



Homeland Security

MAR 26 2007

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

Dear Mr. Caldwell:

Enclosed is one copy of the Final Report for the Radiological Emergency Preparedness (REP) Participation Plume Exposure Pathway Exercise conducted on December 5, 2006, for the Point Beach Nuclear Power Plant (PBNPP). The State of Wisconsin, Manitowoc and Kewaunee Counties, and the utility operator, Nuclear Management Corporation, LLC, participated in this exercise. The final exercise report was prepared by the U.S. Department of Homeland Security Radiological Emergency Preparedness Program Chicago Field Office staff.

There were no Deficiencies identified during this exercise for the State of Wisconsin or the Counties of Kewaunee and Manitowoc. There was one Area Requiring Corrective Action (ARCA) identified during this exercise for the State of Wisconsin under Criterion 1.e.1 – Equipment and Supplies to Support Operations, whereby the permanent record dosimeters used at the MS-1 hospital were out of date.

There was one prior ARCA for the State of Wisconsin under Criterion 3.a.1 – Implementation of Emergency Worker Exposure Control, whereby direct-reading dosimetry had not been issued to the MS-1 hospital staff, that was resolved during this exercise.

There was one ARCA identified for Kewaunee County under Criterion 5.b.1 – Emergency Information and Instructions for the Public and the Media, whereby conflicting instructions were concurrently broadcast in Livestock Advisory and EAS Evacuation messages directing farmers to simultaneously tend to their livestock and evacuate the area.

There were two prior ARCAs for Kewaunee County that were resolved during this exercise. The first prior ARCA was under Criterion 3.a.1 – Implementation of Emergency Worker Exposure Control, whereby emergency workers had not been given adequate radiological briefings. The second prior ARCA was under Criterion 6.d.1 – Transportation and Treatment of Contaminated Injured Individuals, whereby emergency medical technicians did not adequately demonstrate contamination control procedures.

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There was one ARCA identified for Manitowoc County under Criterion 5.b.1 – Emergency Information and Instructions for the Public and the Media, whereby an incorrect “hotline” telephone number for special populations was given to the media.

There were two prior ARCAs for Manitowoc County that were resolved during this exercise. The first prior ARCA was under Criterion 3.a.1 – Implementation of Emergency Worker Exposure Control, whereby inadequate radiological briefings were given to emergency workers. The second prior ARCA was identified under Criterion 5.b.1 – Emergency Information and Instructions for the Public and the Media, whereby conflicting instructions were concurrently broadcast in Livestock Advisory and EAS Evacuation messages directing farmers to simultaneously tend to their livestock and evacuate the area.

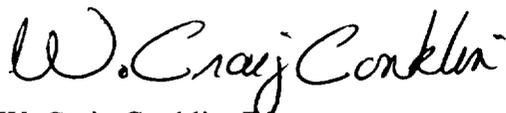
Detailed information regarding these issues is provided in Part IV of the Final Report.

Based on the results of the December 5, 2006, exercise, the offsite radiological emergency response plans and preparedness for the State of Wisconsin and affected local jurisdictions, site-specific to the Point Beach Nuclear Power Plant, can be implemented and are adequate to provide reasonable assurance that appropriate measures can be taken offsite to protect the health and safety of the public in the event of a radiological emergency at the site.

Therefore, the Title 44 CFR, Part 350, approval of the offsite radiological emergency response plans and preparedness for the State of Wisconsin site-specific to the Point Beach Nuclear Power Plant, granted on June 14, 1985, remains in effect.

If you should have any questions, please contact William E. King, Chairman, Radiological Preparedness Coordinating Committee, Chicago Field Office, at (312) 408-5575.

Sincerely,



W. Craig Conklin, Director
Chemical and Nuclear Preparedness
and Protection Division
Office of Infrastructure Protection
Preparedness Directorate

Enclosure

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Point Beach Nuclear Power Plant Exercise – December 5, 2006

Final Report – Radiological Emergency Preparedness Program

March 4, 2007



Homeland
Security

Chicago Field Office





Homeland Security

Final Exercise Report

Point Beach Nuclear Power Plant

Licensee: **Wisconsin Electric Power Company**

Exercise Date: **December 5, 2006**

Report Date: **March 4, 2007**

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

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

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1. EXECUTIVE SUMMARY

On December 5, 2006, a Radiological Emergency Preparedness (REP) Partial Participation Plume Exposure Pathway Exercise was conducted for the 10-mile Emergency Planning Zone (EPZ) around the Point Beach Nuclear Power Plant (PBNPP) by the U.S. Department of Homeland Security (DHS), Chicago Field Office (CFO). The purpose of the exercise was to assess the level of State and local preparedness in responding to a radiological emergency. This exercise was held in accordance with DHS' policies and guidance concerning the exercise of State and local radiological emergency response plans (RERPs) and procedures.

