

Extent of Play

Upon a protective action decision (PAD) by the combined Executive Groups of Ashtabula, Geauga and Lake Counties, the Lake County EOC Staff will prepare the appropriate Emergency Alert System (EAS) message and simulate sounding the sirens and sending the message over the EAS system. A quiet siren test will be demonstrated by the Lake County EOC in lieu of an actual siren sounding.

Simulation of sending the EAS message(s) will be conducted as follows:

The procedure for the EAS encoder will be followed to deliver the message to WTAM, the Local Primary Station, with the exception that the telephone number to the station will not be dialed. By not connecting to WTAM, there is no possibility of accidentally broadcasting the message over one or more of the participating EAS stations.

The "send" button on the Lake County EAS encoder will be depressed and this action will activate the outgoing alert light and playback of the recorded message. Also, a data sheet will automatically be printed by the encoder and the time recorded on the data sheet. Ashtabula and Geauga counties have EAS equipment (encoder) and could perform this function, if necessary.

Lake County will fax a copy of the EAS message(s) to the Joint Information Center (JIC) where Public Information Officers (PIOs) may distribute hard copies to the news media representatives and may, if time and circumstances permit, make an announcement regarding the message. Otherwise, the EAS message can be announced at the next scheduled press briefing or in response to news media inquiries about the PAD message. In delivering information about the EAS message just released, the counties' PIOs may indicate that a corresponding Special News Bulletin (SNB) will be issued soon. Lake County will also fax a copy of the EAS message to Ashtabula and Geauga counties' EOCs.

Criterion 5.a.2: (RESERVED)

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

Extent of Play

The Mentor Fire Department and Perry Joint Fire Districts will demonstrate back-up route alerting as an out-of-sequence, prepositioned field activity. One predetermined siren located in Perry and one in Mentor City will be out of service (simulated) and back-up route alerting will be conducted in the siren coverage area. Use of the mobile PA system will be simulated during the demonstration; an audible PA test will be conducted prior to departure. The demonstration will be initiated by the exercise controller.

Field Activity Participants

Mentor Fire Department
Perry Joint Fire District

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

Extent of Play

Based upon the combined PAD(s) of the Executive Groups of Ashtabula, Geauga and Lake Counties, the Lake County EOC Staff will prepare and issue the appropriate EAS message(s) and the corresponding Special News Bulletin(s) (SNB). SNB's give the same message as their corresponding EAS message except SNB's provide greater detail. Lake County will FAX the SNB(s) to the Joint Information Center (JIC) where one of the counties' PIOs will represent the three counties by directly proceeding to the briefing room and reading the contents of the message to the assembly of news media representatives and answering any questions pertaining to the message. This briefing should begin in a timely manner after transmission of the EAS message from the Lake County EOC to the Local Primary EAS Station. Hard copies of the SNB(s) will be distributed to the news media representatives.

Ashtabula, Lake and Geauga counties will also coordinate release of other informational and instructional message as necessary. Such messages may include Special Information Bulletins (SIB), which are a third category of prepared messages contained in the counties' "SOG for EAS Messages, Special News Bulletins, and Special Information Bulletins pertaining to the Perry Nuclear Power Plant." These SIB's are considered routine, meaning that they are to be delivered by one of the counties' PIOs at the next scheduled press briefing.

Public Inquiry Workers at the EOC will answer calls from the public. At least one trend will be 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.

Extent of Play

Wickliffe Fire Department will demonstrate the evacuee portion of this criterion out-of-sequence at Wickliffe High School. One locker room will be fully set up and demonstrated; a walk-through of the remaining locker room will be conducted upon request.

Six (6) monitoring demonstrations will be conducted using a portal monitor. One individual with simulated contamination will be walked through the monitoring/decontamination process, which includes whole body monitoring using a CDV-700RP survey meter; contamination levels will be provided by a controller. Decontamination will be simulated.

Monitoring and decontamination of evacuees' vehicles will be conducted by interview only; no actual monitoring or decontamination will take place.

Field activity participants

Wickliffe Fire Department – Public M/D
American Red Cross – Evacuee registration
Lake County General Health District – KI for the general public

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

Extent of Play

N/A – Lake County will not demonstrate this criterion.

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

Extent of Play

The American Red Cross will demonstrate the congregate care center portion of this criterion out-of-sequence at Wickliffe High School. American Red Cross personnel will provide a walk-through of the facility and describe their capabilities. Set-up of care center equipment or supplies will be at the discretion of the American Red Cross.

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

Extent of Play

Painesville Township Fire Department will demonstrate this criterion in sequence with the on-site scenario. A simulated contaminated/injured victim from the Perry Power Plant will be transported to Lake West Hospital. No emergency lights and/or sirens will be used.

ASHTABULA COUNTY OHIO

Extent-of-Play Agreement

For the
Perry Nuclear Power Plant
Evaluated Exercise

Week of
October 6, 2008

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 Chairman of the Radiological Preparedness Coordinating 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.

Extent of Play

Ashtabula County EOC Staff will mobilize upon notification from the Ashtabula County Sheriff's Dispatch Center, which is the 24-hour notification point and receives the call via a dedicated line from the Perry Plant. Full field notification utilizing primary means of communication will be completed one time only from the EOC, at the Site Area Emergency classification.

Field agency demonstrations will be conducted out-of-sequence and participants will be pre-positioned.

Field activity participants

Geneva City Fire Department – Back-up Route Alerting
Traffic/Access Control by interview only at the EOC during the Exercise
Ohio State Highway Patrol EOC Representative
Ashtabula Sheriff's Department - EOC Law Enforcement Coordinator
Ashtabula Township Fire Department – Public Monitoring/Decontamination
American Red Cross – Evacuee registration & congregate care
Edgewood High School – Care Center
Geneva School District – Risk School

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

Extent of Play

All facilities involved in the 2008 exercise have participated in an Evaluated Exercise under the existing criterion.

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

Extent of Play

Direction and control of emergency operations will be demonstrated in accordance with the exercise scenario, the Ashtabula County Radiological Emergency Response Plan, Agency SOG and as appropriate for out-of-sequence field demonstrations.

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

Extent of Play

Primary (dedicated phone lines and commercial telephone) and secondary (radio/pagers/cell phones) means of communications will be demonstrated at the EOC and as appropriate for out-of-sequence field demonstrations. Controllers will drive field play.

Full field notification utilizing primary means of communication will be completed one time only from the EOC, at the Site Area Emergency classification.

