

Palisades Nuclear Power Plant
Exercise Report - 2008-09-30
Final Report - Radiological Emergency
Preparedness (REP) Program
2009-01-07





FEMA

Exercise Report

Palisades Nuclear Power Plant

Exercise Date: 2008-09-30

Report Date: 2009-01-07

U.S. DEPARTMENT OF HOMELAND SECURITY

Federal Emergency Management Agency

REP Program

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1. Executive Summary

On September 16, 2008, a Radiological Emergency Preparedness (REP) Full Participation Plume Exposure Pathway exercise was conducted in the 10-mile Emergency Planning Zone (EPZ) around the Palisades Nuclear Power Plant by the U.S. Department of Homeland Security (DHS)/ Federal Emergency Management Agency (FEMA) Region V. The purpose of this exercise was to assess the level of State and local preparedness in responding to a radiological emergency. This exercise was held in accordance with DHS/FEMA's policies and guidance concerning the exercise of State and local Radiological Emergency Response Plans (RERPs) and procedures.

The most recent exercise at this site was conducted on September 19, 2006. The qualifying emergency preparedness exercise was conducted on December 9, 1980.

The DHS/FEMA wishes to acknowledge the efforts of the many individuals who participated in this exercise. In the State of Michigan the risk counties of Allegan, Berrien and Van Buren participated along with the State government.

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

This Final Report contains the evaluation of the biennial exercise and the evaluation of the following out-of-sequence activities: Michigan Department of Environmental Quality activities in Allegan, Berrien and Van Buren County; Emergency Worker Equipment and Vehicle Monitoring and Decontamination; Emergency Worker Monitoring and Decontamination; Evacuee Vehicle Monitoring and Decontamination; Evacuee Monitoring, Decontamination and Registration; and Congregate Care Centers.

The State and local organizations, except where noted in this report, demonstrated knowledge of their emergency response plans and procedures, and adequately implemented them.

No Deficiencies were identified for the State of Michigan or for Allegan, Berrien or Van Buren Counties during this exercise.

There was one Area Requiring Corrective Action (ARCA) identified during this exercise for the State of Michigan. This ARCA was identified under Criterion 5.b.1 - Emergency Notification and Public Information, whereby two news releases were issued with incorrect and/or incomplete information.

There were no Areas Requiring Corrective Action (ARCAs) identified during this exercise for Allegan, Berrien or Van Buren Counties during this exercise.

One prior ARCA for Van Buren County, Number 44-06-5.b.1-A-02, regarding the Van Buren County EOC not providing accurate information in Emergency Alert System (EAS) messages being broadcast to the public was resolved.

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 off-site nuclear planning and response. The DHS/FEMA's activities are conducted pursuant to 44 Code of Federal Regulations (CFR) Parts 350, 351, and 352. These regulations are a key element in the Radiological Emergency Preparedness (REP) Program that was established following the Three Mile Island Nuclear Station accident in March 1979.

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

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

- Taking the lead in off-site emergency planning and in the review and evaluation of RERPs and procedures developed by State and local governments;
- Determining whether such plans and procedures can be implemented on the basis of observation and evaluation of exercises of the plans and procedures conducted by State and local governments;
- Responding to requests by the U.S. Nuclear Regulatory Commission (NRC) pursuant to the Memorandum of Understanding between the NRC and FEMA dated June 17, 1993 (Federal Register, Vol. 58, No. 176, September 14, 1993); and
- Coordinating the activities of Federal agencies with responsibilities in the radiological emergency planning process:
 - U.S. Department of Agriculture;
 - U.S. Department of Energy;
 - U.S. Department of Health and Human Services;
 - U.S. Department of the Interior;
 - U.S. Department of Transportation;

- U.S. Environmental Protection Agency;
- U.S. Food and Drug Administration; and
- U.S. Nuclear Regulatory Commission.

Representatives of these agencies serve on the DHS/FEMA Region V Regional Assistance Committee (RAC), which is chaired by DHS/FEMA.

Formal submission of the RERPs for the Palisades Nuclear Power Plant to FEMA Region V by the State of Michigan and involved local jurisdictions occurred on March 22, 1982.

Formal approval of these RERPs was granted by FEMA on July 2, 1987, under 44 CFR 350.

A REP Full Participation Plume Exposure Pathway exercise was conducted on September 16, 2008, by DHS/FEMA Region V to assess the capabilities of State and local emergency preparedness organizations in implementing their RERPs and procedures to protect the public health and safety during a radiological emergency involving the Palisades 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 (OROs) during a simulated radiological emergency.

The findings presented in this report are based on the evaluations of the Federal evaluation team, with final determinations made by the DHS/FEMA Region V RAC Chairman, and approved by the Regional Administrator.

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, which were evaluated, and a tabular presentation of the time of actual occurrence of key exercise events and activities.

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

3. Exercise Overview

Contained in this section are data and basic information relevant to the September 16, 2008, REP Full Participation Plume Exposure Pathway exercise to test the offsite emergency response capabilities in the area surrounding the Palisades Nuclear Power Plant. This section of the exercise report includes a description of the plume pathway EPZ, a listing of all participating jurisdictions and functional entities which were evaluated, and a tabular presentation of the time of the actual occurrence of key exercise events and activities.

3.1. EPZ Description

The Palisades Nuclear Power Plant is a single unit pressurized water reactor with a net capacity of 805 megawatts. The facility owned and operated by Entergy Nuclear Operations, Incorporated, commenced commercial operation in December 1971. Lake Michigan is the cooling water source for the plant.

The plant is located in northwestern Van Buren County, Michigan, on the shore of Lake Michigan, approximately five miles south-southwest of South Haven. The 10-mile EPZ of the Palisades Nuclear Power Plant encompasses parts of Allegan, Berrien, and Van Buren Counties, with the major portion of the zone falling within Van Buren County. The total plume pathway EPZ permanent population is 33,027 persons.

The EPZ is comprised of five Protective Action Areas (PAAs), numbered 1 to 5, with PAAs 1, 2, and 3 being located within Van Buren County only; PAA 4 is located within both Allegan and Van Buren Counties; and PAA 5 is located within both Berrien and Van Buren Counties. The permanent population of PAA 1 is 2,001. The permanent population of PAA 2 is 1,939. The permanent population of PAA 3 is 2,360. The permanent population of PAA 4 is 10,283. The permanent population of PAA 5 is 4,308.

Approximately 50 percent of the 10-mile EPZ lies within Lake Michigan. The lake attracts a large number of vacationers during the summer. The area includes various summer resorts, which offer camping facilities, light housekeeping cottages, tourist's attractions, and the Van Buren State Park. The City of South Haven, with a tourism-based economy, is located five miles north of the plant. The population varies from summer to winter months.

Agricultural use of the land includes seasonal fresh fruit and vegetable farming and processing. Peak agricultural use takes place during the spring, summer, and fall months.

3.2. Exercise Participants

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

State Jurisdictions

- Executive (Governor's) Office
- Attorney General
- Michigan State Police
- Emergency Management and Homeland Security Division
- Michigan National Guard
- Michigan Department of Environmental Quality
- Michigan Department of Education
- Michigan Department of Community Health
- Michigan Department of Labor and Economic Growth
- Michigan Department of Transportation
- Michigan Department of Natural Resources
- Michigan State Courts
- Michigan Department of Agriculture
- Michigan Department of Information Technology
- Michigan Department of Human Services
- Michigan Office of Services to the Aging
- Family Independence Agency

Risk Jurisdictions

- Van Buren County Board of Commissioners Chairman
- Van Buren County Administrator
- Van Buren County Sheriff's Department
- Van Buren County Office of Domestic Preparedness
- Van Buren Intermediate School District
- Van Buren County Department of Administration
- Van Buren Emergency Medical Service
- Van Buren/Cass County District Health Department
- Van Buren County Department of Land Services

