

Kewaunee Power Station
Exercise Report - 2009-06-23
Final Report - Radiological Emergency
Preparedness (REP) Program
2009-09-22





FEMA

Exercise Report

Kewaunee Power Station

Exercise Date: 2009-06-23

Report Date: 2009-09-22

U.S. DEPARTMENT OF HOMELAND SECURITY

Federal Emergency Management Agency

REP Program

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1. Executive Summary

On June 23, 2009, a Radiological Emergency Preparedness (REP) Full Participation Plume Exposure Pathway Exercise was scheduled for the 10-mile Emergency Planning Zone (EPZ) around the Kewaunee Power Station (KPS) 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.

The most recent exercise at this site was conducted on December 4, 2007. The qualifying emergency preparedness exercise was conducted on January 21, 1981.

DHS/FEMA would like to acknowledge the efforts of the many individuals who participated in the exercise. In the State of Wisconsin the risk counties of Kewaunee and Manitowoc.

Protecting the public health and safety is the full-time job of some of the exercise participants and additional assigned responsibility of 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 the exercise.

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

State of Wisconsin

Evacuee/Emergency Worker Monitoring/Decontamination

Evacuee Vehicle Monitoring/Decontamination

Emergency Worker Vehicle Monitoring/Decontamination

Manitowoc County

There were no out of sequence activities

Kewaunee County

Dosimetry Distribution - Reception Center

Registration - Reception Center

Congregate Care Center

EV2 - Host School Interview - Luxemburg School District

Medical Services (MS-1) - Transportation

There were no deficiencies identified during this exercise.

There were five Areas Requiring Corrective Action (ARCA) identified for the State of Wisconsin during this exercise. Two of these ARCAs were successfully redemonstrated during the exercise.

The first ARCA for the State of Wisconsin was identified under Criterion 1. c. 1 - Direction and Control - whereby the lack of team briefings and group discussion of key issues reduced the effectiveness of direction and control in the State Radiological Coordinator Room.

The second ARCA for the State of Wisconsin was identified under Criterion 5. b. 1 - Emergency Information and Instructions to the Public and the Media - whereby the Virginia Call Center did not receive JIC News Releases, EAS Messages and Special News Broadcast Messages for the public.

The third ARCA for the State of Wisconsin was identified under Criterion 6. a. 1 - Monitoring and Decontamination of Evacuees and Emergency Workers - whereby there were insufficient personnel to staff the Manitowoc County Vehicle Monitoring and Decontamination Station, staff received inadequate training on procedures, and staff inadequately demonstrated the proper use of instrumentation.

The fourth ARCA for the State of Wisconsin was identified under Criterion 6. d. 1 - Monitoring and Decontamination of Emergency Worker Equipment - whereby the hospital personnel did not understand how to determine background radiation readings. This ARCA was successfully redemonstrated.

The fifth ARCA for Manitowoc County was identified under Criterion 3. a. 1 - Implementation of Emergency Worker Exposure Control - The Transportation Supervisor did not conduct a dosimetry briefing. This ARCA was successfully redemonstrated.

There was one ARCA from a previous exercise identified for the State of Wisconsin under Criterion 6.a.1 - Monitoring and Decontamination of Evacuees and Emergency Workers - whereby appropriate steps were not taken to address possible cross-contamination of reception center personnel who responded to an injured and potentially contaminated evacuee. This ARCA was corrected during this exercise.

There was one ARCA from a previous exercise identified for Manitowoc County under Criterion 5.b.1 - Emergency Information and Instruction for the Public and the Media - whereby conflicting Livestock Advisory instructions were given to the media during a briefing at the Joint Information Center (JIC). This criterion was successfully demonstrated during this exercise.

There was one ARCA from a previous exercise identified for Kewaunee County under Criterion 5.b.1 - Emergency Information and Instruction for the Public and the Media - whereby conflicting Livestock Advisory instructions were given to the media during a briefing at the JIC. This criterion was successfully demonstrated during this exercise.

2. Introduction

On December 7, 1979, the President directed FEMA to assume the lead responsibility for all offsite nuclear planning and response. FEMA's activities are conducted pursuant to 44 Code of Federal Regulations (CFR) Parts 350, 351, and 352. These regulations are a key element in the Radiological Emergency Preparedness (REP) Program that was established following the Three Mile Island Nuclear Station accident in March 1979.

FEMA Rule 44 CFR 350 establishes the policies and procedures for 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.

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

- Taking the lead in offsite emergency planning and in the review and evaluation of RERPs and procedures developed by State and local governments;
- Determining whether such plans and procedures can be implemented on the basis of observation and evaluation of exercises of the plans and procedures conducted by State and local governments;
- Responding to requests by the U.S. Nuclear Regulatory Commission (NRC) pursuant to the Memorandum of Understanding between the NRC and FEMA dated June 17, 1993 (Federal Register, Vol. 58, No. 176, September 14, 1993); and
- Coordinating the activities of Federal agencies with responsibilities in the radiological emergency planning process:
 - U.S. Department of Agriculture;
 - U.S. Department of Commerce;
 - 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 Kewaunee Power Station to FEMA Region V by the State of Wisconsin and involved local jurisdictions occurred on April 4, 1984. Formal approval of these RERPs was granted by FEMA on August 5, 1984 under 44 CFR 350.

A REP Full Participation Plume Exposure Pathway Exercise was conducted on June 23, 2009, and evaluated by DHS/FEMA Region V to assess the capabilities of State and local offsite emergency preparedness organizations in implementing their RERPs and procedures to protect the public health and safety during a radiological emergency involving the Kewaunee Power Station. The purpose of this exercise report is to present the exercise results and findings on the performance of the offsite response organizations (ORO) during a simulated radiological emergency.

The findings presented in this report are based on the evaluations of the Federal evaluation team, with final determinations made by the DHS/FEMA Region V RAC Chairperson, 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; Notice" 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, if applicable, 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 June 23, 2009, REP Full Participation Plume Exposure Pathway Exercise to test the offsite emergency response capabilities in the area surrounding the Kewaunee Power Station. This section of the exercise report includes a description of the 10-mile Emergency Planning Zone, a listing of all participating jurisdictions and functional entities that were evaluated, and a tabular presentation of the time of the actual occurrence of key exercise events and activities.

3.1. EPZ Description

The Kewaunee Power Station occupies a 900-acre site located on the Lake Michigan shore, in the town of Carlton, nine miles south of Kewaunee, Wisconsin and 35 miles southeast of Green Bay, Wisconsin. The plant began commercial operations on June 16, 1974.

The Kewaunee Power Station, which is owned and operated by Dominion Energy Kewaunee, Inc., has one Westinghouse Electric pressurized water nuclear reactor that generates approximately 560 megawatts of electrical power. In an average year, the plant generates approximately 2.26 billion kilowatt-hours of electricity, which is sufficient to supply the yearly energy needs of the Green Bay metropolitan area plus the remaining homes and farms in Brown, Kewaunee, Door, Marinette, Oconto and Winnebago Counties. These counties have a population of approximately 500,000 people.

The nearest population centers of 25,000 people or more are, according to the 2000 census, Manitowoc located 13 miles south of the site, has a population of approximately 32,547; Green Bay located 35 miles northwest of the site has a population of approximately 87,899 people; Appleton located 43 miles west of the site has a population of approximately 59,032 people; and Sheboygan located approximately 36 miles from the site has a population of 48,085 people. There are no other population centers with populations greater 25,000 that are within 50-miles of the Kewaunee Power Station. The town of Two Rivers, which is located 10 miles south of the site, had a 2000 census population of 13,354. The total population located within the 10-mile plume pathway EPZ was 22,700.

The following radiological emergency planning Sub-areas are included within the 10-mile EPZ; 5, 10N, 10NW, 10W, 10SW and 10S.

3.2. Exercise Participants

Agencies and organizations of the following jurisdictions participated in the Kewaunee Power Station exercise:

State Jurisdictions

- University of Wisconsin Extension - Agriculture and Natural Resources
- Wisconsin Department of Agriculture, Trade & Consumer Protection
- Wisconsin Department of Commerce
- Wisconsin Department of Corrections
- Wisconsin Department of Health and Family Services - Public Health Section
- Wisconsin Department of Health Services - Radiation Protection Section
- Wisconsin Department of Natural Resources
- Wisconsin Department of Transportation
- Wisconsin Emergency Management
- Wisconsin State Patrol

Risk Jurisdictions

- Kewaunee County Board
- Kewaunee County High School
- Kewaunee County Highway Department
- Kewaunee County Human Services
- Kewaunee County Public Health Department
- Kewaunee County Sheriff's Department
- Luxemburg Casco School District
- Valders School District

Support Jurisdictions

- Manitowoc County Board
- Manitowoc County Emergency Management
- Manitowoc County Health Department
- Manitowoc County Highway Department
- Manitowoc County Human Services Department
- Manitowoc County Joint Dispatch Center
- Manitowoc County Sheriff's Department
- Manitowoc Fire Department
- Michicot School District

Private Jurisdictions

- American Red Cross
- Dominion Energy Kewaunee, Inc.
- Holy Family Medical Center
- Lakeshore Aviation
- Public Service Commission of Wisconsin
- Radio Amateur Civil Emergency Services
- Salvation Army

Federal Jurisdictions

- U.S. Department of Transportation
- U.S. Nuclear Regulatory Commission
- U.S. Coast Guard
- U.S. Department of Agriculture

3.3. Exercise Timeline

Table 1, on the following page, presents the times at which key events and activities occurred during the Kewaunee Power Station Radiological Emergency Preparedness (REP) Full Participation Plume Exposure Pathway Exercise conducted on June 23, 2009. Included are times that notifications were made to the participating jurisdictions and functional entities.

Table 1 - Exercise Timeline
DATE: 2009-06-23, SITE: Kewaunee Power Station, WI

Emergency Classification Level or Event	Time Utility Declared	WI-SEOC---	WI-SEOC--RadCord-	WI-JIC--Media Ctr-	KEW-EOC---	MAN-EOC---
Unusual Event	N/A	N/A	N/A	N/A	N/A	N/A
Alert	0751	0805	0758	0840	0821	0810
Site Area Emergency	0958	1014	1000	0958	1012	1010
General Emergency	1106	1120	1109	1106	1117	1120
Simulated Rad. Release Started	0751	0805	0751	0840	0821	0810
Simulated Rad. Release Terminated	N/A	N/A	N/A	N/A	N/A	N/A
Facility Declared Operational		0855	0855	0840	0855	0852
Declaration of State of Emergency		1028	N/A	1028	1133	1127
Exercise Terminated		1315	1315	1316	1315	1315
Early Information Message		N/A	N/A	N/A	0857	N/A
1st Early Precautionary Actions: Counties		N/A	N/A	N/A	0857	0857
2nd Early Precautionary Action Decision- State		0852	N/A	N/A	N/A	N/A
1st Protective Action Decision:		1118	N/A	N/A	1126	1126
1st Siren Activation		N/A	N/A	N/A	1129	1129
1st EAS or EBS Message		N/A	N/A	N/A	1136	1133
2nd Protective Action Decision:		N/A	N/A	N/A	N/A	N/A
2nd Siren Activation		N/A	N/A	N/A	N/A	N/A
2nd EAS or EBS Message		N/A	N/A	N/A	N/A	N/A
KI Administration Decision: State		0958	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 June 23, 2009, Full Participation Plume Exposure Pathway Exercise to test offsite emergency response capabilities of State and local governments within the 10-mile EPZ surrounding the Kewaunee Power Station.

Each jurisdiction and functional entity was evaluated based on its demonstration of exercise criteria delineated in Federal Register Notice/vol. 67, no. 80, dated April 25, 2002. Detailed information on the exercise criteria and the extent of play agreement used in this exercise are found in Appendix 3 of this report.

4.1. Summary Results of Exercise Evaluation

The matrix in Table 2, on the following page(s), presents the status of all exercise criteria from the Federal Register Notice Volume 67, Number 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 are indicated by the following letters:

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

D - Deficiency/(ies) assessed

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

N - Not Demonstrated (Reason explained in section 4.2)

Blank - Not scheduled for demonstration

Table 2 - Summary of Exercise Evaluation (4 pages)

<p>DATE: 2009-06-23 SITE: Kewaunee Power Station, WI</p> <p>A: ARCA, D: Deficiency, M: Met, N: Not Demonstrated</p>		WI-SWC#2-IWP-	WI-SEOC---	WI-SEOC--RadCord-	WI-MRL---	WI--RAFT#1--	WI--RAFT#2--	WI-JIC--Media Ctr-	WI-EOC KEW--SL-	WI-EOC MAN--SL-	WI-VIR CC--JIC/RC-	WI-Hwy Dept--EvWMD-
Emergency Operations Management												
Mobilization	1a1	M	M	M	M	M	M	M			M	
Facilities	1b1										M	
Direction and Control	1c1		M	A	M			M	M	M	M	
Communications Equipment	1d1	M	M	M	M	M	M	M			M	M
Equip & Supplies to support operations	1e1		M	M	M	M	M	M			M	M
Protective Action Decision Making												
Emergency Worker Exposure Control	2a1		M	M	M							
Radiological Assessment and PARs	2b1		M	M								
Decisions for the Plume Phase - PADs	2b2		M	M					M	M		
PADs for protection of special populations	2c1		M	M								
Rad Assessment and Decision making for Ingestion Pathway	2d1											
Rad Assess/Decision making concerning Relocation, Reentry, and Return	2e1											
Protective Action Implementation												
Implementation of emergency worker exposure control	3a1				M	M	M					M
Implementation of KI decision	3b1				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											
Impediments to evacuation are identified and resolved	3d2											
Implementation of ingestion pathway decisions - availability/use of info	3e1											
Materials for Ingestion Pathway PADs are available	3e2											
Implementation of relocation, re-entry, and return decisions	3f1											
Field Measurement and Analysis												
Adequate Equipment for Plume Phase Field Measurements	4a1					M	M					
Field Teams obtain sufficient information	4a2				M							
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		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					A	M	M	M	
Support Operations/Facilities												
Mon/Decon of evacuees and EWs and registration of evacuees	6a1											A
Mon/Decon of EW worker equipment	6b1											
Temporary care of evacuees	6c1											
Transportation and treatment of contaminated injured individuals	6d1											

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

DATE: 2009-06-23 SITE: Kewaunee Power Station, WI A: ARCA, D: Deficiency, M: Met, N: Not Demonstrated		WI-Hwy Dept--	XXXWI-MAN-RC-Hwy	WI-Holy Family MC--	WI-Algoma HS--	KEW-Algoma HS--	WI-Algoma HS--	KEW-SDC-IWP---	KEW-EOC----	KEW--Sheriff's-TCP-	MAN-JIC--PIO-
Emergency Operations Management											
Mobilization	1a1							M	M		
Facilities	1b1										
Direction and Control	1c1								M		
Communications Equipment	1d1	M	M	M	M	M	M	M	M	M	
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 Ingestion Pathway	2d1										
Rad Assess/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	
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	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
Support Operations/Facilities											
Mon/Decon of evacuees and EWs and registration of evacuees	6a1	M			M	M					
Mon/Decon of EW worker equipment	6b1		M				M				
Temporary care of evacuees	6c1										
Transportation and treatment of contaminated injured individuals	6d1			M							