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

Extent of Play

The EOC will demonstrate the use of equipment, maps and displays to support emergency operations.

In addition to the KI that was pre-distributed by the local health department to the general public in 2003, there is a quantity stockpiled at the EOC that would be transported to the care centers and distributed by the local health department, as requested. The expiration date for the KI has been extended by the FDA and communicated in a letter received from the Ohio Department of Health until May 2009.

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.

Extent of Play

Ashtabula County relies on the Ohio Department of Health (ODH) for the recommendation to take KI. For out-of-sequence field agency demonstrations, this will be demonstrated by interview with exercise participants or by controller inject, if necessary.

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

Extent of Play

N/A – Ashtabula County does not demonstrate this criterion. It relies on the State of Ohio.

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

Extent of Play

The Ashtabula County EOC Executive Group will demonstrate this criterion in coordination with Lake and Geauga counties' Executive Groups and the State of Ohio.

The Director, or designee, of the Ohio Department of Health (ODH) makes the decision for the general public and emergency workers to take KI. The ODH through the local health department makes KI available to the general public, by pre-distribution and by supplies available for distribution at the time of the emergency at care centers.

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

Extent of Play

The Ashtabula County EOC Executive Group will demonstrate this criterion in coordination with Lake and Geauga counties' Executive Groups. Schools follow the protective action decisions for the general public; they are not considered a special population group.

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

Extent of Play

N/A – Ashtabula 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 the radiological conditions and criteria in the ORO's plan and/or procedures.

Extent of Play

The emergency phase of the exercise will terminate at mid-afternoon. After a short break, an Exercise Controller/Facilitator will provide the new scenario and explanation of events. Ashtabula County will demonstrate this criterion in a tabletop discussion, in coordination with Lake and Geauga counties.

Relocation: The standard method will be used to determine the boundary for relocation. Decisions to relocate individuals who have not yet been evacuated but who live in areas where exposure exceeds the PAGs will be demonstrated, as well as access control to restricted areas. Members of the public who have been evacuated and who lived in areas that now exceed the PAGs will be relocated.

Re-entry: A restricted area will be established based on PAGs. The location of control points will be indicated, and policies regarding access and exposure control for emergency workers and members of the general public who need to enter the restricted area will be discussed.

Return: The ORO will permit return to the previously evacuated areas outside the restricted zone. Conditions that permit cancellation of the Emergency Classification Level and the relaxation of associated restrictive measures will be discussed.

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.

Extent of Play

The Ashtabula County EOC Radiological Officer will demonstrate radiation exposure control capabilities. Dosimetry and exposure control procedures will be demonstrated by field agencies during out-of-sequence exercise activities.

Field activity participants:

Dosimetry briefing:

Geneva City Fire Department – Back-Up Route Alerting
Ashtabula Township Fire Department – Public Monitoring/Decontamination

Interview & Dosimetry Briefing

Ashtabula County Sheriff's Department – at the EOC during the Exercise
Ohio State Highway Patrol – at the EOC during the Exercise

Interview only, no dosimetry briefing:

Geneva School District – Transportation Supervisor & bus operator only

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

Extent of Play

The Ohio Department of Health (ODH) will make recommendations regarding the use of KI. Ashtabula County's preparedness measures for KI include pre-distribution to emergency response agencies and the general public, if they chose to pick it up. At the time of the emergency, the agencies distribute the dosimetry and KI to the emergency workers.

If the ODH recommendation for use of KI excludes the portion of the EPZ that is in Ashtabula County, demonstration of this criterion will be facilitated by discussion with the Ashtabula County Radiological Officer at the EOC. For field agency demonstrations, KI procedures will be demonstrated by interview with exercise participants or by controller inject, if necessary.

Dosimetry and KI have been pre-distributed to Offsite Response Organizations (OROs); the monitoring kits and dosimetry are exchanged annually by the State of Ohio. Supporting documentation is included in the Annual Letter of Certification.

Extent of Play

Interview the EOC Ashtabula County Health Department representative at the EOC during the exercise regarding the distribution of KI for the public at the care center.

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

Extent of Play

Notification to individuals with special needs within the Ashtabula County portion of the EPZ will be simulated. The Ashtabula County EMA maintains a list of special needs organizations within the Ashtabula County portion of the EPZ. The EOC Job and Family Services Representative will coordinate special needs notification activities and, upon request, will present the list for review by the FEMA evaluator. At least 2 transportation providers, which in Ashtabula County are school districts, will be contacted to ensure availability of buses and drivers.

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

Extent of Play

The school district will demonstrate this criterion out-of-sequence, by interview with the superintendent, high school principal, transportation supervisor and a bus operator. School officials follow the protective action decisions made by the elected officials for the general public, if the school districts' superintendents have not made the decision to relocate prior to a General Emergency.

The use of dosimetry and KI will be discussed with transportation personnel only. If the school district has elected to have KI available for students, it is an internal policy and will be discussed during the interview.

There will be no movement of buses or students.

Field activity participants

Geneva School District

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

Extent of Play

The EOC Ohio State Highway Patrol's (OSHP) representative and the EOC Ashtabula County Sheriff's Department Law Enforcement Coordinator will demonstrate Traffic and Access Control by interview at the Ashtabula EOC during the exercise.

Notification of rail, water and air traffic is a State function.

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

Extent of Play

Ashtabula County EOC will demonstrate the capability to identify and take the appropriate actions in dealing with impediments to evacuation. Actual resources will not be utilized. If an impediment cannot be removed in a timely manner, the decision process to re-route traffic will be discussed and implemented by the appropriate EOC Staff.

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

Extent of Play

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

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

Extent of Play

N/A – Ashtabula 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.

Extent of Play

The period from mid-to-late afternoon of October 7, 2008, will be allocated to re-entry, relocation and return activities. Select EOC Staff members will demonstrate this criterion.

The emergency phase of the exercise will terminate at mid-afternoon. After a short break, an Exercise Controller/Facilitator will provide the new scenario and explanation of events. Ashtabula County will demonstrate this criterion in a tabletop discussion, in coordination with Lake and Geauga counties.

If Ashtabula County is not directly affected by the restricted zone, the EOC Staff will demonstrate its ability to decide matters concerning re-entry, relocation and return via an Exercise Controller led discussion.

Communications to outside agencies or individuals will be simulated.