Van Buren Community Mental Health
Van Buren County Road Commission
Van Buren County Human Services
Berrien County Board of Commissioners Chairman
Berrien County Sheriff's Department
Berrien County Emergency Management
Berrien County Intermediate School District
Berrien County Health Department
Berrien County Department of Equalization
Berrien County Road Commission
Berrien County Animal Control
Berrien County Department of GIS Mapping
Berrien County Public Safety Communications Center
Allegan County Board of Commissioners Vice-Chairman
Allegan County Sheriff's Department
Allegan County Emergency Management Agency
Allegan County Department of Equalization
Allegan County Health Department
Allegan County Department of Human Services
Allegan County Transportation Department
Allegan County Land Information Services
Allegan County E-911 Central Dispatch
Allegan County Mental Health
Allegan County Medical Care Facility

Private Jurisdictions

American Red Cross
Amateur Radio Emergency Service
Radio Amateur Civil Emergency Services
American Electric Power/D.C. Cook Nuclear Plant
Entergy Palisades
Lakeland Hospital
Kalamazoo Office of Emergency Management
Bronson Lake View
South Haven Area Fire Services
Paw Paw Fire Department
Paw Paw Police Department
Salem Township

Lake Michigan Community College
 Watervliet School
 Gobles High School
 Eau Claire High School
 Hartford Fire Department
 Radio Station WSJM
 Decatur High School
 Borgess-Pipp Hospital
 Area Agency on Aging
 Medic 1
 Benton Township Fire Department

3.3. Exercise Timeline

Table 1 - Exercise Timeline
 DATE: 2008-09-30, SITE: Palisades Nuclear Power Plant, MI

Emergency Classification Level or Event	Time Utility Declared	MI-SEOC	MI-JIC---DC Cook	ALG-EOC---	BER-EOC---	VAN-EOC---
Unusual Event	0817	0830	N/A	0835	0836	0829
Alert	0846	0856	0952	0859	0909	0858
Site Area Emergency	1018	1020	1030	1022	1023	1020
General Emergency	1113	1118	1129	1130	1132	1126
Simulated Rad. Release Started	1128/1232	1128/1232	N/A	N/A	N/A	N/A
Simulated Rad. Release Terminated	N/A	N/A	N/A	N/A	N/A	N/A
Facility Declared Operational		0935	0952	0930	0954	0935
Declaration of State of Emergency		1024	N/A	1018	1031	1005
Exercise Terminated		1305	1316	1305	1305	1305
Early Precautionary Actions:		1019/1021	N/A	N/A	N/A	N/A
1st Protective Action Decision:		1126	1132	1140	1132	1126
1st Siren Activation		N/A	N/A	N/A	N/A	1134
1st EAS or EBS Message		N/A	N/A	N/A	N/A	1145
2nd Protective Action Decision:		1232	1232	1236	1237	1232
2nd Siren Activation		N/A	N/A	N/A	N/A	1234
2nd EAS or EBS Message		N/A	N/A	N/A	N/A	1244
KI Administration Decision:		1132/1237	N/A	N/A	N/A	N/A

4. Exercise Evaluation and Results

Contained in this section are the results and findings of the evaluation of all jurisdictions and functional entities that participated in the September 16, 2008, REP Full Participation Plume Exposure Pathway exercise to test the off-site emergency response capabilities of State and local governments in the 10-mile EPZ surrounding the Palisades 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, that were scheduled for demonstration during this exercise by all participating jurisdictions and functional entities. Exercise criteria are listed by number and the demonstration status of those criteria are indicated by the use of the following letters:

M – Met (No Deficiency or ARCA assessed and no unresolved ARCAs from prior exercises)

D – Deficiency assessed

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

N – Not Demonstrated (Reason explained in Section IV.B.)

Blank – Not scheduled for demonstration

Table 2 - Summary of Exercise Evaluation (4 pages)

DATE: 2008-09-30 SITE: Palisades Nuclear Power Plant, MI A: ARCA, D: Deficiency, M: Met, N: Not Demonstrated		MI-INP	MI-SEOC	MI-SEOC TSG	MI-FTC MDOT Coloma-	MI-MDEQ FMT1 - PSD	MI-MDEQ FMT2-PSD	MI-MDEQ FMT3-PSD	MI-FTC--	MI-MSP-TACP - MDOT	MI-EOC ALG-SILias--	MI-EOC BER-SILias--	MI-EOC VAN-SILias--
Emergency Operations Management													
Mobilization	1a1	M	M	M		M	M	M					
Facilities	1b1												
Direction and Control	1c1		M										
Communications Equipment	1d1	M	M	M		M	M	M		M			
Equipment and Supplies to Support Operations	1e1		M	M		M	M	M		M			
Protective Action Decision Making													
EW Exposure Control Decisions	2a1		M	M							M	M	M
PARs	2b1			M							M	M	M
PADs	2b2		M	M									
PADs for Disabled/Functional Needs	2c1		M										
Ingestion PADs	2d1												
RRR Decisions	2e1												
Protective Action Implementation													
EW Exposure Control Implementation	3a1				M	M	M	M	M	M			
KI Public/Institutionalized	3b1		M		M	M	M	M	M	M			
PAD Implementation Disabled/Functional Needs	3c1												
PAD Implementation Schools	3c2												
TACP Establishment	3d1		M							M			
Impediments	3d2												
Implement Ingestion PADs	3e1												
Coordination of RRR Decisions	3e2												
Coordination of RRR Decisions	3f1												
Field Measurement and Analysis													
RESERVED	4a1					M	M	M					
Field Team Management	4a2												
Field Team Operations	4a3					M	M	M					
Field Team Sampling	4b1												
Laboratory Operations	4c1												
Emergency Notification and Public Info													
Initial Alert & Notification	5a1		M								M	M	M
RESERVED	5a2												
Backup Alert & Notification	5a3												
Exception Area Alerting	5a4												
Subsequent Information & Instructions	5b1		M								M	M	M
Support Operations/Facilities													
Reception Center Operations	6a1												
EW Monitoring & Decontamination	6b1												
Congregate Care	6c1												
Contaminated Injured Transport & Care	6d1												

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

DATE: 2008-09-30 SITE: Palisades Nuclear Power Plant, MI A: ARCA, D: Deficiency, M: Met, N: Not Demonstrated		MI-JIC---DC Cook	MI-JIC--RumCon-PNPP	MI-Decatur FS--EWMD-	MI-Eau Claire HS-	MI-Gobles HS-EvMD-	MI-Gobles HS-EvMDV-	MI-Harford FS-	MI-Harford FS-EWMD-	MI-Watervliet HS--	MI-Watervliet HS--	ALG-INP---	ALG-EOC---	
Emergency Operations Management														
Mobilization	1a1	M											M	M
Facilities	1b1													
Direction and Control	1c1	M												M
Communications Equipment	1d1	M	M	M	M	M	M	M	M	M	M	M	M	M
Equipment and Supplies to Support Operations	1e1	M		M	M	M	M	M	M	M	M			M
Protective Action Decision Making														
EW Exposure Control Decisions	2a1													
PARs	2b1													
PADs	2b2													
PADs for Disabled/Functional Needs	2c1													M
Ingestion PADs	2d1													
RRR Decisions	2e1													
Protective Action Implementation														
EW Exposure Control Implementation	3a1			M	M	M	M	M	M	M	M			M
KI Public/Institutionalized	3b1													M
PAD Implementation Disabled/Functional Needs	3c1													M
PAD Implementation Schools	3c2													M
TACP Establishment	3d1													M
Impediments	3d2													M
Implement Ingestion PADs	3e1													
Coordination of RRR Decisions	3e2													
Coordination of RRR Decisions	3f1													
Field Measurement and Analysis														
RESERVED	4a1													
Field Team Management	4a2													
Field Team Operations	4a3													
Field Team Sampling	4b1													
Laboratory Operations	4c1													
Emergency Notification and Public Info														
Initial Alert & Notification	5a1													M
RESERVED	5a2													
Backup Alert & Notification	5a3													
Exception Area Alerting	5a4													
Subsequent Information & Instructions	5b1	A	M											M
Support Operations/Facilities														
Reception Center Operations	6a1			M	M	M	M		M	M				
EW Monitoring & Decontamination	6b1							M			M			
Congregate Care	6c1													
Contaminated Injured Transport & Care	6d1													