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

DATE: 2009-06-23 SITE: Kewaunee Power Station, WI A: ARCA, D: Deficiency, M: Met, N: Not Demonstrated			KEW-JIC--PIO-	KEW-EAS-WSRG---	KEW-Lux/Cas SD--EV2-	KEW-Annex Bldg--DDP-	KEW---Route Alert-	KEW-Algoma HS--DDP-	KEW-Algoma HS--RC-	KEW-Algoma HS--CCC-	KEW-Algoma HS-	MAN-SDCIWP---
Emergency Operations Management												
Mobilization	1a1						M					M
Facilities	1b1											
Direction and Control	1c1											
Communications Equipment	1d1		M	M	M	M	M	M	M	M	M	M
Equip & Supplies to support operations	1e1			M	M	M	M	M			M	
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 Ingestion Pathway	2d1											
Rad Assess/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					
Implementation of protective actions for special populations - EOCs	3c1											
Implementation of protective actions for Schools	3c2			M								
Implementation of traffic and access control	3d1											
Impediments to evacuation are identified and resolved	3d2											
Implementation of ingestion pathway decisions - availability/use of info	3e1											
Materials for Ingestion Pathway PADs are available	3e2											
Implementation of relocation, re-entry, and return decisions	3f1											
Field Measurement and Analysis												
Adequate Equipment for Plume Phase Field Measurements	4a1											
Field Teams obtain sufficient information	4a2											
Field Teams Manage Sample Collection Appropriately	4a3											
Post plume phase field measurements and sampling	4b1											
Laboratory operations	4c1											
Emergency Notification and Public Info												
Activation of the prompt alert and notification system	5a1		M									
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										
Support Operations/Facilities												
Mon/Decon of evacuees and EWs and registration of evacuees	6a1							M				
Mon/Decon of EW worker equipment	6b1											
Temporary care of evacuees	6c1								M			
Transportation and treatment of contaminated injured individuals	6d1										M	

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

DATE: 2009-06-23 SITE: Kewaunee Power Station, WI A: ARCA, D: Deficiency, M: Met, N: Not Demonstrated			MAN-EOC---	MAN-SD--DDP-	MAN--Sheriff-TCP-	MAN--Lakeshore Avn-	MAN-EAS-	MAN--Michicot SD-EV2-	MAN-Hwy Dept--DDP-	MAN--MAN Fire/EMS--	MAN-Hwy Dept--	MAN-Roncalli HS--CCC-
Emergency Operations Management												
Mobilization	1a1	M										
Facilities	1b1											
Direction and Control	1c1	M										
Communications Equipment	1d1	M	M	M	M	M	M	M	M	M	M	M
Equip & Supplies to support operations	1e1	M	M	M				M	M	M	M	
Protective Action Decision Making												
Emergency Worker Exposure Control	2a1	M										
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 Ingestion Pathway	2d1											
Rad Assess/Decision making concerning Relocation, Reentry, and Return	2e1											
Protective Action Implementation												
Implementation of emergency worker exposure control	3a1	M	M	M	M			M	M	M		
Implementation of KI decision	3b1	M	M	M	M				M			
Implementation of protective actions for special populations - EOCs	3c1	M										
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	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			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										
Support Operations/Facilities												
Mon/Decon of evacuees and EWs and registration of evacuees	6a1										M	
Mon/Decon of EW worker equipment	6b1											
Temporary care of evacuees	6c1											M
Transportation and treatment of contaminated injured individuals	6d1									M		

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 was 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."

The DHS/FEMA has developed a standardized system for numbering exercise issues (Deficiencies and ARCAs). This system is used to achieve consistency in numbering exercise issues among DHS/FEMA Regions and site-specific exercise reports within each Region. It also 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. Planning Issues are reported to the State(s) via a letter from the Regional Administrator. Therefore, standardized issue numbers are not assigned to Planning Issues.
- Exercise Identification Number – A separate two- (or three) digit indexing number assigned to each issue identified in the exercise.

4.2.1. Wisconsin Jurisdictions

4.2.1.1. State of Wisconsin - State Warning Center

#2 - Initial Warning Point

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

4.2.1.2. State of Wisconsin - Emergency Operations Center

- 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, 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 Wisconsin - State Emergency Operations Center - Radiological Coordinator

- a. MET: 1.a.1, 1.d.1, 1.e.1, 2.a.1, 2.b.1, 2.b.2, 2.c.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: 1.c.1.

ISSUE NO.: 33-09-1c1-A-01

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

CONDITION: A lack of adequate direction and control resulted in team performance being less than optimal. There were no team briefings and no opportunities were taken to have a group discussion of key issues at hand.

POSSIBLE CAUSE: Direction and control steps are missing from the SRC's procedure.

REFERENCE: NUREG 0654, A.1.d: A.2.a, b

EFFECT: Team briefings present opportunities for the exchange of information between participants, and because they did not take place, team functioning was less than optimal. Group discussions of key issues, such as the dose assessment which assumed containment failure, would have likely facilitated additional thoughts which would have demonstrated that the assumption had no basis and that the assessment would have been rejected.

RECOMMENDATION: Modify the SRC's SOP to include team briefings and ad hoc discussions of key issues amongst the group.

SCHEDULE OF CORRECTIVE ACTION; The following actions will be taken in response to ARCA #33-09-1.c.1-A-01 issued against the State of Wisconsin, State Radiological Coordinator (SRC) Room. During the plume phase, the SRC is responsible for independently assessing the impact of a nuclear plant incident on the public/emergency workers and rapidly making protective action recommendations (PARs). The staff in Room 105 are there to support the SRC in this effort. Staff are encouraged to provide relevant information to the SRC to aid in the evaluation process. However, it is the SRC's individual responsibility to assess all input and make the final PARs it is not a collaborative or consensus process. Once the plume phase of the incident is over the management style of the SRC changes into more of a consensus style with input via participating agencies and staff.

Additional training will be provided to the SRC staff to encourage a management style that fosters command and control appropriate to the response. During training, the SRC will be encouraged to conduct additional briefings and foster a team environment. However, the decision making authority for developing PARs during the plume phase must remain with the SRC.

This ARCA (#33-09-1.c.1-A-01) will be re-demonstrated at the October 2010 Point Beach Exercise.

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

4.2.1.4. State of Wisconsin - Mobile Radiological Laboratory

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

4.2.1.5. State of Wisconsin - Restricted Area Field Team#1

- 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 Wisconsin - Restricted Area Field Team#2

- 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 Wisconsin - Joint Information Center - Media Center

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

ISSUE NO.: 33-09-5b1-A-05

CRITERION: OROs provide accurate emergency information and instructions to the public and the news media in a timely manner. (NUREG-0654, E.5., 7., G.3.a, G.4.a.b.c)

CONDITION: The Virginia Call Center did not receive JIC News Releases, EAS and Special News Broadcast messages regarding protective action decisions for the public.

POSSIBLE CAUSE: The JIC did not ensure News Releases, EAS Messages and Special News broadcasts concerning protective actions were forwarded from the Dominion Representative in the JIC in Green Bay to the Call Center in Virginia.

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

EFFECT: The Virginia Call Center was not able to provide all available information to the public regarding protective actions. This could have caused confusion and delayed appropriate response actions by the public.

RECOMMENDATION: Develop and implement procedural checks and balances to ensure that the JIC provides appropriate information to all Public Inquiry Hotline Call Center personnel informing the public about plant conditions, protective actions and other vital information.

SCHEDULE OF CORRECTIVE ACTION; The following actions will be taken in response to ARCA #33-09-5.b.1-A-05 issued against the State of Wisconsin, Joint Information Center (JIC). Within the Joint Information Center

(JIC) a Co-JIC manager structure will be implemented. A Utility JIC manager would focus on the utility aspect and the Government JIC Manager would focus on the state and county aspect. Both would have a set of procedures that would provide a systematic method to establish accountability and assurance that procedures and duties are fulfilled. The JIC managers would not be spokespersons for the counties, state, or the utility, rather they would provide assurance that procedures and tasks have been accomplished.

This ARCA (#33-09-5.b.1-A-05) will be re-demonstrated at the October 2011 Kewaunee Power Station exercise.

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

4.2.1.8. State of Wisconsin - Kewaunee County

Emergency Operations Center - State Liaison

- a. MET: 1.c.1, 2.b.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

4.2.1.9. State of Wisconsin - Manitowoc County

Emergency Operations Center - State Liaison

- a. MET: 1.c.1, 2.b.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

4.2.1.10. State of Wisconsin - Virginia Call Center - Joint Information Center/Rumor Control

- a. MET: 1.a.1, 1.b.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

4.2.1.11. State of Wisconsin - Highway Department - Evacuee and Emergency Worker Monitoring and Decontamination

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

ISSUE NO.: 33-09-6a1-A-04

CRITERION: 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. (NUREG-0654, J.10.h., K.5.b)

CONDITION: Vehicle monitoring and decontamination staff received inadequate training and/or practice on procedures and how to use instruments.

Plans and procedures were inadequate for contamination control, monitoring and decontamination of equipment. Procedures were missing for re-uniting the evacuees and Emergency Workers with their vehicles and separating out Emergency Worker vehicles from evacuee vehicles for prioritization purposes.

Personnel did not read their DRD's.

Additionally, there were an inadequate number of personnel available to staff the vehicle monitoring and decontamination stations to complete necessary tasks.

POSSIBLE CAUSE: Plans and procedures do not address adequate means to establish contamination controls and prevent cross contamination.

Procedures do not exist for re-unification of evacuees and Emergency Workers with their vehicles and movement of vehicles from the monitoring station. Additionally, vehicle monitoring and decontamination staff received inadequate training on the use of the instruments and on the SOPs.

REFERENCE: NUREG 0654, J.10.h; J.12; K.5.a; K.5.b; K.3.a,b

EFFECT: Vehicles could become contaminated from inadequate contamination controls being implemented. By knowing which vehicles were Emergency Worker vehicles, it would also assist the Vehicle Monitors in identifying additional areas to monitor within the vehicle (i.e. sampling teams may put their equipment in the trunk, which is not an area that is indicated in the SOPs to monitor for Evacuee vehicle de-contamination).

Finally, entry to the Reception Center is through this station. If this station is not fully staffed, there may be issues on the facilities ability to monitor 20% of the population in 12 hours.

Personnel could have exceeded exposure limits by not regularly reading their DRDs as percribed by current plans and procedures.

Plans and procedures for monitoring vehicles were followed; however are incomplete and inadequate. Plans and procedures should include specific position responsibilities/duties (Vehicle Monitors, Recorder, Driver, Decontaminator/Washer). Additional procedures are needed on how to move vehicles, without cross-contamination, from the monitoring station to the decontamination station, clean parking lot and/or vehicle holding area. Additional training on cross contamination (changing gloves, probe covers, monitoring of each other) should be conducted.

Procedures need to be developed on re-unification of evacuees and Emergency Workers with their vehicles after monitoring and decontamination is completed and to identify and separate out Emergency Worker vehicles

from evacuee vehicles. The procedure for identification of vehicles should be written down as well.

In-depth training on procedures and the correct use of instruments should be developed. More staff should be trained and integrated into staffing the Emergency Worker Decontamination Center. Additionally, how and when to read the DRD's should be addressed.

RECOMMENDATION: SCHEDULE OF CORRECTIVE ACTION; The following actions will be taken in response to ARCA #33-09-6.a.1-A-04 issued against the State of Wisconsin for the Manitowoc County Reception Center. Additional personnel will be assigned to the vehicle monitoring and decontamination stations. This will allow both stations to be staffed at all times during the response. Additional staffing also provides for an adequate number of personnel to move evacuee vehicles as necessary. State and Manitowoc County staff will review applicable vehicle monitoring and decontamination procedures, and revise as necessary. This will ensure that the procedures adequately address the process of vehicle monitoring, decontamination, and movement. The training strategy and content for the Manitowoc County Reception Center staff will be reviewed and modified as necessary to eliminate areas of inadequacy. The changes in training will ensure that procedures addressing vehicle monitoring and decontamination will be adequately performed by staff assigned to the vehicle monitoring and decontamination stations.

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

4.2.1.12. State of Wisconsin - Highway Department - Emergency Worker Monitoring and Decontamination of Equipment and Vehicles

- 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

4.2.1.13. XXXWisconsin - County Highway Commission- Manitowoc County Reception Center Emergency Worker Vehicle/Equipment Monitoring/Decontamination

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

4.2.1.14. State of Wisconsin - Holy Family Medical Center - Medical Service - Facility

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

ISSUE NO.: 33-09-6d1-A-02

CRITERION: Facility/ORO has the appropriate space, adequate resources, and trained personnel to provide transport, monitoring, decontamination, and medical services to contaminated injured individuals. (NUREG-0654, F.2., H.10., K.5.a.b., L.1., 4)

CONDITION: The Nuclear Medical Technician did not understand how to determine background radiation readings.

POSSIBLE CAUSE: The Nuclear Medical Technician had a misunderstanding of how to determine background radiation readings. He thought that various readings taken at different areas of the Radiation Emergency Area were cumulative.

REFERENCE: NUREG-0654, F.2., H.10., K.5.a.b., L.1., 4; GM MS-1 Medical Services

EFFECT: Radiation Emergency Area staff would evaluate an item's contamination level based on an incorrect assessment of background radiation. This evaluation would have allowed an item greater than 100 cpm above background to be released as clean. During this exercise, a reading of 230 cpm that was determined as clean would actually be approximately 180 cpm above background which is above the hospital administrative limit for contamination of 100 cpm.

CORRECTIVE ACTION DEMONSTRATED: The exercise was stopped by the controller to provide instruction on the proper way to determine background radiation levels and the presence of contamination. The controller ensured that the Radiation Emergency Area staff understood the impact of correct background readings to determine the presence of contamination.

The exercise play was resumed and was successfully demonstrated.

SCHEDULE OF CORRECTIVE ACTION; The following actions will be taken in response to ARCA #33-09-6.d.1-A-02 issued against the State of Wisconsin, Medical Services Drill, Facility - Holy Family Memorial Medical Center, Manitowoc WI. Remedial training will be conducted on the use of radiation detection equipment to determine background readings.

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

4.2.1.15. State of Wisconsin - Algoma High School - Evacuee/Emergency Worker Monitoring and Decontamination

- 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: 6.a.1.