The most recent exercise at this site was conducted on December 4, 2004. The qualifying emergency preparedness exercise was conducted on March 9, 1982.

DHS wishes to acknowledge the efforts of the many individuals who participated in this exercise. In the State of Wisconsin the risk counties of Kewaunee and Manitowoc participated along with the State Government.

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

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

Wisconsin	Reception Center – Evacuee / Emergency Worker Monitoring / Decontamination (Kewaunee County)
	Reception Center – Evacuee Vehicle Monitoring / Decontamination / (Kewaunee County)
	Reception Center – Emergency Worker Vehicle Monitoring / Decontamination (Kewaunee County)
	Medical Services (MS-1) – Facility
Manitowoc County	There were no out-of-sequence activities.
Kewaunee County	Dosimetry Distribution – Reception Center Reception Center – Registration Congregate Care Center Medical Services (MS-1) – Transportation

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

There were no Deficiencies identified during this exercise for the State of Wisconsin or the Counties of Kewaunee and Manitowoc.

There was one Area Requiring Corrective Action (ARCA) identified during this exercise for the State of Wisconsin under Criterion 1.e.1 – Equipment and Supplies to Support Operations, whereby the permanent record dosimeters used at the MS-1 hospital were out of date.

There was one prior ARCA for the State of Wisconsin under Criterion 3.a.1 – Implementation of Emergency Worker Exposure Control, whereby direct-reading dosimetry had not been issued to the MS-1 hospital staff, that was resolved during this exercise.

There was one ARCA identified for Kewaunee County under Criterion 5.b.1 – Emergency Information and Instructions for the Public and the Media, whereby conflicting instructions were concurrently broadcast in Livestock Advisory and EAS Evacuation messages directing farmers to simultaneously tend to their livestock and evacuate the area.

There were two prior ARCAs for Kewaunee County that were resolved during this exercise. The first prior ARCA was under Criterion 3.a.1 – Implementation of Emergency Worker Exposure Control, whereby emergency workers had not been given adequate radiological briefings. The second prior ARCA was under Criterion 6.d.1 – Transportation and Treatment of Contaminated Injured Individuals, whereby emergency medical technicians did not adequately demonstrate contamination control procedures.

There was one ARCA identified for Manitowoc County under Criterion 5.b.1 – Emergency Information and Instructions for the Public and the Media, whereby an incorrect “hotline” telephone number for special populations was given to the media.

There were two prior ARCAs for Manitowoc County that were resolved during this exercise. The first prior ARCA was under Criterion 3.a.1 – Implementation of Emergency Worker Exposure Control, whereby inadequate radiological briefings were given to emergency workers. The second prior ARCA was identified under Criterion 5.b.1 – Emergency Information and Instructions for the Public and the Media, whereby conflicting instructions were concurrently broadcast in Livestock Advisory and EAS Evacuation messages directing farmers to simultaneously tend to their livestock and evacuate the area.

II. INTRODUCTION

On December 7, 1979, the President directed FEMA to assume the lead responsibility for all off-site nuclear planning and response. DHS' 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' 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' responsibilities in radiological emergency planning for fixed nuclear facilities include the following:

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

Representatives of these agencies serve on the DHS Radiological Preparedness Coordinating Committee (RPCC), which is chaired by DHS.

Formal submission of the RERPs for the PBNPP to the FEMA Region V Office by the State of Wisconsin and involved local jurisdictions occurred on April 4, 1984. Formal approval of these RERPs was granted by FEMA on June 14, 1985, under 44 CFR 350.

A REP Partial Participation Plume Exposure Pathway Exercise was conducted on December 5, 2006, by DHS 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 PBNPP. 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. Final determinations were made by the DHS Chicago Field Office RPCC Chairman and approved by DHS Headquarters.