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

DATE: 2008-09-30 SITE: Palisades Nuclear Power Plant, MI A: ARCA, D: Deficiency, M: Met, N: Not Demonstrated		ALG---DosBrief-	ALG---TACP-	ALG--JC Rep--PNPP	BER-INP---	BER-EOC---	BER---DosBrief-	BER---TACP-	BER--JC REP--DC Cook	BER-EAS-WJR-760---	BER-Eau Claire HS--	BER-Eau Claire HS--	BER-Eau Claire HS--
Emergency Operations Management													
Mobilization	1a1			M	M	M			M				
Facilities	1b1					M							
Direction and Control	1c1					M							
Communications Equipment	1d1	M	M	M	M		M	M		M	M	M	
Equipment and Supplies to Support Operations	1e1	M	M		M		M	M		M	M	M	
Protective Action Decision Making													
EW Exposure Control Decisions	2a1												
PARs	2b1												
PADs	2b2												
PADs for Disabled/Functional Needs	2c1					M							
Ingestion PADs	2d1												
RRR Decisions	2e1												
Protective Action Implementation													
EW Exposure Control Implementation	3a1	M	M			M	M	M				M	M
KI Public/Institutionalized	3b1	M	M			M	M	M					
PAD Implementation Disabled/Functional Needs	3c1					M							
PAD Implementation Schools	3c2					M							
TACP Establishment	3d1	M				M		M					
Impediments	3d2					M							
Implement Ingestion PADs	3e1												
Coordination of RRR Decisions	3e2												
Coordination of RRR Decisions	3f1												
Field Measurement and Analysis													
RESERVED	4a1												
Field Team Management	4a2												
Field Team Operations	4a3												
Field Team Sampling	4b1												
Laboratory Operations	4c1												
Emergency Notification and Public Info													
Initial Alert & Notification	5a1					A				M			
RESERVED	5a2												
Backup Alert & Notification	5a3												
Exception Area Alerting	5a4												
Subsequent Information & Instructions	5b1			M		M		M					
Support Operations/Facilities													
Reception Center Operations	6a1											M	M
EW Monitoring & Decontamination	6b1												
Congregate Care	6c1									M			
Contaminated Injured Transport & Care	6d1												

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

DATE: 2008-09-30 SITE: Palisades Nuclear Power Plant, MI A: ARCA, D: Deficiency, M: Met, N: Not Demonstrated												
	BER-Watervliet HS--	VAN-INP---	VAN-EOC---	VAN---DosBrief-	VAN---TACP-	VAN-VAN/HD--	VAN--JIC REP-- PNPP	VAN-DeCATur HS--CCC-	VAN-Gobles HS--EvMD-	VAN-Gobles HS--	VAN--Harford FD-	VAN--Harford FD-
Emergency Operations Management												
Mobilization	1a1		M	M			M					
Facilities	1b1											
Direction and Control	1c1			M								
Communications Equipment	1d1	M	M	M		M	M	M	M	M	M	M
Equipment and Supplies to Support Operations	1e1	M		M		M	M	M	M	M	M	M
Protective Action Decision Making												
EW Exposure Control Decisions	2a1											
PARs	2b1											
PADs	2b2											
PADs for Disabled/Functional Needs	2c1			M								
Ingestion PADs	2d1											
RRR Decisions	2e1											
Protective Action Implementation												
EW Exposure Control Implementation	3a1	M			M	M			M	M	M	M
KI Public/Institutionalized	3b1				M	M						
PAD Implementation Disabled/Functional Needs	3c1			M								
PAD Implementation Schools	3c2			M								
TACP Establishment	3d1			M		M						
Impediments	3d2			M								
Implement Ingestion PADs	3e1											
Coordination of RRR Decisions	3e2											
Coordination of RRR Decisions	3f1											
Field Measurement and Analysis												
RESERVED	4a1											
Field Team Management	4a2											
Field Team Operations	4a3											
Field Team Sampling	4b1											
Laboratory Operations	4c1											
Emergency Notification and Public Info												
Initial Alert & Notification	5a1			M								
RESERVED	5a2											
Backup Alert & Notification	5a3											
Exception Area Alerting	5a4											
Subsequent Information & Instructions	5b1			M			M					
Support Operations/Facilities												
Reception Center Operations	6a1								M	M		M
EW Monitoring & Decontamination	6b1	M									M	
Congregate Care	6c1							M				
Contaminated Injured Transport & Care	6d1											

4.2. Status of Jurisdictions Evaluated

This subsection provides information on the evaluation of each participating jurisdiction and functional entity in a jurisdiction-based, issues-only format. Presented below are 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 were assessed during this exercise. Included is a description of each Deficiency and recommended corrective actions.
- Area 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 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 that 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 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 Field Offices and site-specific exercise reports within each Field Office. It also is used to expedite 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 Code.
- 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 dated 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 a letter from the RPCC Chairman. Therefore, standardized issue numbers are not assigned to Plan Issues.
- Exercise Identification Number – A separate two- (or three-) digit indexing number assigned to each issue identified in the exercise.

4.2.1. Michigan Jurisdictions

4.2.1.1. State of Michigan - 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

4.2.1.2. State of Michigan - State 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.b.1, 3.d.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

4.2.1.3. State of Michigan - SEOC Technical Support

Group

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

4.2.1.4. State of Michigan - Field Team Center

MDOT Coloma - Dosimetry Briefing - Emergency
Worker / Traffic and Access Control Point

- a. MET: 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

4.2.1.5. State of Michigan - Michigan Department of Environmental Quality Field Monitoring Team 1 - PSD Monroe

- a. MET: 1.a.1, 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

4.2.1.6. State of Michigan - Michigan Department of Environmental Quality Field Monitoring Team 2 - PSD Monroe

- a. MET: 1.a.1, 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

4.2.1.7. State of Michigan - Michigan Department of Environmental Quality Field Monitoring Team 3 - PSD Monroe

- a. MET: 1.a.1, 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

4.2.1.8. State of Michigan - Field Team Center - Traffic and Access Control Point Dosimetry Briefing - MDEQ Representative

- a. MET: 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 of Michigan - Michigan State Police - Traffic and Access Control Point

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

4.2.1.10. State of Michigan - Allegan County Emergency Operations Center - State Liaison

- a. MET: 2.a.1, 2.b.1, 5.a.1, 5.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None

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

4.2.1.11. State of Michigan - Berrien County

Emergency Operations Center - State Liaison

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

4.2.1.12. State of Michigan - Van Buren County

Emergency Operations Center - State Liaison

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

4.2.1.13. State of Michigan - Joint Information

Center - DC Cook

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: 5.b.1.

ISSUE NO.: 44-08-5b1-A-1

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

CONDITION: Two News Releases were issued with incorrect and/or incomplete information. One contained the wrong emergency classification level. Both did not include all of the information that was contained in the Agricultural Advisories.

POSSIBLE CAUSE: Lack of attention to detail in proofing the new releases prior them being released to the media.

REFERENCE: NUREG-0654 E.5,7; G.3.a; G.4.c

EFFECT: Conflicting information may confuse the public and the media.

RECOMMENDATION: Ensure that all information contained in the news release is accurate prior release. Additionally, provide the media with copies of Executive Orders, Agricultural Advisories, and other pertinent documents upon receipt at the JIC to ensure that the media has complete and accurate information.

SCHEDULE OF CORRECTIVE ACTIONS: The EMHSD will review JIC SOPs and conduct training with State JIC staff to address lack of attention to detail in proof reading the news releases prior to release to the media. The criterion will be demonstrated for correction at the 2009 D.C. Cook REP exercise.

CORRECTIVE ACTION NOT DEMONSTRATED:

At 1010 hours, the Michigan Department of Agriculture initiated Agricultural Advisories for Food Establishments and Facilities, Feed Operators and Facilities, and Fruit and Vegetable Growers and Distributors. These advisories were issued for Areas 1, 3 and 5 which were in conflict with the PAO to evacuate Areas 1 and 3 that was issued at 1018 hours. The advisories were faxed to the Berrien County EOC and the JIC at 1026 hours for dissemination to the public.

RECOMMENDATION: Evaluate the individual simultaneous processes for initiating and disseminating protective actions to the public to determine how to minimize the chance for dissemination to the public of conflicting protective actions.