ISSUE NO.: 33-07-6a1-A-07

ISSUE: A member of the general public with a simulated injury and radiological contamination arrived at the entrance to the Algoma Reception Center (RC). Two members of the RC Monitoring/Decontamination staff assisted the victim to a simulated “HotZone” (marked by tape on the RC’s gymnasium floor) and placed him on a backboard. The RC staff wore Personal Protective Equipment (PPE) consisting of booties and two pairs of latex gloves. While the two reception center staff moved the patient from the entranceway of the RC to the HotZone, their outer clothing came in contact with the patient’s clothing, which, according to the scenario, was contaminated. The possibility of cross-contamination was not recognized, and neither HotZone reception center staff was monitored for contamination.

CORRECTIVE ACTION DEMONSTRATED: An evacuee and an emergency worker that were determined to be contaminated were properly processed through the monitoring and decontamination facility. During the processing of contaminated personnel, proper surveying and contamination controls were demonstrated. Personnel conducting monitoring were sensitive to possible transfer of contamination and took proper actions of frisking any area or material that came in contact with potentially contaminated material.

- f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.16. Kewaunee County - Algoma High School - Evacuee/Emergency Worker Registration

- 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

4.2.1.17. State of Wisconsin - Algoma High School - Emergency Worker Monitoring and Decontamination of Equipment and Vehicles

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

4.2.2. Risk Jurisdictions

4.2.2.1. Kewaunee County - Sheriffs Dispatch Center - Initial Warning Point

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

4.2.2.2. Kewaunee 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. Kewaunee County - Sheriff's Department - Traffic 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

4.2.2.4. Manitowoc County - Joint Information Center - Public Information Officer

- a. MET: 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.: 33-07-5b1-A-09

ISSUE: During Media Briefing #3, which was delivered during the SAE ECL, the PIO representing the Counties read a statement from a prescribed Livestock Agricultural Advisory, which was also released by the JIC at the Site Area Emergency ECL, that included contradictory instructions by stating:

“THIS PRECAUTIONARY RECOMMENDATION IS FOR LIVESTOCK OWNERS WITHIN TEN MILES OF THE KEWAUNEE POWER STATION. SHOULD EVACUATION BECOME NECESSARY, WE RECOMMEND THAT LIVESTOCK BE MOVED TO SHELTER AND PLACED ON STORED FEED AND WATER ...” The Livestock Advisory is a precautionary action to be taken before, rather than concurrently with, protective actions for the public.

CORRECTIVE ACTION DEMONSTRATED: Instructions for the Livestock Advisory form (which appears prominently at the top of the form) have been revised to read: “THIS MESSAGE SHOULD NOT BE BROADCAST CONCURRENTLY WITH EVACUATION MESSAGES!” This form was used to communicate the livestock advisory for both Kewaunee and Manitowoc Counties during the Kewaunee Plume Exercise on June 23, 2009. Subsequent to its issue, a Special News Broadcast (K EVAC 5) was issued (attached to an Emergency Alerting System (EAS) Message) by the Governor and officials from Kewaunee and Manitowoc Counties ordering the evacuation of people in certain areas of the two counties. This broadcast message included the following statement: “Livestock owners in these areas who were previously advised to shelter and place livestock on stored feed and water should discontinue those activities and comply with the evacuation order immediately.”

This message was directly reinforced through information provided by the Kewaunee and Manitowoc County Public Information Officers (PIOs) and the Joint Information Center (JIC) Radiation Protection Section Advisor to the mock media during the third press briefing at the JIC, which commenced at 1149 hours.

- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.5. Kewaunee County - Joint Information Center - Public Information Officer

- a. MET: 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.: 33-07-5b1-A-08

ISSUE: During Media Briefing #3, which was delivered during the SAE ECL, the PIO representing the Counties read a statement from a prescribed Livestock Agricultural Advisory, which was also released by the JIC at the Site Area Emergency ECL, that included contradictory instructions by stating: "THIS PRECAUTIONARY RECOMMENDATION IS FOR LIVESTOCK OWNERS WITHIN TEN MILES OF THE KEWAUNEE POWER STATION. SHOULD EVACUATION BECOME NECESSARY, WE RECOMMEND THAT LIVESTOCK BE MOVED TO SHELTER AND PLACED ON STORED FEED AND WATER ..." The Livestock Advisory is a precautionary action to be taken before, rather than concurrently with, protective actions for the public.

CORRECTIVE ACTION DEMONSTRATED: Instructions for the Livestock Advisory form (which appears prominently at the top of the form) have been revised to read: "THIS MESSAGE SHOULD NOT BE BROADCAST CONCURRENTLY WITH EVACUATION MESSAGES!" This form was used to communicate the livestock advisory for both Kewaunee and Manitowoc Counties during the Kewaunee Plume Exercise on June 23, 2009. Subsequent to its issue, a Special News Broadcast (K EVAC 5) was issued (attached to an Emergency Alerting System (EAS) Message) by the Governor and officials from Kewaunee and Manitowoc Counties ordering the evacuation of people in certain areas of the two counties. This broadcast message included the following statement: "Livestock owners in these areas who were previously advised to shelter and place livestock on stored feed and water should discontinue those activities and comply with the evacuation order immediately."

This message was directly reinforced through information provided by the Kewaunee and Manitowoc County Public Information Officers (PIOs) and the Joint Information Center (JIC) Radiation Protection Section Advisor to the mock media during the third press briefing at the JIC, which commenced at 1149.

- f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.6. Kewaunee County - Emergency Alert System - WSRG

- a. MET: 1.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

4.2.2.7. Kewaunee County - Luxemburg/Casco School District - Evacuation School

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

4.2.2.8. Kewaunee County - Annex Building - Dosimetry Distribution Point

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

4.2.2.9. Kewaunee County - Route Alerting - Exception Area

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

4.2.2.10. Kewaunee County - Algoma High School - Dosimetry Distribution Point

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

4.2.2.11. XXXKewaunee County - Evacuee/Emergency Worker Registration - Kewaunee County Reception Center - Algoma High School

- a. MET: 1.d.1, 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

4.2.2.12. Kewaunee County - Algoma High School - Congregate Care Center

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

4.2.2.13. Kewaunee County - Algoma High School - Algoma Rescue Squad - Medical Service-Transportation

- 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

4.2.2.14. Manitowoc County - Sheriffs Dispatch Center - Initial Warning Point

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

4.2.2.15. Manitowoc 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

4.2.2.16. Manitowoc County - Sheriffs Department - Dosimetry Distribution Point

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

4.2.2.17. Manitowoc County - Sheriffs Department - Traffic Control Post

- 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

4.2.2.18. Manitowoc County - Lakeshore Aviation - Route Alerting

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

4.2.2.19. Manitowoc County - Emergency Alert System - WCUB/WLTU

- a. MET: 1.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

4.2.2.20. Manitowoc County - Michicot School District - Evacuation School

- a. MET: 1.d.1, 1.e.1, 3.a.1, 3.c.2.
- b. AREAS REQUIRING CORRECTIVE ACTION: 3.a.1.

ISSUE NO.: 33-09-3a1-A-03

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: The Transportation Supervisor did not conduct a dosimetry briefing.

POSSIBLE CAUSE: The Mishicot Radiological Evacuation Plan did not specify that the Transportation Supervisor should conduct a dosimetry briefing.

REFERENCE: NUREG-0654FEMA-REP-1 REV.1

O 1.Each organization shall assure the training of appropriate individuals.

EFFECT: The bus driver was unaware of his turn-back values or his exposure limit. When asked about his TLD, the driver stated that it would change color when exposed to radiation. The driver stated that the KI protected him from radiation but he was unaware of any specifics.

CORRECTIVE ACTION DEMONSTRATED: The Transportation conducted remedial training and performed a dosimetry briefing.

In a redemonstration, the driver had an adequate understanding of the SRDs, TLD and his exposure limit (3R). He understood that his SRDs are returned (at the emergency worker monitoring and decontamination center) at the end of his shift but that he keeps the TLD until the end of the emergency.

The Mishicot Superintendent stated that a dosimetry briefing form and instructions for the Transportation Supervisor to conduct a dosimetry briefing would be added to his area of the plan.

SCHEDULE OF CORRECTIVE ACTION; The following actions will be taken in response to ARCA #33-09-3.a.1-A-03 issued against Manitowoc County, for the Mishicot School Interview. The Mishicot School Superintendent will update the current plan to include a dosimetry briefing form as part of the standard operating procedure for the transportation supervisor. This briefing form will include instructions for transportation staff on the proper use of dosimetry. The procedures will be reviewed by the county Emergency Manager and remedial training will be conducted at the beginning of each school year.

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

4.2.2.21. Manitowoc County - Highway Department - Dosimetry Distribution Point

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

4.2.2.22. XManitowoc County - Manitowoc County Fire Department/EMS - Medical Service- Transportation

- 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

4.2.2.23. 1Manitowoc County - Highway Department - Evacuee/Emergency Worker Registration

- a. MET: 1.d.1, 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. Manitowoc County - Roncalli High School - Congregate Care Center

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

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

APPENDIX 1

ACRONYMS AND ABBREVIATIONS

APDCSO	Algoma Police Department Community Services Officer
ARC	American Red Cross
ARCA	Areas Requiring Corrective Action
ARES	Amateur Radio Emergency Services
BZR	Buffer Zone Recorder
BZS	Buffer Zone Surveyor
CAS	Central Alarm System
CBC	County Board Chairperson
CCC	Congregate Care Center
CDE	Cumulative Dose Exposure
CEO	Chief Elected Official
CSO	Community Service Officers
DC	Decontamination Coordinator
DDP	Dosimetry Distribution Point
DHS	Department of Homeland Security
DO	Duty Officer
DRD	Direct-Reading Dosimeter
EAL	Emergency Action Level
EAS	Emergency Alert System
ECL	Emergency Classification Level
ED	Emergency Department
EMA	Emergency Management Agency
EMD	Emergency Management Director
EMS	Emergency Medical Services
EOC	Emergency Operations Center
EOP	Emergency Operations Plan
EPZ	Emergency Planning Zone
ER	Emergency Room
ERDS	Emergency Response Data System
EW	Emergency Workers
FEMA	Federal Emergency Management Agency
FMT	Field Monitoring Team
FT	Field Teams
FTC	Field Team Coordinator
GE	General Emergency
GIS	Geographical Information System
HD	Health Department
HDC	Highway Department Coordinator
HFMMC	Holy Family Memorial Medical Center
HSC	Human Services Coordinator
IVR	Interactive Voice Response
IWP	Initial Warning Point
JDC	Joint Dispatch Center

JIC	Joint Information Center
KCHD	Kewaunee County Highway Department
KCHS	Kewaunee County Human Services
KCSD	Kewaunee County Sheriff's Department
KPS	Kewaunee Power Station
KSD	Kewaunee School District
LAN	Local Area Network
LCHS	Luxemburg Casco High School
NARS	Nuclear Accident Reporting System
NMT	Nuclear Medicine Technologist
NRC	Nuclear Regulatory Commission
NTSB	National Transportation Safety Board
ORO	Offsite Response Organizations
PAD	Protective Action Decision
PAR	Protective Action Recommendation
PI	Public Information
PIO	Public Information Officer
RAC	Regional Assistance Committee
RACES	Radio Amateur Civil Emergency Services
RC	Reception Center
REA	Radiological Emergency Area
REP	Radiological Emergency Preparedness
RO	Radiological Officer
RSO	Radiation Safety Officer
SAE	Site Area Emergency
SDO	Senior Duty Officer
SEOC	State Emergency Operations Center
SNB	Special News Broadcast
SRA	Supplementary Route Alerting
SRC	State Radiological Coordinator
TACP	Traffic Access Control Points
TEDE	Total Effective Dose Equivalent
TRPD	Two Rivers Police Department
UPS	Universal Power Source
USCG	United States Coast Guard
WANGA	Wisconsin Army National Guard Armory
WEM	Wisconsin Emergency Management

APPENDIX 2

EXERCISE EVALUATORS AND TEAM LEADERS

The following is a list of the personnel who evaluated the Kewaunee Power Station REP Full Participation Plume Exposure Pathway exercise on June 23, 2009. Evaluator Team Leaders are indicated by an asterisk “(*)” before their names. The organization which each evaluator represents is indicated by the following abbreviations:

DHS/FEMA Department of Homeland Security/ Federal Emergency Management Agency

U.S. DOT U.S. Department of Transportation

ICF ICF International

TITLE	NAME	ORGANIZATION
RAC Chairperson	William E. King	DHS/FEMA
Exercise Director	Gary Naskrent	DHS/FEMA
Site Specialist	James King	DHS/FEMA

LOCATION	EVALUATOR	AGENCY
State of Wisconsin - State Warning Center #2 - Initial Warning Point	Gary Bolender	ICF
State of Wisconsin - Emergency Operations Center	Gary Bolender Larry Harrington	ICF ICF
State of Wisconsin - State Emergency Operations Center - Radiological Coordinator	Thomas Essig	ICF
State of Wisconsin - Mobile Radiological Laboratory	Bernis Hannah	ICF
State of Wisconsin - Restricted Area Field Team#1	Steve Denson	ICF
State of Wisconsin - Restricted Area Field Team#2	David Jacobson	ICF
State of Wisconsin - Joint Information Center - Media Center	Debra Schneck	ICF
State of Wisconsin - Kewaunee County Emergency Operations Center - State Liaison	David Ortman	DHS/FEMA
State of Wisconsin - Manitowoc County Emergency Operations Center - State Liaison	Bridget Ahlgrim	DHS/FEMA
State of Wisconsin - Virginia Call Center - Joint Information Center/Rumor Control	William Vocke	ICF
State of Wisconsin - Highway Department - Evacuee and Emergency Worker Monitoring and Decontamination	Wendy Swygert	ICF
State of Wisconsin - Highway Department - Emergency Worker Monitoring and Decontamination of Equipment and Vehicles	Onalee Grady-Erickson	ICF
XXXWisconsin - County Highway Commission- Manitowoc County Reception Center Emergency Worker Vehicle/Equipment Monitoring/Decontamination	Onalee Grady-Erickson	ICF
State of Wisconsin - Holy Family Medical Center - Medical Service - Facility	Todd Gemskie	DHS/FEMA
State of Wisconsin - Algoma High School - Evacuee/Emergency Worker Monitoring and Decontamination	Todd Gemskie	DHS/FEMA
Kewaunee County - Algoma High School - Evacuee/Emergency Worker Registration	Henry Christiansen	ICF
State of Wisconsin - Algoma High School - Emergency Worker Monitoring and Decontamination of Equipment and Vehicles	Henry Christiansen	ICF
Kewaunee County - Sheriffs Dispatch Center - Initial Warning Point	Reggie Rodgers	ICF
Kewaunee County - Emergency Operations Center	Edward Diaz James King Kara Scott	DHS/FEMA DHS/FEMA DHS/FEMA
Kewaunee County - Sheriff's Department - Traffic Control Point	Jeffrey McSpaden	U.S. DOT
Manitowoc County - Joint Information Center - Public Information Officer	Debra Schneck	ICF
Kewaunee County - Joint Information Center - Public Information Officer	Debra Schneck	ICF
Kewaunee County - Emergency Alert System - WSRG	Don Calsyn	ICF
Kewaunee County - Luxemburg/Casco School District - Evacuation School	Henry Christiansen Tracey Green	ICF ICF
Kewaunee County - Annex Building - Dosimetry Distribution Point	Frank Cordaro	ICF
Kewaunee County - Route Alerting - Exception Area	Frank Cordaro	ICF
Kewaunee County - Algoma High School - Dosimetry Distribution Point	Clark Duffy	ICF
XXXKewaunee County - Evacuee/Emergency Worker Registration - Kewaunee County Reception Center - Algoma High School	Don Calsyn	ICF
Kewaunee County - Algoma High School - Congregate Care Center	Don Calsyn	ICF