Relocation: The standard method will be used to determine the boundary for relocation. Decisions to relocate individuals who have not yet been evacuated but live in areas that exceed the PAGs, and control of access to restricted areas will be demonstrated. Members of the public who have been evacuated and who lived in areas that now exceed the PAGs will be relocated. Methods used to communicate instructions to the public regarding relocation decisions will be discussed.

Re-entry: A restricted area will be established based on PAGs. The location of control points will be indicated, and policies regarding access and exposure control for emergency workers and members of the general public who need to enter the restricted area will be discussed. Monitoring and decontamination facilities will be discussed, as appropriate. The assignment of, and checking for, direct-reading and permanent reading dosimetry for emergency workers, individuals' objectives and locations expected to be visited and associated timeframes, advice on areas to avoid and procedures for exit, including monitoring and decontamination of personnel and vehicles, will be discussed.

Return: The ORO will demonstrate the capability to implement policies concerning return to the previously evacuated areas outside the restricted zone. Services and facilities that require restoration and the procedures and resources required will be identified and prioritized through discussion. All communications, both actual and simulated will be documented. The notification of State of Federal resources will be simulated.

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.

Extent of Play

N/A – Ashtabula County does not demonstrate this criterion.

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

Extent of Play

N/A – Ashtabula County does not demonstrate this criterion.

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

Extent of Play

N/A – Ashtabula County does not demonstrate this criterion.

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

Extent of Play

N/A - Ashtabula County does not demonstrate this criterion.

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

Extent of Play

N/A – Ashtabula County does not demonstrate this criterion.

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
Identification of the commercial nuclear power plant and a statement that an emergency situation exists at the plant

Reference to REP-specific emergency information (e.g., brochures and information in telephone books) for use by the general public during an emergency
A closing statement asking the affected and potentially affected population to stay tuned for additional information.

Extent of Play

Upon a protective action decision (PAD) by the combined Executive Groups of Ashtabula, Lake and Geauga counties, the Lake County EOC Staff will prepare the appropriate Emergency Alert System (EAS) message and simulate sounding the sirens and sending the message over the EAS system. A quiet siren test will be demonstrated by the Lake County EOC in lieu of an actual siren sounding.

Simulation of sending the EAS message(s) will be conducted as follows:

The procedure for the EAS encoder will be followed to deliver the message to WTAM, the Local Primary Station, with the exception that the telephone number to the station will not be dialed. By not connecting to WTAM, there is no possibility of accidentally broadcasting the message over one or more of the participating EAS stations.

The “send” button on the Lake County EAS encoder will be depressed, and this action will activate the outgoing alert light and playback of the recorded message. Also, a data sheet will automatically be printed by the encoder and the time recorded on the data sheet. Ashtabula and Geauga counties have EAS equipment (encoder) and could provide this function if necessary.

Lake County will fax a copy of the EAS message(s) to the Joint Information Center (JIC) where Public Information Officers (PIOs) may distribute hard copies to the news media representatives and may, if time and circumstances permit, make an announcement

regarding the message. Otherwise, the EAS message can be announced at the next scheduled press briefing or in response to news media inquiries about the PAD message.

In delivering information about the EAS message just released, the counties' PIOs may indicate that a corresponding Special News Bulletin (SNB) will be issued soon. Lake County will also fax a copy of the EAS message to Ashtabula and Geauga counties' EOC's.

Criterion 5.a.2: (RESERVED)

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

Extent of Play

Geneva City Fire Department will demonstrate back-up route alerting as an out-of-sequence, pre-positioned field activity. One pre-determined siren located in the fire department's jurisdiction will be out-of-service (simulated) and back-up route alerting will be conducted in the siren coverage area. Use of the mobile PA system will be simulated during the demonstration; an audible PA test will be conducted prior to departure. The demonstration will be initiated by the exercise controller.

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

Extent of Play

Based upon the combined PAD(s) of the Executive Groups of Ashtabula, Geauga and Lake counties, the Lake County EOC Staff will prepare and issue the appropriate EAS message(s) and the corresponding Special News Bulletin(s) (SNB). SNB's give the same message as their corresponding EAS message except SNB's provide greater detail.

Lake County will FAX the SNB(s) to the Joint Information Center (JIC) where one of the counties' PIOs will represent the three counties by directly proceeding to the briefing room and reading the contents of the message to the assembly of news media representatives and answering any questions pertaining to the message.

This briefing should begin in a timely manner after transmission of the EAS message from the Lake County EOC to the Local Primary EAS Station. Hard copies of the SNB(s) will be distributed to the news media representatives.

Ashtabula, Geauga and Lake Counties will also coordinate release of other informational and instructional message, as necessary. Such messages may include Special Information

Bulletins (SIB), which are a third category of prepared messages contained in the counties' "SOG for EAS Messages, Special News Bulletins, and Special Information Bulletins pertaining to the Perry Nuclear Power Plant." These SIB's are considered routine, meaning that they are to be delivered by one of the counties' PIOs at the next scheduled press briefing.

Public Inquiry Workers at the EOC will answer calls from the public. At least one trend will be 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.

Extent of Play

Ashtabula Township Fire Department will demonstrate the evacuee portion of this criterion out-of-sequence at Edgewood High School, 24289 Blake Road, Ashtabula. One locker room will be fully set up and demonstrated; a walk-through of the remaining locker room will be conducted upon request.

Six (6) monitoring demonstrations will be conducted using a portal monitor. One individual with simulated contamination will be walked through the monitoring/decontamination process, which includes whole body monitoring using a CDV-700RP survey meter; contamination levels will be provided by a controller. Decontamination will be simulated.

Monitoring and decontamination of evacuees' vehicles will be demonstrated by interview only; no actual monitoring or decontamination will take place.

Field activity participants

Ashtabula Township Fire Department – Public M/D
American Red Cross – Evacuee registration
Ashtabula County Health District – KI for the general public

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

Extent of Play

N/A – Ashtabula County will not demonstrate this criterion.

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

Extent of Play

The American Red Cross will demonstrate the congregate care center portion of this criterion out-of-sequence at Edgewood High School, 2428 Blake Road, Ashtabula. American Red Cross personnel will provide a walk-through of the facility and describe their capabilities. Set-up of care center equipment or supplies will be at the discretion of the American Red Cross Disaster Action Team Leader.

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

Extent of Play

N/A – Ashtabula County does not demonstrate this criterion.