The criteria utilized in the DHS 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.

III. EXERCISE OVERVIEW

Contained in this section are data and basic information relevant to the December 5, 2006, REP Partial Participation Plume Exposure Pathway Exercise to test the offsite emergency response capabilities in the area surrounding the PBNPP. 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.

A. Plume Emergency Planning Zone Description

The Nuclear Management Company (NMC) manages the PBNPP, which is owned by Wisconsin Electric Power Company. The station consists of two 2-loop pressurized water reactors (Units 1 and 2) supplied by Westinghouse Corporation, both rated at 485 megawatts (MW). The operating licenses for the facility were granted in August 1973 (Unit 1) and October 1974 (Unit 2). Commercial operations began at the site during December 1973 (Unit 1) and December 1974 (Unit 2).

The plant site is located about 30 miles southeast of the city of Green Bay in Two Rivers, Wisconsin. Population centers within 50 miles of the site with more than 25,000 people include: Manitowoc (2000 census population: 32,547), located 13 miles southwest of the site; Green Bay (2000 census population: 87,899), located 30 miles northwest of the site; Appleton (2000 census population: 59,032), located 43 miles southwest of the site; and Sheboygan (2000 census population: 48,085), located 36 miles southwest of the site. 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 protective action sub-areas located within the 10-mile EPZ are as follows: 5, 10N, 10NW, 10W, 10SW and 10S.

B. Exercise Participants

The following agencies, organizations and units of government participated in the PBNPP REP Partial Participation Plume Exposure Pathway Exercise on December 5, 2006.

STATE AGENCIES

STATE OF WISCONSIN

Governor's Office
Department of Military Affairs
Wisconsin Emergency Management
Wisconsin Department of Agriculture
Wisconsin Department of Health and Family Services –
Radiation Protection Section
Wisconsin Department of Natural Resources
Wisconsin Department of Transportation
Wisconsin National Guard
Wisconsin Public Service Commission
Wisconsin State Highway Patrol

RISK COUNTIES

KEWAUNEE COUNTY

Kewaunee County Board of Commissioners
Kewaunee County Emergency Management
Kewaunee County Health Department
Kewaunee County Highway Department
Kewaunee County Human Services
Kewaunee County Sheriff's Department

MANITOWOC COUNTY

Manitowoc County Board of Commissioners
Manitowoc County Emergency Management
Manitowoc County Health Department
Manitowoc County Highway Department
Manitowoc County Human Services
Manitowoc County Sheriff's Department

RISK SCHOOL DISTRICTS

Two Rivers School District

**OTHER PARTICIPATING ORGANIZATIONS
(Governmental and Non-Governmental)**

U.S. Nuclear Regulatory Commission
Nuclear Management Corporation, LLC

University of Wisconsin Agriculture Extension Service –
Kewaunee County
Manitowoc County

City of Manitowoc Police Department
City of Manitowoc Fire Department
City of Algoma Police Department
Luxemburg Emergency and Rescue Association

American Red Cross
Radio Amateur Civil Emergency Services
Emergency Alert System Radio Station – WBDK
Emergency Alert System Radio Station – WOMT

C. Exercise Timeline

Table 1, on the following page, presents the times at which key events and activities occurred during the REP Partial Participation Plume Exposure Pathway Exercise conducted on December 5, 2006, for the PBNPP.