Kewaunee County - Algoma High School - Algoma Rescue Squad - Medical Service-Transportation	Tracey Green	ICF
Manitowoc County - Sheriffs Dispatch Center - Initial Warning Point	Carl Bebrich	DHS/FEMA
Manitowoc County - Emergency Operations Center	Carl Bebrich Robert Duggleby Edward Golinski	DHS/FEMA ICF DHS/FEMA
Manitowoc County - Sheriffs Department - Dosimetry Distribution Point	*Bridget Ahlgrim James Greer	DHS/FEMA ICF
Manitowoc County - Sheriffs Department - Traffic Control Post	Richard Smith	ICF
Manitowoc County - Lakeshore Aviation - Route Alerting	William O'Brien	ICF
Manitowoc County - Emergency Alert System - WCUB/WLTU	Clark Duffy	ICF
Manitowoc County - Michicot School District - Evacuation School	James Greer	ICF
Manitowoc County - Highway Department - Dosimetry Distribution Point	John Zeidler	ICF
XManitowoc County - Manitowoc County Fire Department/EMS - Medical Service-Transportation	John Zeidler	ICF
1Manitowoc County - Highway Department - Evacuee/Emergency Worker Registration	William O'Brien	ICF
Manitowoc County - Roncalli High School - Congregate Care Center	William O'Brien	ICF
* Team Leader		

APPENDIX 3

EXERCISE CRITERIA AND EXTENT OF PLAY AGREEMENTS

This appendix lists the exercise criteria that were scheduled for demonstration in the REP Full Participation Exposure Pathway Exercise on June 23, 2009, for the Kewaunee Power Station and the off-site extent of play agreement approved by DHS/FEMA for the State of Wisconsin on June 10, 2009.

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 standard 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.

A. Exercise Criteria and the Extent of Play

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

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

**Kewaunee Power Station Exercise
Extent of Play Agreement
State of Wisconsin / Kewaunee and Manitowoc Counties**

Exercise Date: June 23, 2009

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LOCATIONS: The State of Wisconsin Emergency Operations Center (EOC) in Madison, the Kewaunee EOC in Algoma, and Manitowoc County EOC in Manitowoc. The Joint Information Center (JIC) is located in Green Bay, also reception centers and congregate care centers in Algoma and Manitowoc. In addition, the Dominion Call Center in Richmond, Virginia, and Holy Family Memorial Hospital in Manitowoc, with field operations in both Kewaunee and Manitowoc Counties.

This is a one day full participation plume exposure pathway exercise. The participating Off-site Response Organizations (OROs) will be the State of Wisconsin, Kewaunee and Manitowoc Counties.

Criteria that can be re-demonstrated immediately for credit, at the decision of the evaluator, include the following: 3.a.1, 3.b.1, 3.d.1, 3.d.2, 4.a.3, 4.b.1, 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 (RAC), include the following: 2.a.1, 2.b.1, 2.b.2, 5.a.1 and 5.b.1. The State of Wisconsin wishes to re-demonstrate any areas of concern during the week of the exercise, if possible.

TIME TABLE:

Activity	Date	Time	Location
Pre-exercise Briefing	June 22	~2:00 p.m.	Holiday Inn, Manitowoc, WI
KEW Reception Center	June 22	~6:30 p.m.	Kewaunee County Reception Center, Algoma High School 1715 Division St.
MS-1 Transportation	June 22	~6:30 pm.	Kewaunee County Reception Center, Algoma High School 1715 Division St.
KEW Red Cross Interview	June 22	~7:00 p.m.	Kewaunee County Reception Center, Algoma High School 1715 Division St.
KEW School Interview (Host)	<u>June 22</u>	<u>~10:30 a.m.</u>	LC Principals Office (Phone Interview) 512 Center Drive, Luxemburg
KEW School Interview (Evacuee)	June 23	~9:00 a.m.	Kewaunee School District Superintendents Office, 915 2 nd Street in the town of Kewaunee
KEW Radio Station Interview	June 23	~10:00 a.m.	WSRG-97.7 located at 1009 Egg Harbor Road, Sturgeon Bay
Plume Phase of Exercise	June 23		State and County EOCs, Various Field Locations
MAN Reception Center	June 23	~9:00 a.m.	Manitowoc County Highway Commission Reception Center, located at 3500 Highway

			310, Manitowoc
MAN Red Cross Interview	June 23	~0900 a.m.	Manitowoc County Highway Commission Reception Center, located at 3500 Highway 310, Manitowoc
MAN Radio Station Interview	June 23	~10:00 a.m.	WCUB Radio, 1915 Mirro Dr., Manitowoc
MAN Medical Drill (MS-1)	June 23	~9:15 a.m.	Holy Family Memorial Medical Center
MAN Aircraft Pilot Interview	June 23	TBD	Manitowoc Airport, 1815 Freedom Way, Manitowoc
MAN School Interview	June 23	1:00 p.m.	Mishicot School District Superintendent's Office, 660 Washington St., Mishicot
Participants' Briefing	June 26	10:00 am	Kewaunee County EOC
Public/Media Briefing	June 26	11:00 am	Kewaunee County EOC

TBD = Determined by EMD and the Evaluator

AREAS REQUIRING CORRECTIVE ACTION (ARCA)

The following ARCA's received in earlier exercises will be re-demonstrated during the Kewaunee 2009 Plume Phase Exercise on June 23.

Issue No: 33-07-6a1-A-07 Kewaunee Power Station Exercise, December 4, 2007.

Criterion 6.a.1 – Monitoring and Decontamination of Evacuees and Emergency Workers and Registration of Evacuees.

Staff at the Algoma Reception Center in Kewaunee County did not recognize that they may have become radiologically contaminated and were not monitored. Since the 2007 exercise, additional training in this area has been given to Reception Center staff.

Issue No: 33-07-5b1-A-08 Kewaunee Power Station Exercise, December 4, 2007.

Issue No: 33-07-5b1-A-09 Kewaunee Power Station Exercises, December 4, 2007.

Criterion 5.b.1 – Emergency Information and Instructions for Public and the Media.

One PIO represented both counties during Media Briefings. Contradictory language regarding the Livestock Advisory and evacuations was given at Media Briefing #3. The language was taken from a prescribed message. The message will be rewritten, so as not contain contradictory language.

EVALUATION AREA 1 – EMERGENCY OPERATIONS MANAGEMENT

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

State of Wisconsin

This is a full-participation plume pathway exercise. Most activities, including decision making and radiological control/dose assessment, will occur at the State Emergency Operations Center (SEOC) and the State Radiological Coordinator (SRC) Room (Room 105), both located at 2400 Wright Street, Madison, Wisconsin. The Joint Information Center (JIC), located at 3060 Voyager Drive, Green Bay, Wisconsin will be staffed by Wisconsin and county personnel. Wisconsin State field sampling teams will collect samples within the 10 mile Emergency Planning Zone (EPZ) in Kewaunee and Manitowoc Counties.

The initial notification will occur via Dial Select at ~ 8:00 a.m. and will be answered by WEM front desk staff. The front desk staff will record the information provided by the caller on the Nuclear Accident Reporting System (NARS) form. The Duty Officer (DO) will be contacted immediately and provide with the NARS form. The DO will use the WEM Standard Operating Procedure for SEOC activation. With the exception of pre-positioned staff, staff from participating state agencies or organizations will be notified using E-Sponder Alerting, with the on-call system (in the WEM DO book) as a back-up, or by using the EOC Alerting list in the Wisconsin Duty Officer Manual. An EOC Roster will be maintained on E-Sponder, the State's Incident Management Program. The State will develop a 24-hour staffing plan that will be provided to the federal evaluator.

Special arrangement regarding staffing area as follows:

- The Forward Operations Center/Mobile Radiological Laboratory (FOC/MRL) will be pre-positioned at the Wisconsin National Guard Armory located at 2225 Sandy Bay Road in Two Rivers, Wisconsin.
- State Field Teams will be pre-positioned at the Best Western Lakefront Hotel, 101 Maritime Drive, Manitowoc, Wisconsin, and be deployed from there to the FOC/MRL at the Site Area Emergency by a phone call from the SRC to the Field Team Coordinator (FTC). The FTC will coordinate field team operations from the FOC/MRL.
- The Emergency Police Services (EPS) Director will be pre-positioned at the State EOC.
- The Wisconsin Emergency Management Regional Directors will be pre-positioned in the vicinity of the Kewaunee and Manitowoc EOCs, and will be notified to report to the County EOC's ~20 minutes after notification of the Alert classification.
- State Joint Information Center (JIC) staff will be pre-positioned in the area and will be notified by the WEM Public Information Officer to report to the JIC when the Alert is declared. They will wait ~30 minutes after notification before

reporting to the JIC. The JIC is located at 3060 Voyager Drive, in Green Bay, Wisconsin. The Public Inquiry Hotline is located at the Dominion Call Center, at 7500 West Broad Street, Richmond, Virginia. The Call Center is staffed on a 24/7 basis, and will be evaluated.

Kewaunee County

Activities will occur both in sequence and out-of-sequence at various sites around Kewaunee County, with the exception of the Reception Center/Congregate Care Center activations. These centers will be activated out-of-sequence at ~6:30 p.m. Monday June 22, 2009. The base of operations will be the Kewaunee County Emergency Operations Center, which is located in the lower level of the Algoma City Hall, 416 Fremont Street, Algoma, Wisconsin. Alert and staff call-up procedures will be followed as outlined in the plan. The 24-hour shift change staffing list can be seen in the EOC. The Officer-in-Charge (OIC) will determine and announce when the EOC is operational and fully staffed. Public Information staff will be pre-positioned in the general area of the JIC and will wait approximately ~20 minutes to mobilize after notification, similar to the State procedures.

Manitowoc County

Most activities will occur in sequence at various sites around Manitowoc County. The base of operations will be the Manitowoc County Emergency Operations Center, which is located in the lower level of the Sheriff's Department, Conference Rooms A-B-C, 1025 South 9th Street, Manitowoc, Wisconsin. Alert and staff call-up procedures will be followed as outlined in the plan using the Joint Dispatch Center (JDC) Emergency Checklist, which also denotes 24 hour shift coverage. Public Information staff will be directed to the JIC after being briefed in the EOC. The OIC or Chief Elected Official will determine and announce when the EOC is operational and fully staffed.

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

State of Wisconsin

The base line criterion has been previously evaluated and will not be demonstrated during this exercise.

Kewaunee and Manitowoc County

The base line criterion has been previously evaluated and will not be demonstrated during this exercise.

Criterion 1.c.1: Direction and Control: *Key personnel with leadership roles for the Offsite Response Organization (ORO) provide direction and control to that part of the overall response effort for which they are responsible.*

State of Wisconsin

The State will demonstrate decision-making capabilities in the SEOC. The State will demonstrate coordination between the SEOC, the JIC, Kewaunee and Manitowoc County

EOC's, the utility, and other appropriate off-site response organizations (ORO's) including field operations.

Kewaunee County

The Kewaunee County EOC will direct and control emergency operations within their county and coordinate decisions and emergency activities with the state, the other risk county (Manitowoc), the JIC, and other appropriate OROs.

Manitowoc County

The Manitowoc County EOC will direct and control emergency operations within their county and coordinate decisions and emergency activities with the state, the other risk county (Kewaunee), the JIC, and other appropriate OROs.

Criterion 1.d.1: Communications Equipment: *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.*

State of Wisconsin

The State of Wisconsin has available and will use several of the following communication systems: Dial Select, commercial telephones, cellular phones, satellite phone, amateur radio, TDD, or facsimile to communicate with other locations. The state will also utilize electronic mail to communicate with others in the State EOC and the JIC, but not as a primary means of communication – traditional phone, fax, and paper systems will be used as primary means of communication. Wisconsin's Incident Management software, E-Sponder, will be used in the EOC. An EOC Activation Roster, Event Logs, and Briefing Forms will be used, however, EOC staff may choose to handwrite their logs and forms. So while the documents produced by E-Sponder will be presented for evaluation, the use of E-Sponder as a communication system will not be. Ham radio operators will also test radio communications with the county EOCs.

Kewaunee County

Kewaunee County will use a variety of communication systems. Dial-Select, commercial telephones, cellular telephones, and fax machines will be used to communicate with the utility and other locations. The PIOs and the JIC will use a laptop computer and an electronic e-mail program for communications with the EOC. Laptops and e-mail will be used as the primary form of messaging. Paper messaging will be used as a backup or when e-mail is not an option. RACES volunteers will demonstrate their back-up communications system in our EOC. Radio operators may also participate at the JIC, based on volunteer availability.

Manitowoc County

Manitowoc County uses a variety of communication systems. Dial-Select, commercial telephones, cellular telephones, and fax machines will be used to communicate with the utility and other locations. Laptops and e-mail will be used as the primary form of messaging. Paper messaging will be used as a backup or when e-mail is not an option. RACES volunteers will demonstrate back-up radio communication from the RACES

radio room in the EOC and at other sites as needed. County staff will not be using E-Sponder.

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

State of Wisconsin

The State will demonstrate the use of equipment, maps and displays to support emergency operations in the SEOC, Room 105 (the SRC Room) and the JIC. The state will use its EOC software, E-Sponder, and GIS.

The state will demonstrate the availability of dosimetry and potassium iodide (KI). Documentation of the KI expiration date (February 2014) is stamped on the KI package, and will be available in the Wisconsin Emergency Management office, located in Room 213, 2400 Wright St., Madison, WI.

Instrument inventory and calibration records will be provided in the Annual Letter of Certification.