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

4.2.1.14. State of Michigan - Joint Information Center - Rumor Control - PNPP

- 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

4.2.1.15. State of Michigan - Decatur Fire Station - Emergency Worker Monitoring and Decontamination - MDEQ Representative

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

4.2.1.16. State of Michigan - Eau Claire High School - Evacuee Monitoring and Decontamination of Vehicles - MDEQ Representative

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

4.2.1.17. State of Michigan - Gobles High School - Evacuee Monitoring and Decontamination - MDEQ Representative

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

4.2.1.18. State of Michigan - Gobles High School - Evacuee Monitoring and Decontamination of Vehicles - MDEQ Representative

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

4.2.1.19. State of Michigan - Harford Fire Station - Emergency Worker Monitoring and Decontamination of Equipment and Vehicles - MDEQ Representative

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

4.2.1.20. State of Michigan - Harford Fire Station - Emergency Worker Monitoring and Decontamination - MDEQ Representative

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

4.2.1.21. State of Michigan - Watervliet HS - Emergency Worker Monitoring and Decontamination - MDEQ Representative

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

4.2.1.22. State of Michigan - Watervliet HS - Emergency Worker Monitoring and Decontamination of Equipment and Vehicles - MDEQ Representative

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

4.2.2. Risk Jurisdictions

4.2.2.1. Allegan 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. Allegan County - Emergency Operations Center

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 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. Allegan County - Dosimetry Briefing - Emergency Worker / Traffic and Access Control Point

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

4.2.2.4. Allegan County - Traffic and Access Control Point

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

4.2.2.5. Allegan County - Joint Information Center Representative - PNPP

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

4.2.2.6. Berrien 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

4.2.2.7. Berrien County - Emergency Operations Center

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

ISSUE NO.: 15-07-5a1-A-02

ISSUE: The first instructional message failed to identify the local government organization and the official with the authority for providing the alert signal and instructional message. Instead, the Utility was listed as the agency with the authority for issuing the evacuation order.

REASON UNRESOLVED: The corrective action for this issue will be demonstrated at the D.C. Cook Nuclear Plant Radiological Emergency Preparedness Exercise in 2009.

4.2.2.8. Berrien County - Dosimetry Briefing - Emergency Worker / Traffic and Access Control Point

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

4.2.2.9. Berrien County - Traffic and Access Control Point

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

4.2.2.10. Berrien County - Joint Information Center Representative - DC Cook

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

4.2.2.11. Berrien County - Emergency Alert System Radio Station WJR AM - 760

- a. MET: 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

4.2.2.12. Berrien County - Eau Claire High School - Congregate Care Center

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

4.2.2.13. Berrien County - Eau Claire High School - Evacuee Monitoring and Decontamination of Vehicles

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

4.2.2.14. Berrien County - Eau Claire High School - Evacuee/Emergency Worker Monitoring and Decontamination, Registration of Evacuees

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

4.2.2.15. Berrien County - Watervliet High School - Emergency Worker Vehicle & Equipment Monitoring & Decontamination

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

4.2.2.16. Van Buren 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

4.2.2.17. Van Buren County - Emergency

Operations Center

- a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.c.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: 5.b.1.

ISSUE NO.: 44-06-5b1-A-02

ISSUE: Van Buren County EOC did not provide accurate information in Emergency Alert System (EAS) messages being broadcast to the public.

CORRECTIVE ACTION DEMONSTRATED: The Van Buren County DODP utilized the approved pre-scripted EAS message form as indicated in the Van Buren County Emergency Operations Plan for both EAS messages sent to Radio Station WSJM, and a review of each of the messages' contents was conducted to ensure the accuracy of the information prior to faxing each message to the radio station.

- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.18. Van Buren County - Dosimetry Briefing - Emergency Worker / Traffic and Access Control Point

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

4.2.2.19. Van Buren County - Traffic and Access Control Point

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

4.2.2.20. Van Buren County - Van Buren Health Department - Dosimetry Storage

- a. MET: 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

4.2.2.21. Van Buren County - Joint Information

Center Representative - PNPP

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

4.2.2.22. Van Buren County - Decatur High School -

Congregate Care Center

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

4.2.2.23. Van Buren County - Gobles High School -

Evacuee Monitoring and Decontamination

- a. MET: 1.d.1, 1.e.1, 3.a.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. Van Buren County - Gobles High School -

Evacuee Monitoring and Decontamination of

Vehicles

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

4.2.2.25. Van Buren County - Harford Fire Department - Emergency Worker Monitoring and Decontamination of Equipment and Vehicles

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

4.2.2.26. Van Buren County - Harford Fire Department - Emergency Worker Monitoring and Decontamination

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

APPENDIX 1

ACRONYMS AND ABBREVIATIONS

ACCDC	Allegan County Central Dispatch Center
ACEMD	Allegan County Emergency Management Director
ACEOC	Allegan County Emergency Operations Center
ACSD	Allegan County Sheriff's Department
ACSO	Allegan County Sheriff's Office
ALARA	As Low As Reasonably Achievable
ARC	American Red Cross
ARCA	Area Requiring Corrective Action
ARES	Amateur Radio Emergency Services
BCEMD	Berrien County Emergency Management Director
BCEOC	Berrien County Emergency Operations Center
BCEWS	Berrien County Early Warning System
BCHD	Berrien County Health Department
BCPSCDC	Berrien County Public Safety Communication Dispatch Center
BCSD	Berrien County Sheriff's Department
BCSO	Berrien County Sheriff's Office
BOC	Board of Commissioners
CAP	Civil Air Patrol
CCC	Congregate Care Center
CD V	Civil Defense Category V
CEDE	Committed Effective Dose Equivalent
CEO	Chief Executive Official
CG	Coast Guard
CME	Chief Medical Executive
cpm	Counts per minute
CSP	Community Shelter Program
DHS	Department of Human Services
DOE	Department of Energy
DOPD	Director of Office of Domestic Preparedness
DRD	Direct- Reading Dosimeter
DW	Decontamination Workers
EAS	Emergency Alert System
ECL	Event Classification Level
EMAC	Emergency Management Assistance Compact
EMC	Emergency Management Coordinator
EMD	Emergency Management Director
EMHSD	Emergency Management and Homeland Security Division
EMS	Emergency Medical Service
EMWIN	Emergency Managers Weather Information Network
EOF	Emergency Operations Facility
EOP	Emergency Operations Plan
EPA	Environmental Protection Agency
EPD	Electronic Personal Dosimeter

EPZ	Emergency Planning Zone
EW	Emergency Worker
EWDC	Emergency Worker Decontamination Center
FAA	Federal Aviation Administration
FD	Fire Department
FEMA	Federal Emergency Management Agency
FIA	Family Independence Agency
FMT	Field Monitoring Teams
FRMAC	Federal Radiological Monitoring and Assistance Center
FT	Field Teams
FTC	Field Team Center
FTCC	Field Team Center Coordinator
FTL	Field Team Leader
GAR	Governor's Authorized Representative
GE	General Emergency
GIS	Geographic Information System
GM	Geiger-Mueller
GPS	Global Positioning System
HFD	Hartford Fire Department
HP	Health Physicist
HPRT	Health Physics Response Team
HPS	Health Physics Support
IAP	Incident Action Plan
ICS	Incident Command System
INP	Initial Notification Point
IPZ	Ingestion Planning Zone
ISD	Intermediate Schools District
JIC	Joint Information Center
JIS	Joint Information System
JPIT	Joint Public Information Team
KI	Potassium iodide
LEIN	Law Enforcement Information Network
LIS	Land Information Systems
LNO	Liaison Officer
MAARS	Mutual Aid Automatic Response System
MCT	Mobile Computer Terminal
MDA	Michigan Department of Agriculture
MDCH	Michigan Department of Community Health
MDCR	Michigan Department of Civil Rights
MDEQ	Michigan Department of Environmental Quality
MDHAL	Michigan Department of History, Arts and Libraries
MDHS	Michigan Department of Human Services
MDIT	Michigan Department of Information Technology
MDLEG	Michigan Department of Labor and Economic Growth
MDMB	Michigan Department of Management and Budget
MDMVA	Michigan Department of Military and Veterans Affairs
MDNR	Michigan Department of Natural Resources
MDOC	Michigan Department of Corrections
MDOE	Michigan Department of Education