Table 1. Exercise Timeline

DATE AND SITE: December 5, 2006 - Point Beach Nuclear Power Plant

Emergency Classification Level or Event	Time Utility Declared	Time That Notification Was Received or Action was Taken				
		Radiological Coordinator Room	State of Wisconsin	Kewaunee County	Manitowoc County	Joint Information Center
Unusual Event	0744	0753	0753	0809	0805	N/A
Alert	0822	0830	0830	0836	0839	N/A
Site Area Emergency	1007	1015	1016	1017	1019	1023
General Emergency	1117	1120	1125	1130	1129	1127
Simulated Radioactive Materials Release Started	1111	1120	1125	1130	1129	1127
Simulated Radioactive Materials Release Terminated	N/A	N/A	N/A	N/A	N/A	N/A
Facility Declared Operational		0904	0918	0935	0905	0940
Declaration of State of Emergency – State		N/A	1129	N/A	N/A	N/A
Declaration of State of Emergency – County		N/A	N/A	1142	1137	N/A
Exercise Terminated		1310	1310	1312	1309	1310
1 st Early Precautionary Action Decision – State: Livestock Advisory: Place animals on stored feed and protected water out to 10-miles		1032	1032	N/A	N/A	N/A
2 nd Early Precautionary Action Decision – Counties: Evacuation of Schools - Michicot and Two Rivers School Districts – Manitowoc County		N/A	N/A	N/A	1020	N/A
1 st Protective Action Decision: Evacuate Sub-area 5		N/A	N/A	1137	1134	N/A
1 st Siren Activation:		N/A	N/A	1140	1140	N/A
1 st EAS Message:		N/A	N/A	1141	1141	N/A
2 nd Protective Action Decision: Evacuate Sub-areas 5, 10W, 10 NW and 10N		N/A	N/A	1245	1245	N/A
2 nd Siren Activation:		N/A	N/A	1250	1250	N/A
2 nd EAS Message:		N/A	N/A	1251	1251	N/A
KI Administration Decision: Emergency Workers		1120	1126	1129	1132	1210
Immobile Populations		1215	1215	N/A	N/A	N/A

IV. EXERCISE EVALUATION AND RESULTS

Contained in this section are the results and findings of the evaluation of all jurisdictions and functional entities that participated in the December 5, 2006, REP Partial Participation Plume Exposure Pathway Exercise to test the off-site emergency response capabilities of State and local governments in the 10-mile EPZ surrounding the PBNPP.

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.

A. Summary Results of Exercise Evaluation

The matrix presented in Table 2, on the following page(s), presents the status of all exercise criteria from Federal Register Notice/Vol. 67, No. 80, dated April 25, 2002, which were scheduled for demonstration during this exercise by all participating jurisdictions and functional entities. Exercise criteria are listed by number and the demonstration status of those criteria are indicated by the use of 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 IV.B.)
- Blank – Not scheduled for demonstration

Table 2. Summary Results of Exercise Evaluation

DATE AND SITE: December 5, 2006, Point Beach Nuclear Power Plant (Sheet 1 of 3)

JURISDICTIONS/ FUNCTIONAL ENTITY	1. a. 1	1. b. 1	1. c. 1	1. d. 1	1. e. 1	2. a. 1	2. b. 1	2. b. 2	2. c. 1	2. d. 1	2. e. 1	3. a. 1	3. b. 1	3. c. 1	3. c. 2	3. d. 1	3. d. 2	3. e. 1	3. e. 2	3. f. 1	4. a. 1	4. a. 2	4. a. 3	4. b. 1	4. c. 1	5. a. 1	5. a. 2	5. a. 3	5. b. 1	6. a. 1	6. b. 1	6. c. 1	6. d. 1			
STATE OF WISCONSIN																																				
Initial Warning Point – Warning Center 2 (Wisconsin Emergency Management)	M			M																																
Emergency Operations Center	M		M	M	M	M	M	M	M			M															M			M						
State Radiological Coordinator Room			M		M	M	M	M																												
State Liaison – Kewaunee County	M		M				M	M																			M			M						
State Liaison – Manitowoc County	M		M				M	M																			M			M						
Joint Information Center (Green Bay)		M																															M			
Public Inquiry Hotline (Pewaukee)																																		M		
Reception Center – Evacuee / Emergency Worker Monitoring / Decontamination – Algoma High School					M							M																						M		
Reception Center – Evacuee Vehicle Monitoring / Decontamination – Algoma High School				M	M							M																						M		
Reception Center – Emergency Worker Vehicle Monitoring / Decontamination – Algoma High School					M							M																						M		
Reception Center – Evacuee / Emergency Worker Monitoring / Decontamination – Manitowoc County Highway Department					M							M																						M		
Reception Center – Evacuee Vehicle Monitoring / Decontamination – Manitowoc County Highway Department				M	M							M																						M		
Reception Center – Emergency Worker Vehicle Monitoring / Decontamination – Manitowoc County Highway Department					M							M																						M		
Medical Services (MS-1) – Facility – Aurora BayCare Medical Center				M	A							M																								M