GEAUGA COUNTY
OHIO

Extent-of-Play Agreement

For the
Perry Nuclear Power Plant
Evaluated Exercise

Week of
October 6, 2008

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 Chairman of the Radiological Preparedness Coordinating 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.

Extent of Play

Geauga County EOC Staff will mobilize upon notification from the Geauga County Sheriff's Dispatch Center, which is the 24-hour notification point and receives the call via a dedicated line from the Perry Plant. Full field notification utilizing primary means of communication will be completed one time only from the EOC, at the Site Area Emergency classification.

Field agency demonstrations will be conducted out-of-sequence and participants will be pre-positioned.

Field activity participants

Middlefield Fire Department – Public Monitoring & Decontamination
Cardinal High School – Care Center
American Red Cross – Evacuee registration & congregate care
Traffic/Access Control by interview only at the EOC during the Exercise
Ohio State Highway Patrol EOC Representative
Geauga County Sheriff's Office – EOC Sheriff's Designate
Chardon Fire Department – Emergency Worker M/D
Chardon High School – EWM/D facility

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

Extent of Play

All facilities involved in the 2008 exercise have participated in an Evaluated Exercise under the existing criterion.

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

Extent of Play

Direction and control of emergency operations will be demonstrated in accordance with the exercise scenario, the Geauga County Radiological Emergency Response Plan, Agency SOG and as appropriate for out-of-sequence field demonstrations.

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

Extent of Play

Primary (dedicated phone lines and commercial telephone) and secondary (radio/pagers/cell phones) means of communications will be demonstrated at the EOC and as appropriate for out-of-sequence field demonstrations. Controllers will drive field play.

Full field notification utilizing primary means of communication will be completed one time only from the EOC, at the Site Area Emergency classification.

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

Extent of Play

The EOC will demonstrate the use of equipment, maps and displays to support emergency operations.

In addition to the KI that was pre-distributed by the local health department to the general public in 2003, there is a quantity stockpiled at the EOC that would be transported to the care centers and distributed by the local health department, as requested. The expiration date for the KI has been extended by the FDA and communicated in a letter received from the Ohio Department of Health until May 2009.

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.

Extent of Play

Geauga County relies on the Ohio Department of Health (ODH) for the recommendation to take KI. For out-of-sequence field agency demonstrations, this will be demonstrated by interview with exercise participants or by controller inject, if necessary.

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

Extent of Play

N/A – Geauga County does not demonstrate this criterion; it relies on the State of Ohio for field monitoring.

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

Extent of Play

The Geauga County EOC Executive Group will demonstrate this criterion in coordination with Lake and Ashtabula counties' Executive Groups and the State of Ohio.

The Director, or designee, of the Ohio Department of Health (ODH) makes the decision for the general public and emergency workers to take KI. The ODH through the local health department makes KI available to the general public, by pre-distribution and by supplies available for distribution at the time of the emergency at care centers.

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

Extent of Play

The Geauga County EOC Executive Group will demonstrate this criterion in coordination with Lake and Ashtabula counties' Executive Groups. Schools follow the protective action decisions for the general public; they are not considered a special population group.

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

Extent of Play

N/A – Geauga 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 the radiological conditions and criteria in the ORO's plan and/or procedures.

Extent of Play

The emergency phase of the exercise will terminate at mid-afternoon. After a short break, an Exercise Controller/Facilitator will provide the new scenario and explanation of events. Geauga County will demonstrate this criterion in a tabletop discussion, in coordination with Lake and Ashtabula counties.

Relocation: The standard method will be used to determine the boundary for relocation. Decisions to relocate individuals who have not yet been evacuated but live in areas that exceed the PAGs, and control of access to restricted areas will be demonstrated. Members of the public who have been evacuated but who lived in areas that now exceed the PAGs will be relocated.

Re-entry: A restricted area will be established based on PAGs. The location of control points will be indicated and policies regarding access and exposure control for emergency workers and members of the general public who need to enter the restricted area will be discussed.

Return: The ORO will permit return to the previously evacuated areas outside the restricted zone. Conditions that permit cancellation of the Emergency Classification Level and the relaxation of associated restrictive measures will be discussed.

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.

Extent of Play

The Geauga County EOC Radiological Officer will demonstrate radiation exposure control capabilities. Dosimetry and exposure control procedures will be demonstrated by field agencies during out-of-sequence exercise activities.

Field activity participants:

Dosimetry briefing:

Middlefield Fire Department – Public Monitoring/Decontamination

Chardon Fire Department – Emergency Worker Monitoring/Decontamination

Interview & dosimetry briefing:

Ohio State Highway Patrol – at the EOC during the Exercise

Gauga County Sheriff's Office – at the EOC during the Exercise

Criterion 3.b.1: KI and appropriate instructions are available should a decision to recommend use of KI be made. Appropriate record keeping of the administration of KI

for emergency workers and institutionalized individuals (not the general public) is maintained.

Extent of Play

The Ohio Department of Health (ODH) will make recommendations regarding the use of KI. Geauga County's preparedness measures for KI include pre-distribution to emergency response agencies and to the general public, if they chose to pick it up at designated centers. At the time of the emergency, the agencies distribute the dosimetry and KI to the emergency workers. If the ODH recommendation for use of KI excludes the portion of the EPZ that is in Geauga County, demonstration of this criterion may be facilitated by discussion with the Geauga County Radiological Officer at the EOC. For field agency demonstrations, KI procedures will be demonstrated by interview with exercise participants or by controller inject, if necessary.

Dosimetry and KI have been pre-distributed to Offsite Response Organizations (OROs); the monitoring kits and dosimetry are exchanged annually by the State of Ohio. Supporting documentation is included in the Annual Letter of Certification.

Extent of Play

Interview the Lake County Health District representative at the EOC during the exercise regarding the distribution of KI for the public at the care center.

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

Extent of Play

Notification to individuals with special needs within the Geauga County portion of the EPZ will be simulated. A list of special needs residents within the Geauga County portion of the EPZ is maintained by the Geauga County Department of Emergency Services (DES). The Fire/EMS Officer at the EOC will coordinate special needs notification activities and, upon request, will present the confidential list for review by the FEMA evaluator. At least 2 transportation providers, which in Geauga County include school districts, will be contacted to ensure availability of buses and drivers.

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

N/A – This Criterion was demonstrated in 2006 by Ledgemont School District, the only school district in Geauga County that is within the EPZ.