Kewaunee County

Kewaunee County will demonstrate their ability to support operations through the use of maps, status boards, and other displays as appropriate. Pre-distribution of dosimetry for staff will occur in two locations: First, out-of-sequence on Monday, June 22, 2009 at the Reception Center located at the Algoma High School, 1715 Division, Algoma, Wisconsin, activities will begin at ~6:30 p.m. The dosimetry kits distributed at the Algoma Reception Center will only contain dosimetry and not KI, since reception center staff will not be entering the EPZ. The second location will be, in-sequence on Tuesday, June 23, 2009 at the County Annex building, 510 Kilbourn, Kewaunee, Wisconsin. These dosimetry kits will contain KI since staff in this group may enter the EPZ as part of their duties. Staff at both locations will be given a briefing on the use of dosimetry and KI if applicable. Documentation regarding the expiration date of the KI will be available for the evaluator in the EOC during the exercise.

Instrument inventory and calibration records are maintained by Kewaunee County and will be available for review by an evaluator in the EOC.

Manitowoc County

Manitowoc County will demonstrate their ability to support operations through the use of maps, status boards and other displays as appropriate. Some county emergency worker dosimetry kits will be pre-distributed and the remainder will be distributed at the Manitowoc County Highway Commission Reception Center, located at 3500 Highway 310, Manitowoc, Wisconsin, during play. The Reception Center will be activated out-of-sequence with the scenario on Tuesday, June 23, 2009. Set-up will begin at ~9:00 am, and the volunteer evacuees will arrive at ~10:30 am. Distribution of dosimeter kits with a briefing for the Sheriff's deputies can be observed in the Sheriff's Department Patrol

Squad Room at 1025 S. 9th Street, Manitowoc, Wisconsin and at the traffic control point for the Highway Commission workers. The traffic control point to be evaluated will be identified by the Highway Commission representative in the EOC and the time will be coordinated with the evaluator. KI for emergency workers is stockpiled in the county's EOC. (For this exercise, the first KI dose in the dosimeter kits will be simulated using M&M's). Reception center workers are not instructed to ingest KI. Dosimeter calibration records and stockpiled KI with expiration date information will be available in EOC.

EVALUATION AREA 2 – PROTECTIVE ACTION DECISION MAKING

Criterion 2.a.1: Emergency Worker Exposure Control: *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.*

State of Wisconsin

The SRC will be notified of the event by the WEM DO and will report to 2400 Wright Street, Room 105, Madison, in sequence. The SRC, based on his/her technical evaluation of the available data, will make recommendations for emergency worker exposure control to the State Field Team Coordinator (FTC) at the FOC/MRL. This includes recommendations for the ingestion of KI that will be made by the SRC to the Kewaunee and Manitowoc County Radiological Officers. Emergency workers, including the field teams, have a dose limit of 3 rem whole body (Deep Dose Equivalent). The turn-back value for emergency workers is 200mR/hr. For an emergency worker who only has access to a DRD, an exposure rate value of 200mR will be used as the turn back value. By procedure, the SRC can authorize a radiation exposure in excess of the administrative limit for emergency workers.

State field team members will simulate taking KI at the direction of the SRC. KI for field team members is maintained with the field team's field kits.

Kewaunee County

Kewaunee County's Radiation Officer (RO) will receive recommendations for the ingestion of KI from the SRC and will make his/her recommendation to the Officer-in-Charge (OIC) of the County. At this point the OIC advises all agencies to ingest KI. The County RO will also evaluate requests from county public safety officials who request an exception to worker exposure limits. The County RO will confer with the SRC for exceptions to exposure limits and make a recommendation to the County OIC. If the scenario does not drive exception to Emergency Worker exposure limits, this evaluation will be accomplished by an interview process.

Manitowoc County

Manitowoc County's Radiation Officer (RO) will receive recommendations for the ingestion of KI from the SRC and will make his/her recommendation to the Officer-in-Charge (OIC) of the County following discussion with the County Public Health

representative in the EOC. At this point the OIC advises all agencies to ingest KI. The County RO will also evaluate requests from county public safety officials who request an exception to worker exposure limits. The County RO will confer with the SRC for exceptions to exposure limits and make a recommendation to the County OIC. If the scenario does not drive exception to Emergency Worker exposure limits, this evaluation will be accomplished by an interview process.

Criterion 2.b.1: Radiological Assessment and Protective Action Recommendations and Decisions: *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 Wisconsin

The SRC staff will evaluate information provided by the licensee on plant conditions and perform independent dose assessment and projections. These assessments and projections are based on plant conditions, field-monitoring data (provided by the State Field Teams through the FOC/MRL), and knowledge of on-site and off-site environmental conditions and monitoring plant conditions electronically via ERDS.

Field monitoring data will be provided via controller inject messages through the field teams to the Field Team Coordinator and/or Field Team Communicator. The SRC will evaluate the data and make a protective action recommendation to the OIC. Generally, early dose assessments performed by state dose assessment personnel will be based upon plant conditions obtained via telephone or facsimile from the affected plant. Later dose assessments will be developed based upon plant conditions and simulated field sampling results.

The State SRC will also use dedicated laptop computers for RASCAL dose assessment and plume modeling. GIS will be used for display of status maps. The SRC will evaluate the data and consider environmental conditions and make a protective action recommendation to the OIC.

Kewaunee County and Manitowoc County

The county will not demonstrate this criterion. It is a State responsibility.

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

State of Wisconsin

The Governor or his/her designee will demonstrate the ability to make appropriate protective action decisions based on recommendations from the OIC and the SRC in the SEOC. As a “home rule” state, the Governor or his/her designee makes protective action recommendations (PARs), but implementation decisions ultimately reside with the chief elected official (or his/her designee) in the county, who may modify PARs based on local

needs or considerations. The OIC, or an Operations designee, will contact the Kewaunee and Manitowoc County Emergency Management Directors and relay the PAR to ensure that the Counties has no events taking place that will prohibit implementation of the PAR. Protective action decisions (PADs) are coordinated between the Kewaunee and Manitowoc County EOCs and with the State EOC to ensure that the counties are able to effectively implement at the designated time.

The State Emergency Operations Plan (EOP) directs that KI is not made available to the general public in Kewaunee and Manitowoc Counties.

Kewaunee County

Kewaunee County's Chief Elected Official or his/her designee will evaluate protective action recommendations from the State EOC and determine if those recommendations are appropriate for the local situation. The decision by county officials to implement state protective action recommendations is coordinated between the State EOC and both risk counties. Decisions regarding the distribution of KI to institutionalized individuals will be made when emergency workers are ordered to ingest KI.

Manitowoc County

Manitowoc County's Chief Elected Official or his/her designee will evaluate protective action recommendations from the State EOC and determine if those recommendations are appropriate for the local situation. The decision by county officials to implement state protective action recommendations is coordinated between the State EOC and both risk counties. Decisions regarding the distribution of KI to institutionalized individuals will be made when emergency workers are ordered to ingest KI. Manitowoc County does not distribute KI to the general public.

Criterion 2.c.1: Protective Action Decision Consideration for the Protection of Special Populations: *Protective action decisions are made, as appropriate, for special population groups.*

State of Wisconsin

Protective Action Decisions for special populations are determined by the counties. If the SRC determines that the situation is deteriorating based upon status information received from the utility and that an evacuation may be recommended, he/she will alert the counties so that they may begin preparing to implement this aspect of their plan. Decisions regarding the distribution of KI to institutionalized populations are a county responsibility.

Kewaunee County

The county will demonstrate the ability and resources to make appropriate protective action decisions. The County RO will receive information from the SRC regarding the protective actions recommended for special populations. The RO will relay that information to the County OIC and appropriate agencies for consideration. All protective action decisions will be made by the Chief Elected Official or his/her designee.

Special populations inside of the EPZ include schools, which are out of session for the summer break, the county jail, day cares, Community Based Residential Facilities, and a nursing home. All special populations are evacuated from the EPZ. A Kewaunee School District Representative will be available for an interview on June 23 at 9:00 am at the superintendents office located at 915 2nd Street in the town of Kewaunee. The jail populations are bused by Erickson Bus Company to a facility outside of the EPZ. In the event the jail population could not be transported out of the EPZ the air handling system would be shut down, thus stop external air from entering the jail.

Manitowoc County

The County RO will present the protective action recommendations regarding KI to the County Executive (or backup), and Health and Human Services representatives for discussion and implementation.

The county plan recommends evacuating schools and day care centers at a Site Area Emergency (SAE). KI is not given to school children in Manitowoc County. The Mishicot School District is within the 10 mile radius of the Kewaunee Power Station. The Manitowoc County OIC will discuss the protective actions with the District Administrator. The Valders School District's buildings will function as the host schools for a Mishicot District evacuation. A Representative from the Valders District will be present for interview with the Mishicot School District representative at 1 p.m. on June 23 at, 660 Washington Street, Mishicot. There are no nursing homes within the Kewaunee Power Station EPZ.

Criterion 2.d.1: Radiological Assessment and Decision-Making for the Ingestion Exposure Pathway: *Radiological consequences for the ingestion pathway are assessed and appropriate protective action decisions are made based on the ORO planning criteria.*

State of Wisconsin

The State will not demonstrate this criterion during this exercise.

Kewaunee and Manitowoc County

Kewaunee and Manitowoc County will not demonstrate this criterion during this exercise.

Criterion 2.e.1: Radiological Assessment and Decision-Making Concerning Relocation, Re-entry, and Return: *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.*

State of Wisconsin

The State will not demonstrate this criterion during this exercise.

Kewaunee and Manitowoc County

Kewaunee and Manitowoc County will not demonstrate this criterion during this exercise.

EVALUATION AREA 3 – PROTECTIVE ACTION IMPLEMENTATION

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

State of Wisconsin

This criterion will be demonstrated at the Forward Operations Center/Mobile Radiological Laboratory (FOC/MRL) by the State Field Team Coordinator (FTC) and State Field Teams (SFTs). The state will also demonstrate the use of dosimetry as a part of the demonstration of Reception Center operations and the response to a medical emergency involving a potentially contaminated evacuee.

The FOC/MRL will be located at the Two Rivers National Guard Armory, 2225 Sandy Bay Road, Two Rivers, Wisconsin. Field team members will receive a radiological exposure control briefing and demonstrate the proper use of Direct-Reading and Thermoluminescent Dosimeters (DRDs and TLDs) to monitor and control their radiation exposure in accordance with plans and procedures. Proper use of survey meters will be demonstrated. Field team members will also receive instructions on turn-back values, and “do not linger” values.

Kewaunee County

Emergency workers will demonstrate the proper use of DRDs and TLDs to monitor and control their exposure to radiation. Emergency workers will follow procedures in their respective plans regarding radiological equipment use and exposure limits and will monitor and record dosimeter readings. Ambulance crews that enter the restricted area will be given a briefing at the Annex or from the Community Service Officer and provided DRD’s and TLD’s.

Kewaunee County emergency workers, Traffic Access and Control Points (TACP) personnel and school bus drivers will have dosimetry distributed at the Annex Building, 510 Kilbourn, Kewaunee, Wisconsin in sequence on June 23, 2009. Reception Center personnel will be issued dosimetry at the Reception Center, out of sequence on June 22, 2009.

Manitowoc County

Emergency workers will demonstrate the proper use of DRDs and TLDs to monitor and control their exposure to radiation. Emergency workers will follow procedures in their dosimeter kit regarding radiological monitoring equipment use and exposure limits and will monitor and record dosimeter readings on the form provided.

Manitowoc County Sheriff's Department deputies assigned to work in the field and Manitowoc County Highway Commission workers assigned to the traffic/access control point will receive dosimeter kits and faux KI. They will be briefed by their shift supervisors on the day of the exercise at two locations: Patrol Squad Room, Sheriff's Department, 1025 S. 9th St. Manitowoc and/or the traffic control point, which will be determined by the scenario. Coast Guard personnel responding in the field would be expected to have their own dosimetry. If they do not, they would be advised to report to the Reception Center to be issued a dosimeter kit and be briefed before reporting to the field.

Criterion 3.b.1: Implementation of KI Decision: *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 Wisconsin

State field monitoring teams and the FOC will demonstrate the availability of KI, the appropriate instructions concerning the proper use of KI, and KI record-keeping. Monitoring team personnel will be instructed on the proper use of KI and potential adverse health effects during the pre-dispatch briefing at the FOC/MRL. The briefing will be presented by the Field Team Coordinator or FOC/MRL Communicator. The SRC, through the Field Team Coordinator, will instruct field teams when to simulate taking KI based on scenario radiological data or incident classification status provided during the course of the exercise. KI is part of the field team kit inventory.

Kewaunee County

Only county emergency workers entering the restricted area will use dosimetry kit contains KI, instructions, and a form for recording KI ingestion. For exercising purposes, a faux KI tablet will be used. Some kits may be pre-distributed. These kits will be issued from and returned to the County Annex Building on 510 Kilbourn Street in Kewaunee, before assuming/completing shift duties. The Annex Nurse will give a briefing to a law enforcement officer, public works personnel assigned to the TACP. The time of the briefing will be determined by the Kewaunee County Emergency Management Director in consultation with the lead Evaluator. Each county emergency worker dosimetry kit distributed from the Annex contains a three day supply of simulated KI. The Kewaunee County EOC will instruct emergency workers, through their supervisor, when they should take the simulated KI.

Manitowoc County

Each county emergency worker dosimetry kit used for the exercise contains one faux dose of KI, instructions and a form for recording KI ingestion and dosimeter readings. Demonstrations of kit distribution and briefings at the Sheriff's Department and TACP were discussed in 3.a.1. School custodial staff The Manitowoc County Health Officer's representative, in consultation with Wisconsin Department of Health Services WI-DHS,

the County's RO and OIC will advise emergency workers, through their respective department supervisors, when they should take the simulated KI.

Prior to take-off the airplane crew is given a briefing on the use of dosimetry and KI.

Criterion 3.c.1: Implementation of Protective Actions for Special Populations: *Protective action decisions are implemented for special population groups within areas subject to protective actions.*

State of Wisconsin

The State will not demonstrate this criterion; it is a county responsibility.

Kewaunee County

Kewaunee County will demonstrate the ability and describe the resources to implement appropriate protective actions for their special population groups. The County's Chief Elected Official or his/her designee will evaluate protective action recommendations from the State EOC and determine whether those recommendations are appropriate for the local situation. The County EOC staff maintains a list of people with special transportation needs and will simulate providing evacuation assistance for these people by contacting transportation providers. The list of people with special transportation needs is available for evaluators to review, but cannot be copied or removed from the county EOC in order to protect confidentiality. The County EOC staff will plan for people with special transportation needs and simulate providing evacuation assistance as driven by the scenario.

No KI is provided to special populations, schools and the jail evacuate their populations. The remaining special populations follow their individual plans.

Kewaunee County will call three of their 12 contacts (i.e. PARA Tran, Medi Van and Erichsen Bus Service).