MDOS	Michigan Department of State
MDOT	Michigan Department of Transportation
MDT	Michigan Department of Treasury
MEMP	Michigan Emergency Management Plan
MING	Michigan National Guard
MOSA	Michigan Office of Services to the Aging
MPSCS	Michigan Public Safety Communications System
mR/Hr	milliRoentgens per hour
MSP	Michigan State Police
MSUE	Michigan State University Extension
NAWAS	National Warning System
NDMS	National Disaster Medical System
NFEMP	Nuclear Facility Emergency Management Plan
NFERP	Nuclear Facilities Emergency Response Procedures
NIMS	National Incident Management System
NOUE	Notification of an Unusual Event
NRC	Nuclear Regulatory Commission
NWS	National Weather Service
OEM	Office of Emergency Management
OGC	Operations Group Chief
OSLD	Optically Stimulated Luminescent Detector
PAD	Protective Action Decision
PAG	Protective Action Guideline
PAO	Protective Action Order
PAR	Protective Action Recommendation
PD	Police Department
PENF	Palisades Event Notification Form
PM	Portal Monitor
PNPP	Palisades Nuclear Power Plant
PPE	Personal protective equipment
R/Hr	Roentgens per hour
RAC	Regional Assistance Committee
RACES	Radio Amateur Civil Emergency Services
rad	Radiation Absorbed Dose
RADEF	Radiological Defense
RADPRO	Radiological Protection
RDL	Radiological Decon Leader
RDO	Radiation Defense Officer
rem	Roentgen Equivalent Man
RESTAT	Resources Status
RIC	Radiological Information Coordinator
RPL	Radiological Protection Laboratory
RPO	Radiological Protection Officer
RRT	Radiological Response Team
RSO	Radiation Safety Officer
SA	Staging Area
SAE	Site Area Emergency
SEOC	State Emergency Operations Center
SHAES	South Haven Area Emergency Services

SITREP	Situation Report
SOP	Standard Operation Procedure
SPIO	State Public Information Officer
SS	School Services
SWGMM	Side Window Geiger Meters
TACP	Traffic and Access Control Points
TCP	Traffic Control Point
TEDE	Total Effective Dose Equivalent
TLD	Thermoluminescence Dosimeter
TSG	Technical Support Group
UAC	Unified Area Command
uCi	microCurie
USCG	United States Coast Guard
VBC	Van Buren County
VBCCDC	Van Buren County Communication Dispatch Center
VBCDHD	Van Buren/Cass County District Health Department
VBCDODP	Van Buren County Director of the Office of Domestic Preparedness
VBCEOC	Van Buren County Emergency Operations Center
VBCPWD	Van Buren County Public Works Department
VBCSD	Van Buren County Sheriff's Department
VBCSO	Van Buren County Sheriff's Office
VBEMS	Van Buren Emergency Medical Services
VBISD	Van Buren Intermediate School District
VBISDS	Van Buren Intermediate School District Superintendent
WDC	Worker Decontamination Center
WPS	Wireless Priority Service

APPENDIX 2

EXERCISE EVALUATORS AND TEAM LEADERS

DATE: 2008-09-30, SITE: Palisades Nuclear Power Plant, MI

LOCATION	EVALUATOR	AGENCY
State of Michigan - Initial Notification Point	Nick Lowe	ICFI
State of Michigan - State Emergency Operations Center	Alejandro Fernandez Nick Lowe Roy Smith	ICFI ICFI ICFI
State of Michigan - SEOC Technical Support Group	David Jacobson	ICFI
State of Michigan - Field Team Center MDOT Coloma - Dosimetry Briefing - Emergency Worker / Traffic and Access Control Point	Richard Smith	ICF
State of Michigan - Michigan Department of Environmental Quality Field Monitoring Team 1 - PSD Monroe	Richard Smith	ICF
State of Michigan - Michigan Department of Environmental Quality Field Monitoring Team 2 - PSD Monroe	David Stuenkel	ICFI
State of Michigan - Michigan Department of Environmental Quality Field Monitoring Team 3 - PSD Monroe	Dennis Wilford	ICFI
State of Michigan - Field Team Center - Traffic and Access Control Point Dosimetry Briefing - MDEQ Representative	Richard McPeak	ICFI
State of Michigan - Michigan State Police - Traffic and Access Control Point	Richard McPeak	ICFI
State of Michigan - Allegan County Emergency Operations Center - State Liaison	Carl Wentzell	ICFI
State of Michigan - Berrien County Emergency Operations Center - State Liaison	Walter Gawlak	ICFI
State of Michigan - Van Buren County Emergency Operations Center - State Liaison	Paul Nied	ICFI
State of Michigan - Joint Information Center - DC Cook	Robert Black	ICFI
State of Michigan - Joint Information Center - Rumor Control - PNPP	Robert Black	ICFI
State of Michigan - Decatur Fire Station - Emergency Worker Monitoring and Decontamination - MDEQ Representative	Richard McPeak	ICFI
State of Michigan - Eau Claire High School - Evacuee Monitoring and Decontamination of Vehicles - MDEQ Representative	Roy Smith	ICFI
State of Michigan - Gobles High School - Evacuee Monitoring and Decontamination - MDEQ Representative	Dennis Wilford	ICFI
State of Michigan - Gobles High School - Evacuee Monitoring and Decontamination of Vehicles - MDEQ Representative	Richard Smith	ICF
State of Michigan - Harford Fire Station - Emergency Worker Monitoring and Decontamination of Equipment and Vehicles - MDEQ Representative	Nick Lowe	ICFI
State of Michigan - Harford Fire Station - Emergency Worker Monitoring and Decontamination - MDEQ Representative	David Stuenkel	ICFI
State of Michigan - Watervliet HS - Emergency Worker Monitoring and Decontamination - MDEQ Representative	Adrian Miron	ICF
State of Michigan - Watervliet HS - Emergency Worker Monitoring and Decontamination of Equipment and Vehicles - MDEQ Representative	Richard Grundstrom	FEMA RIX
Allegan County - Initial Notification Point	Bruce Swiren	ICFI
Allegan County - Emergency Operations Center	Mark Lowman Bruce Swiren Carl Wentzell	ICF ICFI ICFI
Allegan County - Dosimetry Briefing - Emergency Worker / Traffic and Access Control Point	Mark Lowman	ICF
Allegan County - Traffic and Access Control Point	Carl Wentzell	ICFI

Allegan County - Joint Information Center Representative - PNPP	Robert Black	ICFI
Berrien County - Initial Notification Point	Gary Bolender	ICFI
Berrien County - Emergency Operations Center	Gary Bolender Walter Gawlak Adrian Miron	ICFI ICFI ICF
Berrien County - Dosimetry Briefing - Emergency Worker / Traffic and Access Control Point	Walter Gawlak	ICFI
Berrien County - Traffic and Access Control Point	Adrian Miron	ICF
Berrien County - Joint Information Center Representative - DC Cook	Robert Black	ICFI
Berrien County - Emergency Alert System Radio Station WJR AM - 760	Robert Duggleby	ICFI
Berrien County - Eau Claire High School - Congregate Care Center	Robert Duggleby	ICFI
Berrien County - Eau Claire High School - Evacuee Monitoring and Decontamination of Vehicles	David Jacobson	ICFI
Berrien County - Eau Claire High School - Evacuee/Emergency Worker Monitoring and Decontamination, Registration of Evacuees	Alejandro Fernandez	ICFI
Berrien County - Watervliet High School - Emergency Worker Vehicle & Equipment Monitoring & Decontamination	Robert Duggleby	ICFI
Van Buren County - Initial Notification Point	Richard Grundstrom	FEMA RIX
Van Buren County - Emergency Operations Center	*Clinton Crackel Paul Nied Robert Vork	FEMA RV ICFI ICFI
Van Buren County - Dosimetry Briefing - Emergency Worker / Traffic and Access Control Point	Robert Vork	ICFI
Van Buren County - Traffic and Access Control Point	David Ortman	FEMA RV
Van Buren County - Van Buren Health Department - Dosimetry Storage	Robert Vork	ICFI
Van Buren County - Joint Information Center Representative - PNPP	Robert Black	ICFI
Van Buren County - Decatur High School - Congregate Care Center	Michael Meshenberg	ICFI
Van Buren County - Gobles High School - Evacuee Monitoring and Decontamination	Robert Vork	ICFI
Van Buren County - Gobles High School - Evacuee Monitoring and Decontamination of Vehicles	David Ortman	FEMA RV
Van Buren County - Harford Fire Department - Emergency Worker Monitoring and Decontamination of Equipment and Vehicles	Michael Meshenberg	ICFI
Van Buren County - Harford Fire Department - Emergency Worker Monitoring and Decontamination	David Ortman	FEMA RV
* Team Leader		