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

Extent of Play

The EOC Ohio State Highway Patrol (OSHP) representative and the EOC Geauga County Sheriff's Designate will demonstrate Traffic and Access Control by interview at the Geauga County EOC during the exercise.

Notification of rail, water and air traffic is a State function.

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

Extent of Play

Gauga County EOC will demonstrate the capability to identify and take the appropriate actions in dealing with impediments to evacuation. Actual resources will not be utilized. If an impediment cannot be removed in a timely manner, the decision to reroute traffic will be discussed and implemented by the appropriate EOC staff.

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

Extent of Play

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

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

Extent of Play

N/A – Geauga 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.

Extent of Play

The period from mid-to-late afternoon of October 7, 2008, will be allocated to re-entry, relocation and return activities. Select EOC Staff members will demonstrate this criterion.

The emergency phase of the exercise will terminate at mid-afternoon. After a short break, an Exercise Controller/Facilitator will provide the new scenario and explanation of

events. Geauga County will demonstrate this criterion in a tabletop discussion, in coordination with Lake and Ashtabula counties.

If Geauga County is not directly affected by the restricted zone, the EOC Staff will demonstrate its ability to decide matters concerning re-entry, relocation and return via an Exercise Controller led discussion.

Communications to outside agencies or individuals will be simulated.

Relocation: The standard method will be used to determine the boundary for relocation. Decisions to relocate individuals who have not yet been evacuated but live in areas that exceed the PAGs, and control of access to restricted areas will be demonstrated. Members of the public who have been evacuated but who lived in areas that now exceed the PAGs will be relocated. Methods used to communicate instructions to the public regarding relocation decisions will be discussed.

Re-entry: A restricted area will be established based on PAGs. The location of control points will be indicated, and policies regarding access and exposure controls for emergency workers and members of the general public who need to enter the restricted area will be discussed. Monitoring and decontamination facilities will be discussed, as appropriate. The assignment of, and checking for direct-reading and permanent reading dosimetry for emergency workers, individuals' objectives and locations expected to be visited and associated timeframes, advice on areas to avoid and procedures for exit, including monitoring and decontamination of personnel and vehicles will be discussed.

Return: The ORO will demonstrate the capability to implement policies concerning return to the previously evacuated area outside the restricted zone. Services and facilities that require restoration and the procedures and resources required will be identified and prioritized through discussion. All communications, both actual and simulated will be documented. The notification of State and Federal resources will be simulated.

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.

Extent of Play

N/A – Geauga County does not demonstrate this criterion.

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

Extent of Play

N/A – Geauga County does not demonstrate this criterion.

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

Extent of Play

N/A – Geauga County does not demonstrate this criterion.

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

Extent of Play

N/A – Geauga County does not demonstrate this criterion.

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

Extent of Play

N/A – Geauga County does not demonstrate this criterion.

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

Extent of Play

Upon a protective action decision (PAD) by the combined Executive Groups of Ashtabula, Lake and Geauga counties, the Lake County EOC Staff will prepare the appropriate Emergency Alert System (EAS) message and simulate sounding the sirens and sending the message over the EAS system. A quiet siren test will be demonstrated by the Lake County EOC in lieu of an actual siren sounding.

Simulation of sending the EAS message(s) will be conducted as follows:

The procedure for the EAS encoder will be followed to deliver the message to WTAM, the Local Primary Station, with the exception that the telephone number to the station will not be dialed. By not connecting to WTAM, there is no possibility of accidentally broadcasting the message over one or more of the participating EAS stations.

The "send" button on the Lake County EAS encoder will be depressed, and this action will activate the outgoing alert light and playback of the recorded message. Also, a data sheet will automatically be printed by the encoder and the time recorded on the data sheet. Ashtabula and Geauga counties have EAS equipment (encoder) and could perform this function, if necessary.

Lake County will fax a copy of the EAS message(s) to the Joint Information Center (JIC) where Public Information Officers (PIOs) may distribute hard copies to the news media representatives and may, if time and circumstances permit, make an announcement regarding the message. Otherwise, the EAS message can be announced at the next scheduled press briefing or in response to news media inquiries about the PAD message. In delivering information about the EAS message just released, the counties' PIOs may indicate that a corresponding Special News Bulletin (SNB) will be issued soon. Lake County will also fax a copy of the EAS message to Ashtabula and Geauga counties' EOCs.

Criterion 5.a.2: (RESERVED)

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

Extent of Play

N/A – The Thompson Volunteer Fire Department, the only Geauga County department with this responsibility, successfully demonstrated back-up route alerting during the 2004 Evaluated Exercise.

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

Extent of Play

Based upon the combined PAD(s) of the Executive Groups of Ashtabula, Geauga and Lake Counties, the Lake County EOC Staff will prepare and issue the appropriate EAS message(s) and the corresponding Special News Bulletin(s) (SNB). SNB's give the same message as their corresponding EAS message except SNB's provide greater detail. Lake County will FAX the SNB(s) to the Joint Information Center (JIC) where one of the counties' PIOs will represent the three counties by directly proceeding to the briefing room and reading the contents of the message to the assembly of news media representatives and answering any questions pertaining to the message. This briefing should begin in a timely manner after transmission of the EAS message from the Lake County EOC to the Local Primary EAS Station. Hard copies of the SNB(s) will be distributed to the news media representatives.

Ashtabula, Geauga and Lake Counties will also coordinate release of other informational and instructional message as necessary. Such messages may include Special Information Bulletins (SIB), which are a third category of prepared messages contained in the counties' "SOG for EAS Messages, Special News Bulletins, and Special Information Bulletins pertaining to the Perry Nuclear Power Plant." These SIB's are considered routine, meaning that they are to be delivered by one of the counties' PIOs at the next scheduled press briefing.

Public Inquiry Workers at the EOC will answer calls from the public. At least one trend will be 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.

Extent of Play

Middlefield Fire Department will demonstrate the evacuee portion of this criterion out-of-sequence at Cardinal High School, 14785 Thompson Avenue, Middlefield. One locker room will be fully set up and demonstrated; a walk-through of the remaining locker room will be conducted upon request.

Six (6) monitoring demonstrations will be conducted using a portal monitor. One individual with simulated contamination will be walked through the monitoring/decontamination process, which includes whole body monitoring using a CDV-700RP survey meter; contamination levels will be provided by a controller. Decontamination will be simulated.

Monitoring and decontamination of evacuees' vehicles will be demonstrated by interview only; no actual monitoring or decontamination will take place.