Manitowoc County

Manitowoc County will demonstrate the ability and describe the resources to implement appropriate protective actions for their special population groups. The County's Chief Elected Official or his/her designee will evaluate protective action recommendations from the State EOC and determine whether those recommendations are appropriate for the local situation. The County EOC staff maintains a list of people with special transportation needs as well as agencies who serve clients with special needs and will simulate providing evacuation assistance for these people by contacting transportation providers. The list of people with special transportation needs is available for evaluators to review, but cannot be copied or removed from the county EOC in order to protect confidentiality. The County EOC staff will plan for people with special transportation needs and simulate providing evacuation assistance as driven by the scenario.

There are no prison/jail populations within the Manitowoc County portion of the EPZ

Manitowoc County will call three of their five contacts (i.e. Brandt Buses, Two Rivers Buses, Maritime Metro Transit).

Criterion 3.c.2: Implementation of Protective Action for Schools: *OROs/school officials decide upon and implement protective actions for schools.*

State of Wisconsin

The State will not demonstrate this criterion; it is a county responsibility.

Kewaunee County

Kewaunee County will simulate evacuation of Kewaunee School District out-of-sequence on the day of the exercise, June 23, 2009, by conducting an interview with key school personnel from the Kewaunee and Luxemburg Casco School Districts (the evacuating and host school districts). The Kewaunee School District Superintendent, the Kewaunee High School principal, a teacher and bus driver from Kewaunee High School will be interviewed at the Kewaunee Superintendents office located at 915 Second Street at 9:00 a.m. A copy of the school emergency operations plan will be available during the interview.

The Principal/designee of the Luxemburg Casco School District will also be interviewed regarding the procedures of the host school at the LC Principals office located at 512 Center Drive, Luxemburg on June 22 at 10:30 am (920-845-2336 ext 401).

Manitowoc County

Manitowoc County will simulate the evacuation of a school and make arrangements for interviews with the Mishicot School Superintendent, a principal, the bus manager and a bus driver and the Valders School Superintendent at the Mishicot School District Superintendent's Office, Mishicot High School, 660 Washington St., Mishicot, Wisconsin, 1:00 pm. A county escort will be provided if requested by the evaluator.

Criterion 3.d.1: Implementation of Traffic and Access Control: *Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access control personnel.*

State of Wisconsin

The State will not demonstrate this criterion; it is a county responsibility.

Kewaunee County

Kewaunee County will demonstrate this criterion in-sequence. A road block will be determined by Law Enforcement and the highway department on the day of the exercise at County Trunk B and Krok Road. County escorts will be provided if request by the evaluator. Law Enforcement is responsible for contacting the Federal Aviation Administration (FAA) and the Railroad (RR) Commission to close air space and restrict train movements. The Kewaunee County Sheriff's Department will call the U.S. Coast Guard in Sturgeon Bay and Manitowoc to keep them informed of the incident in the event that their resources are needed. They would also assist in warning boaters. Coast

Guard personnel responding in the field would be expected to have their own dosimetry. If they do not, they would be advised to report to the Reception Center to be issued a dosimeter kit and be briefed before reporting to the field.

The traffic control access interview will be conducted at the control point. The time and location of the interview will be determined in sequence based upon the scenario by the County Highways representative at the EOC.

Manitowoc County

Manitowoc County will demonstrate this criterion out-of-sequence, County escorts will be provided if needed. The county contacts the Federal Aviation Administration (FAA) and the Railroad (RR) Commission to close air space and restrict train movements. The U.S. Coast Guard Station in Two Rivers, Wisconsin is notified by the Manitowoc County Joint Dispatch Center if an incident occurs at either Point Beach Nuclear Plant or the Kewaunee Power Station. The Chief of Coast Guard or designee is invited to locate a USCG representative with law enforcement personnel in the EOC. The Coast Guard would enforce any perimeter control required on Lake Michigan as dictated by the incident. They would also assist in warning boaters. Coast Guard personnel responding in the field would be expected to have their own dosimetry. If they do not, they would be advised to report to the Reception Center to be issued a dosimeter kit and be briefed before reporting to the field.

A traffic control access interview will be conducted at the Traffic Control Point (TCP). The time and location of the interview will be determined in sequence based upon the scenario by the County Highways representative at the EOC.

Criterion 3.d.2: Impediments to Evacuation are Identified and Resolved: *Impediments to evacuation are identified and resolved.*

State of Wisconsin

The State will not demonstrate this criterion; it is a county responsibility.

Kewaunee County

Kewaunee County will demonstrate in their County EOC the capability to identify and take appropriate actions concerning impediments to evacuation. Actual calls to resources will be made to one contact; all others will be simulated based on the scenario. An impediment will block at least one major evacuation route. The location and timing of the impediment will be provided by Controller Inject.

Manitowoc County

Manitowoc County will demonstrate in their County EOC the capability to identify and take appropriate actions concerning impediments to evacuation. Actual calls to resources will be made to one contact; all others will be simulated based on the scenario. An impediment will block at least one major evacuation route. The location and timing of the impediment will be provided by Controller Inject.

Criterion 3.e.1: Implementation of Ingestion Pathway Decisions: *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.*

State of Wisconsin

The State will not demonstrate this criterion during this exercise.

Kewaunee and Manitowoc County

Kewaunee County and Manitowoc County will not demonstrate this criterion during this exercise.

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

State of Wisconsin

The State will not demonstrate this criterion during this exercise.

Kewaunee County and Manitowoc County

Kewaunee County and Manitowoc County will not demonstrate this criterion during this exercise.

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

State of Wisconsin

The State will not demonstrate this criterion during this exercise.

Kewaunee County and Manitowoc County

Kewaunee County and Manitowoc County will not demonstrate this criterion during this exercise.

EVALUATION AREA 4 – FIELD MEASUREMENT AND ANALYSIS

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

State of Wisconsin

The State will demonstrate the use of survey meters and dosimeters in its field operations by the FOC/MRL and the field teams. State Field Teams (SFTs) will participate in the field monitoring portion of the exercise, with both of the teams being evaluated. The

National Guard Civil Support Team (CST) and Radiological Assistance Program (RAP) teams will participate. The coordination of the CST and RAP teams by state personnel will be evaluated, while the actual performance of the teams will not. The pre-deployment briefing, equipment inventory and operational checks will be evaluated for the two state radiological sampling teams at the FOC/MRL.

State Field Teams will have a count rate meter, and high and low range exposure rate meters. RADeCO H-890C Portable Air Sampler, Marinelli beakers, silver zeolite cartridges and particulate filters will be available to teams for air sampling. ***Silver zeolite cartridges, which do not require purging, are used for iodine air sampling.*** State Field Teams will demonstrate the capability to measure ambient radiation exposure levels, do simulated field iodine cartridge measurements, and take simulated gas, iodine and particulate samples. The Field Team Controller will inject simulated ambient radiation exposure levels and field iodine cartridge measurements. The State Field Teams will demonstrate the capability to communicate field measurements to the Field Team Coordinator at the FOC/MRL.

Kewaunee and Manitowoc County

Kewaunee County and Manitowoc County will not demonstrate this criterion. It is a state responsibility.

Criterion 4.a.2: Plume Phase Field Measurements & Analysis: *Field teams are managed to obtain sufficient information to help characterize the release and to control radiation exposure.*

State of Wisconsin

State Field Teams are directed by the SRC, through the Field Team Coordinator (FTC) in the FOC. The Field Team Coordinator will provide monitoring/sampling direction and exposure control information directly to the teams. The FTC will provide Controller-injected field measurements reported by the State Field Teams to the SRC.

Kewaunee and Manitowoc County

Kewaunee County and Manitowoc County will not demonstrate this criterion. It is a state responsibility.

Criterion 4.a.3: Plume Phase Field Measurements & Analysis: *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.*

State of Wisconsin

Two State Field Teams will demonstrate the capability to measure ambient radiation exposure levels, perform field iodine cartridge measurements, and collect gas, iodine and particulate samples. Once the collected samples have been delivered to the FOC/MRL and inventoried by MRL personnel, evaluation of the two field teams will end.

Once collected, the samples will be delivered to the FOC/MRL and inventoried by MRL personnel. Chain of custody for the samples will be evaluated through interview of MRL staff, inspection of completed chain-of-custody documentation, and review of procedures. Evaluation of the two State Field Teams selected will end when the collected samples have been delivered to the FOC/MRL and inventoried by MRL personnel.

Kewaunee and Manitowoc County

Kewaunee County and Manitowoc County will not demonstrate this criterion. It is a state responsibility.

Criterion 4.b.1: Post Plume Phase Field Measurements and Sampling:

These criteria will not be demonstrated.

Criterion 4.c.1: Laboratory Operations:

This criterion will not be demonstrated.

EVALUATION AREA 5 – EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

Criterion 5.a.1: Activation of the Prompt Alert and Notification System: *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 a minimum:*

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

State of Wisconsin

After the State's Protective Action Recommendation (PAR) has been concurred upon by the counties, and approved by the Governor, it becomes a Protective Action Decision (PAD). The state and counties then select the appropriate pre-scripted EAS and Special News Broadcast messages for the PAD. The counties review the message and content and approve it "as is," or modify the message to reflect local weather, road construction, or other conditions prior to its release. Once the message of the text is agreed upon by the state and the counties (the concurrence is done by telephone), the counties will broadcast the message. The counties follow their procedures to coordinate the time for sounding the sirens and broadcasting of the EAS message by the EAS stations.

Kewaunee County

Kewaunee County will growl its sirens in accordance with procedures. The county will call WSRG - 97.7 FM located at 1009 Egg Harbor Road, Sturgeon Bay (in Door County), Wisconsin. WSRG does operate 24\7, but it is not manned between the hours of 8pm to 4:30am. The county has a plan to contact WSRG's on-call person at the Alert, who would then go to the station. The County will then transmit a pre-scripted EAS Message and Special News Broadcast Message to the station. The station will simulate the broadcast of both messages. Kewaunee County will fax a hard copy of the message to WSRG. Kewaunee County will demonstrate this procedure once for evaluation purposes. Siren testing data is submitted to FEMA annually with the Annual Letter of Certification packet. WSRG-Radio Station will have staff available for interview during the exercise. A county escort will be available upon request.

Manitowoc County

Manitowoc County will growl its sirens. The county will transmit a pre-scripted EAS message and Special News Broadcast to WCUB Radio, 1915 Mirro Drive, Manitowoc, Wisconsin. The station will simulate the broadcast of both messages. The station has 24-hour capability. Siren testing data is submitted to FEMA annually with the Annual Letter of Certification packet. WCUB -Radio will have staff available for evaluator interview on Tuesday, June 23. A county escort will be available if needed.

An aircraft mounted public address system will be used to provide back-up to the primary warning system, if weather permits. It is also used to warn boaters on Lake Michigan. The aircraft mounted public address system will be demonstrated unless adverse weather conditions exist. The staff operating the aircraft will be available for evaluator interview on Tuesday, June 23, at the Manitowoc County Airport, 1815 Freedom Way, Manitowoc, Wisconsin.

Criterion 5.a.2: Activation of the Prompt Alert and Notification System (Fast Breaking):

Activities associated with primary alerting and notification of the public are completed within 15 minutes of verified notification from the utility of an emergency situation requiring urgent action (fast breaking situation). The initial instructional message to the public must include:

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

In addition, the ORO must demonstrate the capability to contact, in a timely manner, an authorized offsite decision maker relative to the nature and the severity of the event, in accordance with plans and procedures.

This criterion will not be demonstrated in this exercise.

Criterion 5.a.3: Activation of the Prompt Alert and Notification System (Exception Areas):

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 a the primary alert and notification system.

State of Wisconsin

This criterion will not be demonstrated since it is a county responsibility.

Kewaunee County

There is only one exception area is located within the Kewaunee Power Station's 10 mile EPZ. Primary route alerting will be conducted in-sequence, as stated in the county plan. The starting point, route, and time will be coordinated between the controller and evaluator.

Manitowoc County

There are no FEMA-approved exception areas in Manitowoc County within the Kewaunee Plant's 10 mile EPZ. If an unforeseen problem occurs with the siren system, the county will demonstrate back-up alerting procedures unless hazardous weather or road conditions prevent safe demonstration.

Criterion 5.b.1: Emergency Information and Instructions for Public and the Media: *OROs provide accurate emergency information and instructions to the public and news in a timely manner.*

State of Wisconsin

The state will demonstrate the formulation and dissemination of accurate information and instructions including pre-scripted EAS and Special News Broadcast messages to the JIC. The State of Wisconsin PIOs in the JIC will coordinate with the State EOC and PIOs from the counties, and the utility to ensure the media is briefed in a clear, accurate, and timely manner. Procedures for early notification of the media will be demonstrated in the State EOC prior to the activation of the JIC. Public inquiry calls will be handled by the Dominion Call Center in Virginia, as stated in the State of Wisconsin/Dominion Letter of Agreement. The Call Center will be staffed by Dominion Call Center personnel.

The Ingestion Brochures are printed by the state and distributed to the counties within 24 hours of the declaration of a Site Area Emergency. Brochures will not be printed, but a sample brochure will be available for the federal evaluator and an Operations Officer will simulate the procedure of ordering the brochures to be printed and distributed by discussion with an evaluator.

Kewaunee County

Kewaunee County will have a Public Information Officer (PIO) present at the JIC who will work with the state, utility and other county PIOs to ensure that their county's interests and concerns are represented in the media briefings. The counties use the utility

phone banks, which are located at the Dominion Call Center, 7500 West Broad Street, Richmond, Virginia, for rumor control. All media briefings will be done at the JIC in Green Bay. The Kewaunee County PIOs assigned to the JIC will work closely with the PIOs at the county EOC to make sure media releases are accurate and coordinated.

One ARCA was issued to the Kewaunee County regarding contradictory language contained in the Livestock Advisory given out at a Media Briefing. Issue No: 33-07-5b1-A-08 and will be redemonstrated during this exercise.

Manitowoc County

Manitowoc County will have a Public Information Officer (PIO) present at the JIC who will work with the state, utility and other county PIOs to ensure that their county's interests and concerns are represented in the media briefings. The counties use the utility phone banks, which are located at the Dominion Call Center, 7500 West Broad Street, Richmond, Virginia, for rumor control. All media briefings will be done at the JIC in Green Bay. The Manitowoc County PIOs assigned to the JIC will work closely with the PIOs at the county EOC to make sure media releases are accurate and coordinated.

One ARCA was issued to the Manitowoc County regarding contradictory language contained in the Livestock Advisory given out at a Media Briefing. Issue No: 33-07-5b1-A-09 and will be redemonstrated during this exercise.