APPENDIX 2

PALISADES NUCLEAR POWER PLANT REP EXERCISE EXERCISE ASSIGNMENTS

September 16, 2008

<u>NAME</u>	<u>POSITION</u>	<u>TELEPHONE</u>
William E. King	Chairman, Regional Assistance Committee	(W) (312) 408-5575 (C) (312) 848-0991
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Robert Black	Evaluator	
Clark Duffy	On-the-Job Training	
Sonia Eischen	Evaluator	
Alejandro Fernandez	Evaluator	
Walter Gawlak	Evaluator	
Richard Grundstrom	Evaluator	
David Jacobson	Evaluator	
Nick Lowe	Evaluator	
Richard McPeak	Evaluator	
Adrian Miron	Evaluator	
Paul Nied	Evaluator	
Richard Smith	Evaluator	
Roy Smith	Evaluator	
David Stuenkel	Evaluator	
Dennis Wilford	Evaluator	
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Robert Black	Evaluator	
Mark Lowman	Evaluator	
Bruce Swiren	Evaluator	
Carl Wentzell	Evaluator	

Carolyn Sturghill
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Gary Bolender
Robert Duggleby
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David Jacobson
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Adrian Miron

Evaluator
Evaluator
Evaluator
Evaluator
Evaluator
Evaluator
Observer
Evaluator

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Van Buren County

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Robert Black
Clinton Crackel
Edward Diaz
Robert Duggleby
Richard Grundstrom
Michael Meshenberg
Paul Nied
David Ortman
Robert Vork

Evaluator
Evaluator
Observer
Evaluator
Evaluator
Evaluator
Evaluator
Evaluator
Evaluator

APPENDIX 3

STATE OF MICHIGAN, AND ALLEGAN, BERRIEN AND VAN BUREN COUNTIES EXTENT OF PLAY AGREEMENT FOR THE PALISADES NUCLEAR POWER PLANT REP EXERCISE

September 16, 2008

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.

State of Michigan

1. The State Emergency Operations Center (SEOC) and Field Team Center (FTC) will be fully activated. State personnel reporting to the SEOC will be mobilized in accordance with procedures.
2. State personnel reporting to the county EOC's and FTC will be pre-positioned and will report when mobilized by the SEOC.
3. State personnel reporting to the JIC will be pre-positioned and will begin participation after the arrival of county JIC personnel.
4. State personnel involved in out of sequence demonstrations will be prestaged.
5. A roster will be provided to demonstrate 24-hour staffing.

Allegan County

1. The Allegan County EOC will be fully activated. Personnel will be mobilized in accordance with procedures.
2. Allegan County personnel reporting to the JIC will be pre-positioned and will begin participation upon notification by the JIC Controller.
3. All personnel involved in out of sequence demonstrations will be pre-positioned.
4. Rosters will be provided to demonstrate 24-hour staffing for the county EOC.

Berrien County

1. The Berrien County EOC will be fully activated and mobilized in accordance with procedures.
2. Berrien County JIC personnel will be pre-positioned and will begin participation upon notification by the JIC Controller.
3. All personnel involved in out of sequence demonstrations will be pre-positioned.
4. A roster will be provided to demonstrate 24-hour staffing of the EOC.

Van Buren County

1. The Van Buren County EOC will be fully activated. Personnel will be mobilized in accordance with procedures.

2. Van Buren County JIC personnel will be pre-positioned and will begin participation upon notification by the JIC Controller.
3. All personnel involved in out of sequence demonstrations will be pre-positioned.
4. Rosters will be provided to demonstrate 24-hour staffing for the county EOCs.

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

State of Michigan

1. The State Emergency Operations Center (SEOC) is maintained in operational readiness and set up will not be demonstrated.
2. The Field Team Center will be partially set up on Monday afternoon September 15th and the balance of operations set up on Tuesday, September 16th. The facility set up will be evaluated on Tuesday, September 16th only.

Allegan County

Allegan County EOC is maintained in operational readiness.

Berrien County

Berrien County EOC is maintained in operational readiness.

Van Buren County

Van Buren County EOC will be set up prior to the start of the exercise.

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.

State of Michigan, Allegan, Berrien & Van Buren Counties

This criterion will be demonstrated at the SEOC, county EOC's, FTC, and JIC.

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

State of Michigan, Allegan, Berrien & Van Buren Counties

This criterion will be demonstrated by the SEOC, county EOC's, FTC, JIC and the Public Reception/Decon Centers, Emergency Worker Decon Centers and Access Control. If both the primary and back-up systems fail, this objective may be demonstrated by successful use of an alternate method of communication.

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

State of Michigan, Allegan, Berrien & Van Buren Counties

1. Equipment, maps, displays, and other supplies will be demonstrated to support emergency operations at the SEOC, JIC, FTC, county EOC's and out of sequence events.
2. Personnel involved in traffic and access control points will demonstrate knowledge of where to secure traffic control equipment.
3. Potassium iodide and dosimetry are stored at each county's emergency management office and at the MSP/EMHSD office in Lansing. Van Buren County stores 25 bottles at the emergency management office and the remaining at the Community Health office.
4. The Michigan Department of Environmental Quality maintains supplies of potassium iodide and dosimetry for use by its personnel.
5. Documentation related to KI shelf life extension is maintained by MSP/EMHSD and will be provided to FEMA at the Pre-Exercise Briefing along with instrument calibration data.

EVALUATION AREA 2 - PROTECTIVE ACTION DECISION MAKING

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

State of Michigan

1. The ability to make the decision to recommend the use of KI to emergency workers will be demonstrated by the SEOC.
2. Authorization to exceed state exposure limits will be demonstrated. If the scenario does not provide an opportunity to demonstrate these items, a controller inject will be issued to demonstrate the ability to perform these actions.

Note: This criterion may be re-demonstrated as approved on a case-by-case basis by the Chair of the Radiological Preparedness Coordinating Committee.

Allegan, Berrien & Van Buren Counties

This criterion does not apply to the counties and will not be demonstrated by the counties.

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.

State of Michigan

1. The Technical Support Group in the SEOC will evaluate licensee and FTC provided information and complete an independent analysis of scenario data.
2. Dose assessment evaluation will be conducted in the SEOC and/or FTC as appropriate.

Note: This criterion may be re-demonstrated as approved on a case-by-case basis by the Chair of the Radiological Preparedness Coordinating Committee.

Allegan, Berrien & Van Buren Counties

This criterion does not apply to the counties and will not be demonstrated by the counties.

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).

State of Michigan

This criterion will be demonstrated by the Incident Management Group in the SEOC in conjunction with applicable support staff. I.e., Technical Support Group and MDCH.

Note: This criterion may be re-demonstrated as approved on a case-by-case basis by the Chair of the Radiological Preparedness Coordinating Committee.

Allegan, Berrien & Van Buren Counties

This criterion does not apply to the counties and will not be demonstrated by the counties.

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

State of Michigan

This criterion will be demonstrated by the Incident Management Group in the SEOC in conjunction with applicable support staff through the decision to recommend the use of KI to institutionalized persons.

Allegan, Berrien & Van Buren Counties

1. Lists of transportation dependent and special needs populations are kept by each county. No personnel will be moved. No phone calls to transportation dependent persons will be made. Simulation of calls will be logged as such.
2. Equipment lists and rosters will be available in the county EOCs.

Berrien & Van Buren Counties

The School Services Representatives in the Berrien and Van Buren County EOCs will make phone contact with affected school districts if schools are in session. No scenario information will be discussed during these calls.

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

This criterion will not be demonstrated during this 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 OROs plan and/or procedures.

This criterion will not be demonstrated during this 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.