LEGEND: M = Met (No Deficiency or ARCA(s) assessed)
D = Deficiency assessed

A = ARCA(s) assessed (Not affecting health and safety of public)
U = Unresolved ARCA(s) from prior exercise(s)

Blank = Not scheduled for demonstration
N = Not demonstrated as scheduled (Reason explained in Section IV.B)

Table 2. Summary Results of Exercise Evaluation

DATE AND SITE: December 5, 2006, Point Beach Nuclear Power Plant (Sheet 2 of 3)

JURISDICTIONS/ FUNCTIONAL ENTITY	1. a. 1	1. b. 1	1. c. 1	1. d. 1	1. e. 1	2. a. 1	2. b. 1	2. b. 2	2. c. 1	2. d. 1	2. e. 1	3. a. 1	3. b. 1	3. c. 1	3. c. 2	3. d. 1	3. d. 2	3. e. 1	3. e. 2	3. f. 1	4. a. 1	4. a. 2	4. a. 3	4. b. 1	4. c. 1	5. a. 1	5. a. 2	5. a. 3	5. b. 1	6. a. 1	6. b. 1	6. c. 1	6. d. 1			
<u>RISK COUNTIES</u>																																				
<u>KEWAUNEE COUNTY</u>																																				
Initial Warning Point	M			M																																
Emergency Operations Center	M	M	M	M	M	M		M	M			M	M	M	M	M	M										M			M						
Traffic and Access Control Point	M			M	M							M	M			M																				
Joint Information Center – County Public Information Officer	M	M		M	M																													A		
EAS Radio Station – WBDK				M	M																						M									
Dosimetry Distribution – Kewaunee County Public Health Annex					M							M	M																							
Dosimetry Distribution – Reception Center / Algoma High School					M							M	M																							
Reception Center – Registration – Evacuees / Emergency Workers – Algoma High School					M							M																						M		
Congregate Care Center – Algoma High School																																			M	
Medical Services (MS-1) – Transportation – Luxemburg Emergency and Rescue Association				M	M							M																								M

LEGEND: M = Met (No Deficiency or ARCA(s) assessed)
D = Deficiency assessed

A = ARCA(s) assessed (Not affecting health and safety of public)
U = Unresolved ARCA(s) from prior exercise(s)

Blank = Not scheduled for demonstration
N = Not demonstrated as scheduled (Reason explained in Section IV.B)

Table 2. Summary Results of Exercise Evaluation

DATE AND SITE: December 5, 2006, Point Beach Nuclear Power Plant (Sheet 3 of 3)

JURISDICTIONS/ FUNCTIONAL ENTITY	1.	1.	1.	1.	1.	2.	2.	2.	2.	2.	2.	3.	3.	3.	3.	3.	3.	3.	3.	4.	4.	4.	4.	4.	5.	5.	5.	5.	6.	6.	6.	6.	
	a.	b.	c.	d.	e.	a.	b.	b.	c.	d.	e.	a.	b.	c.	c.	d.	d.	e.	e.	f.	a.	a.	a.	b.	c.	a.	a.	a.	b.	a.	b.	c.	d.
MANITOWOC COUNTY																																	
Initial Warning Point	M			M																													
Emergency Operations Center	M	M	M	M	M	M		M	M			M	M	M	M	M	M									M			M				
Traffic and Access Control Point	M			M	M							M	M			M																	
Supplementary Route Alerting – Aircraft				M	M							M	M													M							
Joint Information Center – County Public Information Officer	M	M		M	M																									A			
EAS Radio Station – WOMET				M	M																					M							
EV-2 Schools (Interview) – Two Rivers School District / Two Rivers High School				M	M							M	M		M																		
Dosimetry Distribution – Sheriff's Department				M	M							M	M																				
Dosimetry Distribution – Reception Center / County Highway Department				M	M							M	M																				
Reception Center – Registration – Evacuees / Emergency Workers / County Highway Department					M							M																			M		
Congregate Care Center – Wilson Junior High School																																M	
Medical Services (MS-1) – Transportation – Manitowoc Fire Department Emergency Medical Services				M	M							M																					M

LEGEND: M = Met (No Deficiency or ARCA(s) assessed)
D = Deficiency assessed

A = ARCA(s) assessed (Not affecting health and safety of public)
U = Unresolved ARCA(s) from prior exercise(s)

Blank = Not scheduled for demonstration
N = Not demonstrated as scheduled (Reason explained in Section IV.B)

B. Status of Jurisdictions Evaluated

This subsection provides information on the evaluation of each participating jurisdiction and functional entity in a jurisdiction-based, issues-only format. Presented below are definitions of the terms used in this subsection relative to criteria demonstration status.