EVALUATION AREA 6 – SUPPORT OPERATION/FACILITIES

Criterion 6.a.1: Monitoring and Decontamination of Evacuees and Emergency Workers and Registration of Evacuees: *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 Wisconsin

The State of Wisconsin will demonstrate the adequacy of procedures, facilities, equipment and personnel for radiological monitoring and decontamination. Health monitoring teams will demonstrate radiological monitoring and decontamination of evacuees at reception centers in accordance with the applicable County reception center procedures. Both counties will set up and operate three monitoring stations (i.e. two portal monitors and one hand monitor). The health teams do not use calibrated check sources. The instruments are calibrated annually by a certified calibration facility.

The health monitoring teams will include personnel from the WI-DHS-RPS and individuals from the counties who have received training as Auxiliary Health Monitors. The personnel from the county will work under the supervision of WI-DHS-RPS staff and will be evaluated as a part of the State of Wisconsin's response.

Once each reception center is operational and monitors have surveyed several evacuees to establish flow, at least six evacuees will be monitored and registered with one evacuee

requiring decontamination. Two evacuee vehicles will be monitored, one of which will require decontamination. Staff will also demonstrate the monitoring of at least one emergency worker, who will require decontamination.

Reception center demonstrations for this criterion are a County responsibility and will be held out of sequence in Kewaunee County on Monday evening, June 22, 2009 beginning at ~6:30 p.m. In Manitowoc County, the Reception Center demonstration will be held out of sequence on Tuesday, June 23, 2009 at ~ 9:00 a.m.

One ARCA was issued to the state regarding Reception Center staff. Staff at the Algoma Reception Center in Kewaunee County did not recognize that they may have become radiologically contaminated and were not monitored. Since the December 4, 2007 Kewaunee exercise, additional training in this area has been given to Reception Center staff. Issue No: 33-07-6a1-A-07 will be redemonstrated during this exercise.

Kewaunee County

Kewaunee County will demonstrate this criterion out of sequence on June 22, 2009 beginning at 6:30 p.m. at the Algoma High School, 1715 Division, Algoma, Wisconsin. Kewaunee County, with assistance from the American Red Cross, is responsible for registering evacuees and assigning them to appropriate congregate care facilities.

Manitowoc County

Manitowoc County will demonstrate this criterion by opening a congregate care center following the reception center demonstration at the County Highway Commission on Tuesday, June 23, 2009. The congregate care center will be located at Roncalli High School, 2000 Mirro Drive, Manitowoc. Evacuees will be bused to High School. Evacuees are volunteers.

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

State of Wisconsin

Health monitoring teams will demonstrate this criterion out of sequence, at ~6:30 p.m. on Monday night, June 22, 2009, at the Kewaunee Reception Center (Algoma High School), 1715 Division, Algoma, Wisconsin, and out-of-sequence on the day of the exercise, June 23, 2009, at the Manitowoc County Reception Center (County Highway Commission), 3500 Highway 310, Manitowoc, Wisconsin at approximately 8:00 a.m. Reception Center personnel will demonstrate the monitoring of one emergency vehicle, which will require decontamination.

Kewaunee County and Manitowoc County

The counties will not demonstrate this criterion, since it is a state responsibility.

Criterion 6.c.1: Temporary Care of Evacuees: *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.*

State of Wisconsin

The state will not demonstrate this criterion, it is a county responsibility.

Kewaunee County

Kewaunee County will demonstrate this criterion out of sequence by opening a congregate care center following the reception center demonstration at approximately 7:00 p.m. on June 22, 2009. The congregate care center will be set up at St. Paul's Lutheran School 1115 Division Street, Algoma. The Red Cross will bring inventory lists of equipment and will operate in accordance with their procedures. At least one evacuee will be processed through the congregate care center. A Red Cross representative will be available to the federal evaluator to answer questions about the congregate care center.

Manitowoc County

Manitowoc County will demonstrate this criterion by opening a congregate care center following the reception center demonstration at the County Highway Commission on June 22, 2009. The congregate care center will be located at Roncalli High School, 2000 Mirro Drive, Manitowoc, Wisconsin. Evaluators will be provided an escort if needed (via school bus). Evacuees will be volunteers.

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

State of Wisconsin

The MS-1 hospital drill will be held out-of-sequence on the day of the exercise (June 23, 2009) at the Holy Family Memorial Hospital, 2300 Western Avenue, Manitowoc, Wisconsin. The hospital portion of the drill will be a continuation of the Manitowoc County ambulance drill. Set-up for the drill will commence at ~8:00 a.m. at the Manitowoc Reception Center. The transportation portion of the drill will begin at ~8:30 a.m. and should transition to the hospital portion by ~9:15 a.m. The hospital will demonstrate setting up the Radiological Emergency area, providing appropriate medical care to the patient, and monitoring and decontamination of the patient.

Kewaunee County

The transportation section of the drill will be demonstrated out of sequence beginning at 6:30 p.m. at the Kewaunee County Reception Center (Algoma High School, 1715 Division Street) on June 22, 2009 during the Reception Center drill. Algoma Rescue Squad personnel will demonstrate the packaging and preparation for transport of a potentially contaminated medical victim. Ambulance personnel will make a report to

Aurora BayCare Medical Center, Green Bay. Actual transport to the hospital will be simulated, and evaluation will be by interview. The drill will be terminated following the report to the hospital by the EMS personnel.

Manitowoc County

The transportation section of the drill will be demonstrated out-of-sequence in coordination with the monitoring demonstration at the Manitowoc County Reception Center (County Highway Commission) on June 23, 2009. Manitowoc Fire Department EMS personnel will demonstrate the packaging and preparation for transport of a potentially contaminated medical victim to Holy Family Memorial Medical Center, 2300 Western Avenue, Manitowoc. The ambulance will also demonstrate communication with the hospital per its SOP.

Monitoring sick or injured individuals for contamination is not normally done at the reception center or at an incident scene in the field, since a full survey is always required at the hospital. Therefore, ambulance crews are not issued survey instruments, but will be issued TLDs and DRDs in accordance with the plan.

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 OROs in the Kewaunee Power Station REP Full Participation Plume Exposure Pathway Exercise on June 23, 2009.

This exercise scenario was submitted by the State of Wisconsin and Dominion Energy Kewaunee, Inc., and approved by DHS/FEMA Region V on June 10, 2009.

During the exercise, controllers from the State of Wisconsin and Dominion Energy Kewaunee, Inc., provided "inject messages," containing system/device/process response/result information based on scenario events and/or relevant data to those persons or locations who request the data and would normally receive the information in actual event. These inject messages were the method used for responding to actions taken by OROs without leading the demonstration.

Off-Site Timeline

Kewaunee Power Station
Full-Scale Plume Exercise

Scheduled Starting Times

Monday, June 22, 2009

Time	Event
~10:30 am	Kewaunee School Interview (Host School) The interview will be with a Luxemburg Casco School District Principal, office located at 512 Center Drive, Luxemburg (920-845-2336 ext 401)
~2:00 pm	Pre-exercise Briefing @ Holiday Inn, I-43 and Highway 151, Manitowoc, WI
~ 6:30 pm	Kewaunee County Reception Center Demonstration Location: Algoma High School, 1715 Division Street, Algoma, WI
~7:00 pm	Kewaunee Red Cross Interview Location: Algoma High School, 1715 Division Street, Algoma, WI

Tuesday, June 23, 2009

Time	Event
~0730	Start of Full Scale Plume Exercise
~0801	ALERT is declared by KPS, based upon EAL RA1.1
~0816	<p>ALERT notification is made by KPS to Wisconsin Duty Officer, Kewaunee and Manitowoc County Emergency Management Directors.</p> <ol style="list-style-type: none"> 1. DO notifies SRC of ALERT status. 2. The SRC calls the utility back to confirm information on NARS form and gets any additional information that may be available. 3. The WEM administrator is notified and in turn, notifies the Adjutant General and the Governor's Office. 4. The DO notifies the Kewaunee and Manitowoc Sheriffs Departments, WEM Regional Director, and WEM Public Information Officer. 5. The SRC updates the WEM Senior Duty Officer on the plant status. Per the SOP, the Emergency Operations Center (EOC) is automatically activated, if not already done.

Time	Event
~0816	<p>ALERT notification is made by KPS to Wisconsin Duty Officer, Kewaunee and Manitowoc County Emergency Management Directors.</p> <ol style="list-style-type: none"> 6. SDO instructs the DO to begin notifying appropriate state agencies and volunteer organizations. 7. DO notifies the appropriate WEM Regional Director and instructs him/her to report to the Kewaunee EOC. A second WEM Regional Director is directed to report to the Manitowoc EOC. 8. DO notifies FEMA. 9. DO reports to the EOC <ol style="list-style-type: none"> a. EOC security is established b. E-Sponder event site is created; position manuals are distributed. c. SRC room is set-up. d. Communications with the utility, Kewaunee and Manitowoc County EOC'S are established. 10. Kewaunee and Manitowoc County EOCs are activated. 11. Joint Information Center (JIC) is activated. <ol style="list-style-type: none"> a. Notification to State and County Public Information Officers (PIOs) are made. 12. Reception Centers/Congregate Care Centers are put on stand-by. 13. Counties broadcast "First Notice" advisory. 14. Ingestion Counties are notified of the ALERT classification. (Simulated) 15. SRC will decide whether to put mobile lab and field teams on standby or dispatch to the field (scenario dependent).
~0846	State PIO and staff report to the JIC.

Time	Event
~1000	<p><u>SITE AREA EMERGENCY</u> is declared by KPS based upon EAL RS1.1 (Aux building SPINGs indicate >1.0 E+4 CPM), or if a dose assessment is available (>100 mR TEDE or >500 mR CDE at the site boundary) EAL RS1.2</p>
~1015	<p>KPS notifies the state and counties. The following actions will be taken following notification of the Site Area Emergency.</p> <ol style="list-style-type: none"> 1. Reception Centers and Congregate Care Centers are activated. <ol style="list-style-type: none"> a. Note: Kewaunee County demonstrated out of sequence on June 22 at ~6:30 pm at Algoma High School, 1715 Division St. Algoma, WI. b. Note: Manitowoc County demonstration out of sequence on June 23 at ~9:00 am at Manitowoc County Highway Commission, 3500 Highway 310, Manitowoc, WI. 2. Public schools in Kewaunee County are evacuated to Luxemburg Casco School Districts (Simulated/school out of session). <ol style="list-style-type: none"> a. Note: Host school (Luxemburg Casco) interview will occur out of sequence via phone interview on June 22 at 10:30 am (920-845-2336 ext 401) b. Note: Evacuee interview will occur out of sequence on June 23 at ~ 9:00 at Kewaunee School District Superintendents Office, 915 2nd Street, Kewaunee, WI 3. All daycares in EPZ are evacuated to the United Methodist Church in Algoma. (Manitowoc Co. has no daycares in the EPZ) 4. Livestock Advisory is issued to all farmers in the EPZ. 5. Ingestion brochures are ordered to be printed. 6. SRC will dispatch field teams and the mobile lab. 7. The SRC will request the assistance of the 54th Civil Support Team (CST) (Simulated).

Time	Event
~1100	<u>GENERAL EMERGENCY</u> is declared by KPS based upon FG1. (Loss of any two barriers and loss or potential loss of the third.)
~1115	<p>Notification is made to State and County. Plant recommends EVACUATION of all sectors out to 2 miles and sectors MNP out to 5 miles. The states default evacuation PAR is 5 miles, 360 degrees. Affected sub-areas: 5. Wind speed is 7.3 mph from 83 degrees.</p> <p>SRC will quickly evaluate the utility recommendation and will then brief the OIC. The OIC/Ops staff will contact the counties with the recommendation and obtain concurrence.</p> <p>Once the PAR has been approved by the governor and becomes a PAD, the appropriate EAS message will be selected, and the counties will determine a time to sound the sirens and broadcast the EAS message. (KEW Evac 1)</p> <ol style="list-style-type: none"> 1. Exception area route alerting will be demonstrated. <ol style="list-style-type: none"> a. Note: Primary route alerting will be conducted in-sequence. The starting point, route, and time will be coordinated between the controller and evaluator. 2. Traffic control/access points are activated. 3. Media briefings continue until termination. 4. A State of Emergency declaration is requested. 5. Federal assistance is requested.
1210	Increase in release causes an increase in the radiological release, KPS expands the PAR
1230	<p>Notification of 2nd PAR is made to the State and County. Utility recommends EVACUATION of all sectors out to 2 miles and sectors MNP out to 10 miles. The state default is all sectors out to 5 miles, affected sub-areas are 5, 10SW, and 10W. Wind speed remains at 7.3 mph from 83 degrees.</p> <ol style="list-style-type: none"> 1. All EOC staff are notified of status change. 2. Second PAR is assessed by the SRC and discussed with the OIC. <p>Once the PAR has been approved by the governor and becomes a PAD, the appropriate EAS message will be selected, and the counties will determine a time to sound the sirens and broadcast the EAS message. (KEW Evac 5)</p>
~1330	Utility will terminate exercise. State, county and JIC may continue play until all objectives have been met.

Friday, June 26, 2009

Time	Event
~1000	Participants' Meeting at Kewaunee County EOC
~1100	Public/Media Briefing at Kewaunee County EOC

2009 RADIOLOGICAL MEDICAL DRILL SCENARIO

MANITOWOC COUNTY

MANITOWOC FIRE DEPARTMENT

HOLY FAMILY MEMORIAL MEDICAL CENTER

I. PROPOSED SCHEDULE

Date: June 23, 2009
Time: Between 9 a.m. and 12 p.m.
Start Location: Manitowoc County Highway Department
3500 Highway 310
Manitowoc, WI

End Location: Holy Family Memorial Medical Center
2300 Western Avenue
Manitowoc, WI 54221

Injury/Illness: Open fracture on right leg

II. PURPOSE

This simulated radiation medical emergency is being conducted to exercise the emergency medical response in Manitowoc County. The basic objective is to assess the ability of the pre-hospital and hospital emergency medical service to handle a contaminated and injured patient.

III. OBJECTIVES OF THE DRILL

Ambulance Crew:

Terminal Objective

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

Demonstration Objectives

To accomplish the terminal objective, drill participants will adequately:

- Determine the nature and extent of external radiological contamination of a contaminated injured individual.
- Implement appropriate contamination control measures during preparation and transport of individuals from the accident site.

- Determine the identity of the medical facility to which the individual will be transported and transport the individual without undue delay.
- Demonstrate the capability to maintain timely and accurate communications with the receiving medical facility.
- Demonstrate the capability to follow policies, implement procedures, and use equipment/facilities as delineated in the applicable emergency response plan.

Medical Facility:

Terminal Objective

Demonstrate the adequacy of the equipment, procedures, supplies, and personnel of medical facilities responsible for treatment of contaminated, injured, or exposed individuals.