Chardon Fire Department will demonstrate the emergency worker facility out-of-sequence at Chardon High School, Chardon. Two monitoring demonstrations will be conducted using a portal monitor. One individual with simulated contamination will be walked through the monitoring and decontamination process, which includes whole body monitoring using a CDV-700RP survey meter; contamination levels will be provided by a controller. Decontamination will be simulated.

Field activity participants

Middlefield Fire Department – Public Monitoring/Decontamination
American Red Cross – Evacuee registration
Chardon Fire Department – Emergency Worker Monitoring/Decontamination
Geauga County Health District – KI for the general public

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

Extent of Play

The Chardon Fire Department will demonstrate this criterion at Chardon High School. One vehicle will be monitored and decontamination will be explained; no actual decontamination will take place.

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

Extent of Play

The American Red Cross will demonstrate the congregate care center portion of this criterion out-of-sequence at Cardinal High School, 14785 Thompson Avenue, Middlefield. American Red Cross personnel will provide a walk-through of the facility and describe their capabilities. Set-up of care center equipment or supplies will be at the discretion of the American Red Cross Disaster Action Team Leader.

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

Extent of Play

N/A – Geauga County does not demonstrate this criterion.

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 Perry Nuclear Power Plant REP Full Participation Plume Exposure Pathway Exercise on October 07, 2008.

This exercise scenario was submitted by the State of Ohio and FirstEnergy Corporation, and approved by DHS/FEMA on September 29, 2008.

During the exercise, controllers from the State of Ohio gave "inject messages," containing scenario events and/or relevant data, to those persons or locations who would normally receive notification of such events. These inject messages were the method used for invoking response actions by OROs.

SCENARIO SUMMARY:

The following is a summary of the postulated events for the October 07, 2008, Perry Nuclear Power Plant Full Participation Plume Exposure Pathway Evaluated Exercise. These events did not occur.

2008 Evaluated Exercise
SCENARIO TIMELINE

Date Time	PNPP Key Events and Actions	Ohio Response	County and Local Agencies Response
<u>10/07/08</u> ~0730	Initial conditions are established. In-sequence exercise commences.		
<u>10/07/08</u> ~0745	<p>Event 1:</p> <p>An UNUSUAL EVENT is declared due to:</p> <p>3.5 magnitude earthquake results in an Unusual Event Classification LU1. Plant receives temporary high vibration alarms on non vital components. No Immediate indication of plant damage.</p>	The Ohio State Highway Patrol (OSHP) receives notification and notifies select State agencies and staff	The counties' Sheriffs' Dispatch Centers receive the notification and notifies a select few.
<u>10/07/08</u> ~0750	<p>Event 2:</p> <p>Contaminated Injured Person.</p> <p>A plant worker receives a partial thickness laceration to their right arm while decontaminating the F11 Refuel Platform from 0745 earthquake. Contaminated Injured Person transferred to Painesville Township Fire Department EMS and transported to Lake West Hospital.</p>		<p>(L) Painesville Township Fire Department responds to PNPP.</p> <p>(L) Painesville Township Fire Department personnel at PNPP receive from PNPP fire brigade personnel a contaminated/injured patient and demonstrate handling, care and transport of the patient to Lake West Hospital.</p>

2008 Evaluated Exercise
SCENARIO TIMELINE

Date Time	PNPP Key Events and Actions	Ohio Response	County and Local Agencies Response
10/07/08~0810	<p>Event 3:</p> <p>An ALERT is declared due to:</p> <p>Earthquake damage is discovered in the Division 2 Switchgear room and results in an Alert Classification LA1.</p> <p>The Technical Support Center and Operations Support Center will be activated at this time.</p> <p>The PIRT (Public Information Response Team), an activity co-located with the EOF, will be activated at this time. The PIRT will function until the JIC becomes operational.</p>	<p>The OSHP receives notification and notifies select State agencies and staff.</p> <p>Ohio EMA partially activates the State EOC in Columbus.</p> <p>Ohio EMA simulates dispatch of Ohio National Guard (ONG) helicopter to deliver state assessment personnel to the EOF and PI personnel to the JIC. (These personnel are prepositioned.)</p> <p>Ohio EMA notifies ONG, who then dispatch personnel to the three counties' EOCs.</p> <p>Ohio EMA simulates dispatch of representatives to the counties' EOCs. (These personnel are prepositioned.)</p>	<p>The Sheriffs' Dispatch Centers or the Lake/Geauga/Ashtabula counties' EMAs receive the notification and makes notifications.</p> <p>Per procedures, select EOC Staff report to their respective EOCs and commence assigned duties.</p> <p>(L) Lake County will place a call to the Common Program Control Station (WTAM) and place them on stand-by.</p> <p>(L) Two Lake County Field Monitoring Teams are assembled at the Lake County EOC and, when ready, may be dispatched to field locations.</p>

2008 Evaluated Exercise
SCENARIO TIMELINE

Date Time	PNPP Key Events and Actions	Ohio Response	County and Local Agencies Response
<u>10/07/08~0915</u>	<p>Event 4:</p> <p>An Operational Basis Earthquake of magnitude 6.7 drives a Turbine Trip. This in turn automatically inserts a reactor trip which results in a partially shutdown reactor. Approximately 20 control rods fail to fully insert. Reactor power is less than 4% but is still under the Anticipated Transient Without Scram condition. No abnormalities in plant radiological conditions result from this event.</p>	<p>If the JIC is activated, the State PIO begins coordinating releases of information to news media at the JIC with PIOs of participating agencies upon their arrival at the JIC.</p>	<p>(L) The Painesville Township Fire Department transports the patient to Lake West Hospital, where ER personnel demonstrate decontamination and care of the patient.</p> <p>If the EOF is activated, Lake County may send a representative there.</p> <p>If the JIC is activated, the counties may send their PIOs to commence public information duties there.</p>