State of Michigan

The State of Michigan will demonstrate this criterion at the FTC and at out of sequence activities utilizing MDEQ personnel. The briefing on dosimetry and KI use by the State of Michigan access control demonstration and MDEQ field teams will be at the FTC.

Allegan, Berrien & Van Buren Counties

Berrien and Van Buren Counties will demonstrate this criterion out of sequence at the reception center and decontamination centers. Allegan County will demonstrate this criterion via interviews with Public Rec/Decon and EWD Center managers at the EOC. Berrien and Van Buren County will demonstrate this criterion at the access control point when emergency workers are issued dosimeters for use. Allegan County will demonstrate this criterion for the ACP via interview at the EOC.

Note: This criterion may be re-demonstrated immediately for credit, at the discretion of the evaluator.

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

State of Michigan

The State will demonstrate this objective at the Field Team Center and through decision-making and directives to implement appropriate Protective Action Orders.

Allegan, Berrien & Van Buren Counties

1. This criterion will be demonstrated during the traffic and access control demonstrations for Allegan, Berrien and Van Buren Counties. Response personnel will demonstrate knowledge of when it is appropriate to take KI, but not actually ingest it.
2. KI will be distributed to emergency workers in Allegan, Berrien and Van Buren Counties along with their dosimetry.

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

State of Michigan

This criterion will not be demonstrated by the state.

Allegan, Berrien & Van Buren Counties

1. This criterion will be demonstrated in the county EOCs via EOC staff discussions which may include evacuation of hospitals, nursing homes, correctional facilities, mobility impaired individuals, and transportation dependent. These discussions will be documented in situation logs.
2. Actual contacts to special population groups will not be made. Simulation of calls will be logged as such.
3. Allegan, Berrien and Van Buren Counties will contact a maximum of four providers of transportation services, which may include public transit authorities, school systems for buses, ambulance services, or fire/rescue services. There will be no discussion of scenario information during these calls.

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

State of Michigan

This criterion will not be demonstrated by the state.

Allegan Berrien & Van Buren Counties

1. This criterion will be demonstrated in Allegan, Berrien and Van Buren County EOCs as driven by the scenario. If schools are not in session, the FEMA evaluator will conduct an interview with the schools representative in the county EOCs.
2. An EV-2 interview will be conducted in Berrien and Van Buren Counties. Refer to the Table of Exercise Demonstrations for specific times and locations.

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

State of Michigan

1. This criterion will be demonstrated by the SEOC through the opening or closing of air, rail and water ways.
2. The state will demonstrate an access control point. Demonstration locations will be determined during the exercise at a time agreed upon by the FEMA evaluator and the State Controller at the FTC.
3. Staffing of all other access and traffic control points will be simulated.

Allegan, Berrien & Van Buren Counties

1. Decisions related to traffic and access control will be demonstrated in Allegan, Berrien and Van Buren County EOCs. Allegan, Berrien and Van Buren County ACP demonstration locations will be determined during the exercise at a time agreed upon by the FEMA evaluator, the EMHSD Controller, and the county emergency management coordinator. Van Buren and Berrien Counties will dispatch one vehicle for the ACP evaluation. Allegan County will demonstrate this Criterion via interview with an Officer at the EOC.
2. Staffing of all other access and traffic control points will be simulated.

Note: This criterion may be re-demonstrated immediately for credit, at the discretion of the evaluator.

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

State of Michigan

This criterion will not be demonstrated by the state.

Allegan, Berrien & Van Buren Counties

This will be demonstrated through discussions at the county EOCs. Messages will be injected by EMHSD Controllers to drive these demonstrations. Personnel will deal with the impediments by discussing the need for equipment, discussing its estimated time of arrival, etc. If the impediment posed involves road closures that would have been known to exercise participants during the course of normal operations, this information will be provided to the players as part of the initial conditions for the exercise. All contacts, actual or simulated will be logged.

Note: This criterion may be re-demonstrated immediately for credit, at the discretion of the evaluator.

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.

This criterion will not be demonstrated during this 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.

This criterion will not be demonstrated during this 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.

This criterion will not be demonstrated during this 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.

This criterion will be demonstrated during this exercise at the Field Team Center by State personnel. Three field teams will demonstrate this criterion.

Field teams will have instruments capable of measuring gamma exposure rates and detecting the presence of beta radiation. These instruments will be capable of measuring a range of activity and exposure consistent with the intended use of the instrument and the State's plans and procedures, including radiological protection/exposure control of team members and detection of activity on the air sample collection media. All instruments, including air sampling flow meters, will be operated, maintained, and calibrated in accordance with the manufacturer's recommendations. A label indicating such calibration will be on each instrument or verifiable by other means. An appropriate radioactive check source will be used to verify proper operational response for each radiation measurement instrument (less than 1 R/hr) and for high range instruments when available.

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

This criterion will be demonstrated during this exercise at the Field Team Center by the State.

Field measurements will be taken to help characterize the release and to support the adequacy of implemented protective actions or to be a factor in modifying protective actions. Teams will be directed to take measurements in such locations, at such times to provide information sufficient to characterize the plume and impacts.

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.

This criterion will be demonstrated during this exercise at the Field Team Center by State personnel. Three field teams will demonstrate the capability to report measurements and field data pertaining to the measurement of airborne radioiodine and particulates to the field team center coordinator (FTCC), dose assessment.

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.

This criterion will be not be demonstrated during this exercise.

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

This criterion will not be demonstrated during this 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 offsite emergency officials to notify the public of an emergency situation. The initial instructional message to the public must include as a minimum the elements required by current FEMA REP guidance.

State of Michigan

The State will provide information to each county for release in the Emergency Alert System messages.

Van Buren County

The Van Buren County Sheriff Department is the primary activation point for the public warning sirens. Van Buren County also activates the Emergency Alert System. An interview with WSJM personnel will be conducted by FEMA following transmittal of EAS messages.

Allegan & Berrien Counties

Allegan and Berrien Counties will provide, as needed, information to Van Buren County for inclusion in EAS messages.

Note: This criterion may be re-demonstrated as approved on a case-by-case basis by the Chair of the Radiological Preparedness Coordinating Committee.

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.

The Palisades EPZ does not contain any FEMA approved exception areas. This criterion will not be demonstrated during this exercise.

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

State of Michigan, Allegan, Berrien & Van Buren Counties

1. This will be demonstrated at the JIC via dissemination of emergency information and instructions through joint media briefings and news release announcements in

coordination with the SEOC and County EOCs. All media briefings will be conducted at the JIC.

2. A public inquiry hotline will be operated by Entergy personnel based at the JIC during the exercise. Trending is performed by the Public Inquiry Coordinator, who identifies trends and ensures appropriate information is provided to the public inquiry operators and the JIC for inclusion in media briefings.

Note: This criterion may be re-demonstrated as approved on a case-by-case basis by the Chair of the Radiological Preparedness Coordinating Committee.

EVALUATION AREA 6 - SUPPORT OPERATIONS/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.

State of Michigan

State DEQ HP personnel will provide assistance as requested during these demonstrations.

Allegan County

Allegan County will not demonstrate separate emergency worker decontamination center and a public reception/decontamination center out-of sequence from the exercise.

Van Buren County

1. Van Buren County will fully demonstrate separate emergency worker and public reception/decontamination centers out-of sequence from the exercise.
2. Public reception centers will demonstrate 1/3 of the monitoring teams required to monitor 20% of the population allocated to that facility within a 12 hour time period. Each team will monitor six individuals.

Berrien County

1. Berrien County will fully demonstrate separate emergency worker and public reception/decontamination centers out-of sequence from the exercise.
2. Public reception centers will demonstrate 1/3 of the monitoring teams required to monitor 20% of the population allocated to that facility within a 12 hour time period. Each team will monitor six individuals.

Note: This criterion may be re-demonstrated immediately for credit, at the discretion of the evaluator.

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.

State of Michigan

1. State DEQ HP personnel will provide assistance as requested during these demonstrations at local EWD.
2. The State of Michigan Field Team Center will also demonstrate this criterion. Emergency vehicles will be monitored and decontaminated as appropriate.