Demonstration Objectives

To accomplish the terminal objective, drill participants will adequately:

- Demonstrate the timely availability of appropriate medical facility staff.
- Demonstrate the preparation of the receiving area for a contaminated individual and implement appropriate contamination control measures.
- Determine, by both survey and bioassay sample, the nature and extent of radiological contamination of a contaminated injured individual and demonstrate proper decontamination.
- Implement appropriate contamination control measures during and after treatment of a contaminated individual.
- Demonstrate the capability to follow policies, implement procedures, and use equipment/facilities as delineated in the applicable emergency response plan.

IV. NARRATIVE SCENARIO

This simulated radiation accident begins as a member of the general population arrives at the Manitowoc Reception Center as a result of a simulated radiological release from the Kewaunee Power Station. This individual has been driven to the center as recommended by emergency messages delivered via the media. While exiting the house, the individual fell down his porch steps and fractured his right leg. The individual landed on his side and felt severe pain in his lower right leg. The individual was driven to the reception center. The personnel at this facility initiate action to medically evaluate the patient, request assistance from other workers, and call for an ambulance.

Medical personnel from the Manitowoc Fire Department are requested to attend to the person. The individual is given supportive medical care. The ambulance arrives and initial advisement is that the individual is injured (fractured lower right leg) and is or may be radiologically contaminated. Holy Family Memorial Medical Center is notified, prepares the Radiation Emergency Area (REA), and notifies the appropriate staff according to procedures. The ambulance crew continues patient care and transports the patient to Holy Family Memorial Medical Center.

The hospital emergency staff meets the ambulance upon arrival. An initial report is received and the patient is transferred to the REA. The hospital staff evaluates the patient and initiates appropriate treatment. The hospital radiation safety personnel perform a radiological survey of the patient. Bioassay samples are taken from the wound area and intact skin areas. Decontamination efforts are performed until surveys indicate background readings on previously contaminated areas.

The patient is surveyed prior to transfer out of the REA. Appropriate exit procedures for the patient and attending personnel are performed. Surveys of the ambulance crew and vehicle are performed prior to releasing the crew and vehicle.

V. SCENARIO

THIS IS A DRILL

DO NOT initiate actions affecting normal operations

Note: Ambulance and hospital staff DRDs read <1 mR throughout the drill

<u>Scenario Phase</u>	<u>Controller Message</u>
Discovery of patient	Medical Conditions Conscious level: alert/oriented Respiration: 24 Pulse: 135 Blood pressure: 152/82 Skin: warm/dry/normal color Pupils: equal/reactive to light Other: open fracture to right lower leg (tibia/fibula)/ minor bleeding/ patient experiencing great pain
=====	
EMS treatment	Medical Conditions Conscious level: unchanged Respiration: 24 Pulse: 98 Blood pressure: 148/82 Skin: unchanged Pupils: unchanged Other: unchanged
transport)	Radiological Conditions (if surveyed prior to Victim's clothing: 2000 cpm Fracture site: 2000 cpm Victim's palms: 2000 cpm
=====	
EMS transport	Medical Conditions Conscious level: unchanged Respiration: 18 Pulse: 84 Blood pressure: 138/78 Skin: unchanged Pupils: unchanged Other: unchanged

THIS IS A DRILL

<u>Scenario Phase</u>	<u>Controller Message</u>
Initial hospital evaluation	Medical Conditions Conscious level: unchanged Respiration: 16 Pulse: 80 Blood pressure: 136/74 Skin: unchanged Pupils: unchanged Other: unchanged Radiological Conditions Victim's clothing: 2000 cpm Fracture site: 2000 cpm Victim's palms: 2000 cpm =====
After first decontamination	Radiological Conditions Fracture site: 500 cpm Victim's palms: 1000 cpm =====
After second decontamination	Radiological Conditions All areas: background =====
Post medical treatment	Medical Conditions Conscious level: unchanged Respiration: 14 Pulse: 74 Blood pressure: 130/74 Skin: unchanged Pupils: unchanged Other: X-ray • C-spine - negative • Fracture to right distal tibia/fibula
Termination	Termination message issued when authorized by Exercise Manager

END OF DRILL

RECEPTION CENTER DRILL SCENARIO

MANITOWOC COUNTY

MANITOWOC RECEPTION CENTER

I. PROPOSED SCHEDULE

Date: June 23, 2009
Time: ~8:30 am - ~12:30 pm
Location: Manitowoc County Highway Department
3500 Highway 310
Manitowoc, WI.

II. PURPOSE

This simulated radiological emergency is being conducted to exercise the setup and operation of the reception center in Manitowoc County. The basic objective is to assess the ability of county and state personnel to setup and operate Manitowoc County Reception Center in response to a radiological incident at the Kewaunee Power Station.

III. OBJECTIVES OF THE DRILL

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

IV. EXTENT OF PLAY

Manitowoc County and the State of Wisconsin will demonstrate these objectives between ~8:30 am through ~12:30 pm on June 23, 2009, at Manitowoc County Highway Department Building in Manitowoc. Manitowoc County is responsible for registering evacuees and assigning them to appropriate congregate care facilities. The state is responsible for directing the radiological monitoring and decontamination portions of this objective.

State health monitoring teams will demonstrate radiological monitoring and decontamination of evacuees, emergency workers, and vehicles in accordance with the procedures set forth in the county's reception center plan, the State EOP, and the DHFS-RPS *Nuclear Incident Response Plan*. Health monitoring teams will include personnel from the Department of Health and Family Services Radiation Protection Section, the University of

Wisconsin Safety Department, and individuals from the county who have received training as Auxiliary Health Monitors. Health monitoring personnel from the county will work under the supervision of DHFS-RPS staff, and should be evaluated as part of the State of Wisconsin's response.

Once the reception center is operational and monitors have surveyed several evacuees to establish flow, at least six evacuees will be monitored and registered for evaluation purposes, with one evacuee requiring decontamination. At least two evacuee vehicles will be monitored with one vehicle requiring decontamination.

Following demonstration of monitoring and decontamination of evacuees and their vehicles, at least one emergency worker will be monitored and require decontamination. At least one emergency worker vehicle will be monitored and require decontamination.

V. NARRATIVE SCENARIO

Activation of the Manitowoc Reception Center will commence at approximately 8:30 am, Tuesday, June 23rd, in response to notification that a radiological incident has occurred at the Kewaunee Power Station.

Once the center is operational, processing of evacuees will commence. At least six evacuees will be monitored. Contamination at levels greater than 100 cpm above background will be detected on one evacuee, who will be sent to the decontamination area for decontamination. All evacuees will be registered in accordance with reception center procedures. One emergency worker will also be monitored and will require decontamination.

Two evacuee vehicles will be monitored with one having contamination levels greater than 100 cpm above background detected on the wheel wells. This vehicle will be directed to the vehicle decontamination area for decontamination. One emergency worker vehicle will be monitored and require decontamination.

Section VI contains the controller data for contamination levels.

VI. SCENARIO

THIS IS A DRILL

<u>Scenario Phase</u>	<u>Controller Message/Notes</u>
Evacuee monitoring	Sixth evacuee will be contaminated Contamination levels - Left palm 250 cpm >bg - Right palm 300 cpm >bg - Left forearm 250 cpm >bg =====
Evacuee decontamination	First decontamination lowers contamination levels to less than 100 cpm above background =====
Evacuee vehicle monitoring	Second vehicle will be contaminated Contamination levels - Wheel wells 900 cpm >bg =====
Evacuee vehicle decontamination	First decontamination lowers contamination levels to less than 100 cpm above background =====
Emergency worker Monitoring	- Seat of pants 700 cpm >bg - Both palms 1000 cpm >bg - Shoes 2000 cpm >bg =====
Emergency worker to decontamination	First decontamination lowers contamination levels less than 100 cpm above background =====
Emergency vehicle monitoring	- Wheel wells 1800 cpm >bg - Rear end 1200 cpm >bg =====
Emergency vehicle to decontamination	First decontamination lowers contamination levels less than 100 cpm >bg

END OF DRILL

RADIOLOGICAL MEDICAL DRILL SCENARIO

KEWAUNEE COUNTY

ALGOMA RESCUE SQUAD

I. PROPOSED SCHEDULE

Date: June 22, 2009
Time: Between 6:00 pm and 9:00 pm
Location: Algoma High School (Reception Center)
1715 Division Street
Algoma, WI
Injury/Illness: Open fracture on right leg

II. PURPOSE

This simulated radiation medical emergency is being conducted to exercise the emergency medical response in Kewaunee County. The basic objective is to assess the ability of the pre-hospital medical service to handle a contaminated and injured patient.

III. OBJECTIVES OF THE DRILL

Terminal Objective

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

Demonstration Objectives

To accomplish the terminal objective, drill participants will adequately:

- Implement appropriate contamination control measures during preparation and transport of individuals from the accident site.
- Determine the identity of the medical facility to which the individual will be transported and transport the individual without undue delay.
- Demonstrate the capability to maintain timely and accurate communications with the receiving medical facility.
- Demonstrate the capability to follow policies, implement procedures, and use equipment/facilities as delineated in the applicable emergency response plan.

IV. NARRATIVE SCENARIO

This simulated radiation accident begins as a member of the general population arrives at the Algoma Reception Center as a result of a simulated radiological release from the Kewaunee Power Station. This individual has been driven to the center as recommended by emergency messages delivered via the media. While exiting the house, the individual fell down his porch steps and fractured his right leg. The individual landed on his side and felt severe pain in his lower right leg. The individual was driven to the reception center. The personnel at this facility initiate action to medically evaluate the patient, request assistance from other workers, and call for an ambulance.

At the reception center, the ambulance crew is advised that the victim has driven through the radioactive plume and may be radiologically contaminated. Notification of the designated receiving hospital is simulated.

The ambulance crew treats the victim, implements contamination control measures, and loads the individual into the ambulance for transport to the hospital. Transport will be simulated and drill may be terminated when victim is loaded **and** the notification to Aurora BayCare Medical Center has been completed.

V. SCENARIO

THIS IS A DRILL

DO NOT initiate actions affecting normal operations

Note: Ambulance and hospital staff DRDs read <1 mR throughout the drill

<u>Scenario Phase</u>	<u>Controller Message</u>
Discovery of patient	Medical Conditions Conscious level: alert/oriented Respiration: 24 Pulse: 135 Blood pressure: 152/82 Skin: warm/dry/normal color Pupils: equal/reactive to light Other: open fracture to right lower leg (tibia/fibula)/ minor bleeding/ patient experiencing great pain
=====	
EMS treatment	Medical Conditions Conscious level: unchanged Respiration: 24 Pulse: 98 Blood pressure: 148/82 Skin: unchanged Pupils: unchanged Other: unchanged
transport)	Radiological Conditions (if surveyed prior to Victim's clothing: 2000 cpm Fracture site: 2000 cpm Victim's palms: 2000 cpm
=====	
EMS transport	Medical Conditions Conscious level: unchanged Respiration: 18 Pulse: 84 Blood pressure: 138/78 Skin: unchanged Pupils: unchanged Other: unchanged

END OF DRILL
RECEPTION CENTER DRILL SCENARIO

KEWAUNEE COUNTY

ALGOMA RECEPTION CENTER

I. PROPOSED SCHEDULE

Date: June 22, 2009
Time: 6:00 pm
Location: Algoma High School
1715 Division Street
Algoma, WI

II. PURPOSE

This simulated radiological emergency is being conducted to exercise the setup and operation of the reception center in Kewaunee County. The basic objective is to assess the ability of county and state personnel to setup and operate Algoma Reception Center in response to a radiological incident at Kewaunee Power Station.

III. OBJECTIVES OF THE DRILL

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

IV. EXTENT OF PLAY

Kewaunee County and the State of Wisconsin will demonstrate these objectives between 6:00 pm and 9:00 pm on June 22, 2009, at Algoma High School in Algoma. Kewaunee County is responsible for registering evacuees and assigning them to appropriate congregate care facilities. The state is responsible for directing the radiological monitoring and decontamination portions of this objective.

State health monitoring teams will demonstrate radiological monitoring and decontamination of evacuees, emergency workers, and vehicles in accordance with the procedures set forth in the county reception center plan and the WI DHFS-RPS *Nuclear Incident Response Plan*. Health monitoring teams will include personnel from the Department of Health and Family Services Radiation Protection Section, the University of Wisconsin Safety Department, and individuals from the county who have received training as Auxiliary Health Monitors. Health monitoring personnel from the county will work under the supervision of DHFS-RPS staff, and should be evaluated as part of the State of Wisconsin's response.

Once the reception center is operational and monitors have surveyed several evacuees to establish flow, at least six evacuees will be monitored and registered for evaluation purposes, with one evacuee requiring decontamination. At least two evacuee vehicles will be monitored with one vehicle requiring decontamination.

Following demonstration of monitoring and decontamination of evacuees and their vehicles, one emergency worker will be monitored and require decontamination. One emergency worker vehicle will be monitored and require decontamination.

V. NARRATIVE SCENARIO

Activation of the Algoma Reception Center will commence at approximately 6:00 pm, Monday, June 22nd, in response to notification that a radiological incident has occurred at the Kewaunee Power Station.

Once the center is operational, processing of evacuees will commence. At least six evacuees will be monitored. Contamination at levels greater than 100 cpm above background will be detected on one evacuee, who will be sent to the decontamination area for decontamination. All evacuees will be registered in accordance with reception center procedures. One worker will also be monitored and will require decontamination.

Two evacuee vehicles will be monitored with one having contamination levels greater than 100 cpm above background detected on the wheel wells. This vehicle will be directed to the vehicle decontamination area for decontamination. One emergency worker vehicle will be monitored and require decontamination.

Section VI contains the controller data for contamination levels.

VI. SCENARIO

THIS IS A DRILL

<u>Scenario Phase</u>	<u>Controller Message/Notes</u>
Evacuee monitoring	Sixth evacuee will be contaminated Contamination levels - Left palm 250 cpm >bg - Right palm 300 cpm >bg - Left forearm 250 cpm >bg =====
Evacuee decontamination	First decontamination lowers contamination levels to less than 100 cpm above background =====
Evacuee vehicle monitoring	Second vehicle will be contaminated Contamination levels - Wheel wells 900 cpm >bg =====
Evacuee vehicle decontamination	First decontamination lowers contamination levels to less than 100 cpm above background =====
Emergency worker Monitoring	- Seat of pants 700 cpm >bg - Both palms 1000 cpm >bg - Shoes 2000 cpm >bg =====
Emergency worker to decontamination	First decontamination lowers contamination levels to less than 100 cpm above background =====
Emergency vehicle monitoring	- Wheel wells 1800 cpm >bg - Rear end 1200 cpm >bg =====
Emergency vehicle to decontamination	First decontamination lowers contamination levels to less than 100 cpm >bg

END OF DRILL