2008 Evaluated Exercise
SCENARIO TIMELINE

<p>10/07/08~0930</p>	<p>Event 5:</p> <p>Weakened from previous seismic activity, a Main Steam line develops a leak downstream of the primary containment isolation valves in secondary containment. Main Steam Line A is unable to be isolated due to coincidental failures caused by the earthquake.</p> <p>A SITE AREA EMERGENCY is declared due to:</p> <p>A challenge to the Reactor Coolant System Barrier and a loss of the Containment Barrier result in Site Area Emergency classification EAL AS3. Additionally, radiological conditions begin to deteriorate, but do not meet Clad Damage criteria of EPI-B13. Eventually, an event related, unfiltered, nuclear steam release into the environment through the Turbine Building Heater Bay vent path develops. Resultant dose projections result at the Site Boundary exceeding the entry criteria for Site Area Emergency classification EAL HS1. Either EAL classification is valid.</p>	<p>Ohio EOC receives notification of the SAE over the 5-Way Dedicated Phone in the assessment room. Notification is made to agencies not yet activated to respond to the State EOC. The Office of the Governor declares that a "State of Emergency" exists, and directs full activation of the State EOC and Ohio National Guard.</p> <p>Ohio EMA requests FEMA/DHS for support from the DOE and the Coast Guard to include:</p> <ol style="list-style-type: none"> 1. Field monitoring for noble gas and iodine. 2. Field sampling, including analysis to determine particulate depositions. 3. Logistic support for Federal response. 4. Notification support for Lake Erie. 	<p>Lake, Ashtabula and Geauga Counties receive notification of the SAE declaration over the 5-Way Dedicated Phone.</p> <p>EOC Staff not yet in the EOC are notified and asked to report for duty. The counties' EOC Executive Groups ensure that a "State of Emergency" is declared.</p> <p>Ashtabula, Geauga, and Lake counties each demonstrate actual notifications to all of their respective response agencies. (Police and Fire Departments, School Districts, Hospitals, county agencies, and selected others). <u>NOTE:</u> This is the only full notification demonstrated by the counties.</p> <p>Field response agencies assemble personnel and equipment (Simulated, see out-of-sequence play).</p>
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2008 Evaluated Exercise
SCENARIO TIMELINE

<p><u>10/07/08~0930</u></p>	<p>Event 5 continued:</p> <p>If not already activated, the Emergency Operations Facility (EOF) and the Joint Information Center (JIC) are activated.</p> <p>The Technical Support Center (TSC) Security Coordinator calls the Lake County EOC and requests traffic control to assist with evacuation of non-essential personnel from the PNPP Site. Evacuation of non-essential personnel is simulated.</p>	<p>ODH and ODA make an initial recommendation for livestock and poultry.</p> <p>Consolidated Railways (CONRAIL) and Norfolk & Southern Railways are notified to restrict rail traffic in the 10-Mile EPZ. (Simulated)</p> <p>Federal Aviation Administration (FAA) is notified to restrict air traffic in the 10-Mile EPZ. (Simulated)</p> <p>Communication links are established among the State EOC, the EOF (State's Liaison), and the JIC (State's PIO); back-up communication would be provided by the Communications Van (not participating in this exercise).</p>	<p>Traffic Control points are planned and coordinated in EOCs. (Interviews with Sheriff's Dept/Office and Ohio State Highway Patrol in Ashtabula and Geauga EOCs.)</p> <p>(L) Lake County Field Monitoring Teams, if not already in field locations, are dispatched to appropriate field locations. Monitoring/decontamination teams, once assembled and ready may move to assigned locations (Simulated, see out-of-sequence play).</p> <p>EOCs demonstrate the ability and the availability of the resources necessary to effect evacuation of the special needs population.</p> <p>Public Inquiry Hotlines in the EOCs begin receiving calls.</p>
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2008 Evaluated Exercise
SCENARIO TIMELINE

10/07/08~0930	Event 5 continued:	<p>State's two Field Monitoring Teams would begin demonstration of procedures related to field movements. State Representative in Lake County EOC would direct the teams to appropriate locations (Simulated). (The State's FMTs are not participating in this exercise.)</p> <p>Public Inquiry begins receiving calls.</p>	Care Center personnel report to assigned care centers (simulated; see out-of-sequence play).
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2008 Evaluated Exercise
SCENARIO TIMELINE

<p>10/07/08~1100</p>	<p>Event 6:</p> <p>A GENERAL EMERGENCY (GE) is declared due to:</p> <p>Seismic damage and abnormal rod configuration result in further degradation of the fuel cladding. Drywell radiation levels of greater than 4 R/hr indicate cladding damage per EPI-B13. This is a direct loss of the Fuel Clad Barrier and results in a General Emergency classification AG1.</p> <p>The indication of clad damage per EPI-B13 also toggles the isotopic makeup in the Computer Aided Dose Assessment Program (CADAP). Resultant dose projections result at the Site Boundary exceeding the entry criteria for General Emergency classification EAL HG1.</p> <p>Although either EAL classification is valid, it is expected that the barrier failure will lead the dose projection classification.</p>	<p>State Assessment team receives notification of the General Emergency and takes the utility's recommendations under advisement. The team formulates the State's protective action recommendation, obtains the Governor's (or designated representative in EOC) approval and informs the counties of the Governor's recommendations via the EDL</p>	<p>Counties' Executive Groups are notified of the GENERAL EMERGENCY and of the utility's protective action recommendations. The counties' Executive Groups deliberate over the EDL. Counties simulate notifications to all field agencies.</p>
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2008 Evaluated Exercise
SCENARIO TIMELINE

<p><u>10/07/08~1100</u></p>	<p>Event 7:</p> <p>Protective Action Recommendations derived from the EAL AG1 classification include the evacuation of Sub Areas 1, 2, 3, & Lake.</p> <p>Protective Action Recommendations derived from the EAL HG1 classification and release rate plateau include the evacuation of Sub Areas 1, 2, 3, 4, 5 & Lake.</p>	<p>Appropriate officials/agencies/media are informed of the change in classification.</p> <p>The ODH Sample Screening Point at Ledgesmont Elementary School, Thompson Twp., will be simulated – it is not participating in this exercise.</p> <p>State Assessment Team begins continuous monitoring of emergency workers exposure.</p>	<p>A Protective Action Decision is coordinated with the three counties and the State via the EDL.</p> <p>(L) Lake County assembles an EAS message, simulates the sounding of sirens, and delivers the message to WTAM radio station. WTAM simulates broadcast over the air.</p> <p>(L) Lake County transmits a copy of the EAS message to the JIC, State EOC, EOF, and the other two counties.</p> <p>Monitoring /decon stations/care centers are activated, if not already activated. (Simulated, see out-of-sequence play).</p>
<p><u>10/07/08~1215</u></p>	<p>Event 8:</p> <p>PNPP makes a second Protective Action Recommendation based on a wind shift.</p> <p>A wind direction change from 290 to 360 occurs which should result in the issuance of a revised offsite protective action recommendation (PAR) by the Perry Plant to recommend EVACUATION out to 5 miles 360° and down wind out to 10 miles (Subareas 1, 2, 3, 5, 6, 7 & Lake). Sub Area 4 from the original recommendation will remain on recommendation change.</p>	<p>The State Assessment Team receives a new protective action recommendation from PNPP.</p>	<p>The 3 counties receive the new protective action recommendation from PNPP. They discuss the new PAR with the State and arrive at a second Protective Action Decision.</p> <p>(L) Lake County assembles an EAS message, simulates the sounding of sirens, and delivers the message to WTAM radio station. WTAM simulates broadcast over the air.</p> <p>(L) Lake County transmits a copy of the EAS message to the State EOC, JIC, EOF, and the other two counties.</p>