Berrien & Van Buren Counties

1. Berrien and Van Buren Counties will each fully demonstrate an emergency worker/equipment decontamination center out of sequence with the exercise.
2. Emergency vehicles will be monitored and decontaminated as appropriate.

Allegan County

Allegan County will not demonstrate an emergency worker decontamination center.

Note: This criterion may be re-demonstrated immediately for credit, at the discretion of the evaluator.

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.

Berrien & Van Buren Counties

Berrien and Van Buren Counties will each fully demonstrate a congregate care center out of sequence with the exercise. This facility will be set up in advance of the demonstration. Personnel manning the center will not go through alert, mobilization, activation, or shift changes.

Note: This criterion may be re-demonstrated immediately for credit, at the discretion of the evaluator.

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.

A date for this criterion demonstration will be determined

Note: This criterion may be re-demonstrated immediately for credit, at the discretion of the evaluator.

Appendix 4 - Palisades 2008 REPEX Off-Site Exercise Scenario and Timeline

Time	Events	SEOC Actions	AEOC Actions	BEOC Actions	VBEOC Actions	JPIC Actions	FTC Actions
0800	<ul style="list-style-type: none"> Initial conditions provided to SCR. 						
0820	<ul style="list-style-type: none"> Unusual Event Declared due to seismic event under Natural Phenomeno n. Local & State notifications made. 	<ul style="list-style-type: none"> MSP Operations notified by plant. MSP Operations notifies MSP/EMHS D and MDEQ/DWR PS. 	<ul style="list-style-type: none"> Sheriff Dispatch notified by Van Buren County and MSP LEIN. 	<ul style="list-style-type: none"> Sheriff Dispatch notified by Van Buren County and MSP LEIN. 	<ul style="list-style-type: none"> Sheriff Dispatch notified by plant and MSP LEIN. Sheriff Dispatch notifies Allegan and Berrien Counties. Dispatch notifies EM & Chairperson. 		
0855	<ul style="list-style-type: none"> Alert declared. Local & State notifications made. OSC, TSC, and EOF activated. 15 minute notification update established. 	<ul style="list-style-type: none"> MSP Operations notified by plant. MSP Operations notifies MSP/EMHS D and MDEQ/DWR PS. SEOC activation begun. 	<ul style="list-style-type: none"> Sheriff Dispatch notified by Van Buren County and MSP LEIN. Dispatch notifies EM & Chairperson. EOC 	<ul style="list-style-type: none"> Sheriff Dispatch notified by Van Buren County and MSP LEIN. Dispatch notifies EM & Chairperson. EOC 	<ul style="list-style-type: none"> Sheriff Dispatch notified by plant and MSP LEIN. Sheriff Dispatch notifies Allegan and Berrien Counties. Dispatch notifies EM 	<ul style="list-style-type: none"> JPIC activation begun. Utility personnel will not demonstrate A/N or facility setup. State and 	<ul style="list-style-type: none"> FTC is activated for exercise.

Appendix 4 - Palisades 2008 REPEX Off-Site Exercise Scenario and Timeline

Time	Events	SEOC Actions	AEOC Actions	BEOC Actions	VBEOC Actions	JPIC Actions	FTC Actions
		<ul style="list-style-type: none"> MSP Operations notifies Allegan, Berrien, and Van Buren Counties. Activation of JPIC and FTC begun. SEOC notifies FEMA and Ontario. 	<ul style="list-style-type: none"> activation begun. 	<ul style="list-style-type: none"> activation begun. 	<ul style="list-style-type: none"> Chairperson. EOC activation begun. 	<ul style="list-style-type: none"> Allegan, Berrien and Van Buren County JPIC personnel pre-positioned. 	
	<ul style="list-style-type: none"> Hotline established to SEOC. TSC & OSC operational. 	<ul style="list-style-type: none"> SEOC operational. Governor may declare State of Emergency/ Disaster. Hotlines opened to plant and counties. Plant instructed to terminate notifications to Van Buren 	<ul style="list-style-type: none"> EOC activation underway. Hotline opened to SEOC. 	<ul style="list-style-type: none"> EOC activation underway. Hotline opened to SEOC. 	<ul style="list-style-type: none"> EOC activation underway. Hotline opened to SEOC. 	<ul style="list-style-type: none"> Communications initiated with SEOC. 	

Appendix 4 - Palisades 2008 REPEX Off-Site Exercise Scenario and Timeline

Time	Events	SEOC Actions	AEOC Actions	BEOC Actions	VBEOC Actions	JPIC Actions	FTC Actions
0935	<ul style="list-style-type: none"> • EOF operational. 	<ul style="list-style-type: none"> • County. Notifications to counties via SEOC. 	<ul style="list-style-type: none"> • EOC operational. R/D & CCCs placed on standby. 	<ul style="list-style-type: none"> • EOC operational R/D & CCCs placed on standby. 	<ul style="list-style-type: none"> • EOC operational Siren system and EAS station placed on standby. • R/D & CCCs placed on standby. 	<ul style="list-style-type: none"> • JPIC operational. 	<ul style="list-style-type: none"> • FTC operational Communications initiated with SEOC • Field Teams dispatched
1025	<ul style="list-style-type: none"> • Site Area Emergency declared due to Loss of Fission Product Barriers 	<ul style="list-style-type: none"> • Plant notifies SEOC within 15 minutes. • Notifications to counties via SEOC. • If not done previously, declare State of Emergency/ Disaster. 					

Appendix 4 - Palisades 2008 REPEX Off-Site Exercise Scenario and Timeline

Time	Events	SEOC Actions	AEOC Actions	BEOC Actions	VBEOC Actions	JPIC Actions	FTC Actions
1125 -	<ul style="list-style-type: none"> • General Emergency (GE) declared due to three failed fission product barriers • Protective action recommend ation (PAR) made to State Director. 	<ul style="list-style-type: none"> • Evaluates PAR. • Decides on a Protective Action Order (PAO). • Issues PAO to counties. • Requests federal assistance via FEMA. • Issues further PAOs as needed. 	<ul style="list-style-type: none"> • Provides necessary EAS information to VBEOC. • Implements PAO. • R/D and CCCs activated. 	<ul style="list-style-type: none"> • Provides necessary EAS information to VBEOC. • Implements PAO. • R/D and CCCs activated. 	<ul style="list-style-type: none"> • Sounds sirens. • Issues EAS message. • Implements PAO. • R/D and CCCs activated. 	<ul style="list-style-type: none"> • Informed of GE and PAO by SEOC. • Informs media. 	
1210	<ul style="list-style-type: none"> • Plant issues second PAR to SEOC based exceeding PAG's at 5 miles 	<ul style="list-style-type: none"> • Evaluates PAR. • Decides on a Protective Action Order (PAO). • Issues PAO to counties. • Notifies JPIC, FTC, Ontario, and FEMA of GE and PAO. 	<ul style="list-style-type: none"> • Provides necessary EAS information to VBEOC. • Implements PAO. 	<ul style="list-style-type: none"> • Provides necessary EAS information to VBEOC. • Implements PAO. 	<ul style="list-style-type: none"> • Sounds sirens. • Issues EAS message. • Implements PAO. 	<ul style="list-style-type: none"> • Informed of PAO by SEOC. • Informs media. 	<ul style="list-style-type: none"> • Informed of PAO by SEOC

Appendix 4 - Palisades 2008 REPEX Off-Site Exercise Scenario and Timeline

Time	Events	SEOC Actions	AEOC Actions	BEOC Actions	VBEOC Actions	JPIC Actions	FTC Actions
1240	<ul style="list-style-type: none"> Plant terminates exercise play with State. 	Exercise play terminated when all objectives demonstrated. <ul style="list-style-type: none"> May terminate independentl y. 	<ul style="list-style-type: none"> Exercise play terminated when all objectives demonstrate d. May terminate independentl y. 	<ul style="list-style-type: none"> Exercise play terminated when all objectives demonstrate d. May terminate independentl y. 	<ul style="list-style-type: none"> Exercise play terminated when all objectives demonstrate d. May terminate independentl y. 	<ul style="list-style-type: none"> Exercise play terminated when all objectives demonstrate d. May terminate independentl y. 	<ul style="list-style-type: none"> Exercise play terminated when all objectives demonstrate d. May terminate independentl y.