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<u>10/07/08</u> ~1300	As the driving force of the release is reduced, the release plume begins to dissipate. On-site recovery discussions begin.		
<u>10/07/08</u> ~1400	PNPP terminates drill actions.	Emergency phase of the exercise concludes.	Emergency phase of exercise concludes in the 3 counties.
<u>10/7/08</u> 1500			3 R's phase of exercise begins in Lake, Geauga and Ashtabula Counties' EOCs.

2008 Evaluated Exercise
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Medical Services (MS-1) Drill Scenario

OVERVIEW

The Lake County Emergency Management Agency's medical services drill will be conducted in conjunction with the Perry Nuclear Power Plant on October 7, 2008. The plant will conduct a full-scale exercise that will be evaluated by the NRC. As part of that exercise a "mini-scenario" involving a contaminated and injured victim has been developed (refer to Section 9.0 of the Exercise Manual, Plant Mini-Scenario No. 21).

This scenario involves the response of the Painesville Township Fire Department to the Perry Plant where they will demonstrate handling of a contaminated and injured victim. The Fire Department ambulance crew will contact the Lake West Hospital (Willoughby) and transport the patient to the hospital. No sirens or emergency lights will be used and traffic laws for normal commercial traffic will be followed.

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.

**Demonstrating Agency:
for transportation** Painesville Township Fire Department
55 Nye Road
Painesville, OH

Time Exercise Play is to be initiated: Approximately 0730 hours on October 7, 2008.

Action Location: The Perry Nuclear Power Plant
Unit #1 Controlled Access Area
10 North Center Road
Perry, OH

The evaluator should meet the exercise controller/Unit #1 escort at the Primary Access Facility (PAF) at 0730 hours. (Refer to site map enclosed as Attachment 1.) The evaluator will need photo identification.

**Demonstrating Agency
for hospital:** Emergency Department
Lake West Hospital
36000 Euclid Avenue
Willoughby, OH

Time: Estimated arrival time of the patient is 0945 hours.

NOTES: The Lake West Hospital is designated in the Lake County Radiological Emergency Response Plan as a hospital in support of the general public. The hospital is also the back-up support hospital for the Perry Plant.

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The Perry Plant offers its Radiation Protection resources to the Lake Hospital System for any radiological accident response for which the hospital desires such support. Termination of Drill Play: When the patient has been monitored, decontaminated, treated, and ready for movement to regular treatment areas of the hospital, the exercise controller will terminate the drill, with the agreement of the evaluator.

Contaminated Injured Person

Approximate Time: 0750

Location: Fuel Handling Building 620'

Event Summary: While performing decontamination and housekeeping activities in the Fuel handling Building a worker receives a partial thickness laceration to the right forearm while exiting the Bridge Crane.

Postulated Sequence of Events:

1. Upon completion of decontamination and housekeeping activities on the Bridge Crane in the Fuel Handling Building, two workers are exiting the crane.
2. While descending the ladder on the North side of the bridge one of the workers lacerates their right forearm on an exposed bolt.

NOTE: The right sleeve of the PC's is torn and skin contamination is 3000 ccpm/100cm² as noted on Attachment 2.

3. The non-injured worker is able to assist the injured person to a location outside the FHB and reports the accident to the Control Room ~0755. The Secondary Alarm Station (SAS) will tone out the First Aid Team (FAT).
4. Per EPI-B4, the SAS should perform the following: Tone out the FAT and verify that FAT members acknowledge the announcement, Notify the Shift Manager, Security Shift Supervisor (SSS), and Site Dispensary. Notify the Radiologically Controlled Area (RCA) Control Point to verify that a Radiation Protection Technician (RPT) has been dispatched to the injury scene.

Area Conditions:

5. An RPT arrives at the Intermediate Building and observes the injured person sitting with a bloodstain on the right forearm of his modesty garment.

Note: Responding RPT notifies Control Room of injured man

6. The RPT frisks the right forearm and determines that 3000 ccpm/100 cm² is found in the wound area.

7. FAT arrives on-scene and ascertains the condition of the victim and observes the following: A 4" Partial thickness laceration to the right forearm.

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Vital signs: Pulse 86, Skin warm and dry, Pupils equal and reactive,
B/P 170/110 and respirations 32 and regular

Clothing should be torn or cut away from the laceration before applying a dressing to prevent contamination from being introduced into the wound.

8. Based on the nature of the injury the FAT requests off-site medical transport.

Per EPI-B4, the SAS should perform the following: Contact the Lake County Emergency Communications Center by dialing "911", and if known, notify them whether the victim(s) is potentially or actually contaminated.

Notify the Shift Manager, SSS, and Security Officers at the Vehicle Inspection Facility and Vehicle Trap that an ambulance has been requested.

9. Radiation Protection may attempt to decontaminate the victim based on the injury being non-life threatening.

NOTE: RP should be given two attempts at decontamination, any attempt to decontaminate after that will result in pain to the victim's right arm.

10. A RPT will accompany the victim to Lake West Hospital in Willoughby, OH to monitor for potential contamination spread and to assist, if requested, in decontaminating the victim. A second RPT or RP Supervisor will be dispatched to Lake West Hospital per EPI-B4 to assist in monitoring and releasing the ambulance vehicle and personnel, Emergency Room treatment area and equipment, and Emergency Room staff.

**Radiological
Conditions:**

11. Victim decontamination at Lake West Hospital will be successful after three attempts if performed correctly.

The Radiation Protection Technician will determine radiological conditions by performing radiation, contamination and airborne radioactivity surveys. The Radiation and airborne radioactivity surveys are required to meet the Radiation annual HP drill objective.