- **Met** – Listing of the demonstrated exercise criteria under which no Deficiencies or ARCAs were assessed during this exercise and under which no ARCAs assessed during prior exercises remain unresolved.
- **Deficiency** – Listing of the demonstrated exercise criteria under which one or more Deficiencies were assessed during this exercise. Included is a description of each Deficiency and recommended corrective actions.
- **Area Requiring Corrective Actions** – Listing of the demonstrated exercise criteria under which one or more ARCAs was 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 Issues – Resolved** – Descriptions of ARCAs assessed during previous exercises that were resolved in this exercise and the corrective actions demonstrated.
- **Prior Issues – Unresolved** – Descriptions of ARCAs assessed during prior exercises that were not resolved in this exercise. Included is the reason the ARCA remains unresolved and recommended corrective actions to be demonstrated before or during the next biennial exercise.

The following are definitions of the two types of exercise issues that are discussed in this report.

- A **Deficiency** is defined in FEMA-REP-14 as "...an observed or identified inadequacy of organizational performance in an exercise that could cause a finding that offsite emergency preparedness is not adequate to provide reasonable assurance that appropriate protective measures can be taken in the event of a radiological emergency to protect the health and safety of the public living in the vicinity of a nuclear power plant."
- An **ARCA** is defined in FEMA-REP-14 as "...an observed or identified

inadequacy of organizational performance in an exercise that is not considered, by itself, to adversely impact public health and safety."

DHS has developed a standardized system for numbering exercise issues (Deficiencies and ARCAs). This system is used to achieve consistency in numbering exercise issues among DHS Field Offices and site-specific exercise reports within each Field Office. It is also used to expedite tracking of exercise issues on a nationwide basis.

The identifying number of Deficiencies and ARCAs includes the following elements, with each element separated by a hyphen (-).

- **Plant Site Identifier** – A two-digit number, corresponding to the Utility Billable Plant Site Code.
- **Exercise Year** – The last two digits of the year the exercise was conducted.
- **Criterion Number** – An alpha and two-digit number corresponding to the criteria numbers in the six Exercise Evaluation Areas described in Federal Register Notice/Vol. 67, No. 80 dated April 25, 2002, which amends FEMA-REP 14, Radiological Emergency Preparedness Exercise Manual.
- **Issue Classification Identifier** – (D = Deficiency, A = ARCA). Only Deficiencies and ARCAs are included in exercise reports. Plan Issues are reported to the State(s) via a letter from the Regional Director. Therefore, standardized issue numbers are not assigned to Plan Issues.
- **Exercise Identification Number** – A separate two- (or three-) digit indexing number assigned to each issue identified in the exercise.

1. STATE OF WISCONSIN

**1.1 Initial Warning Point – Warning Center 2
(Wisconsin Emergency Management)**

- a. MET: Criteria 1.a.1 and 1.d.1
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION: NONE
- d. NOT DEMONSTRATED: NONE
- e. PRIOR ISSUES – RESOLVED: NONE
- f. PRIOR ISSUES – UNRESOLVED: NONE

1.2 Emergency Operations Center

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

1.3 State Radiological Coordinator Room

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

1.4 State Liaison – Kewaunee County

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

1.5 State Liaison – Manitowoc County

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

1.6 Joint Information Center (Green Bay)

- a. MET: Criteria 1.b.1 and 5.b.1
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION: NONE
- d. NOT DEMONSTRATED: NONE
- e. PRIOR ISSUES – RESOLVED: NONE
- f. PRIOR ISSUES – UNRESOLVED: NONE

1.7 Public Inquiry Hotline (Pewaukee)

- a. **MET:** Criterion 5.b.1
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION:** NONE
- d. **NOT DEMONSTRATED:** NONE
- e. **PRIOR ISSUES - RESOLVED:** NONE
- f. **PRIOR ISSUES – UNRESOLVED:** NONE

1.8 Reception Center – Evacuee / Emergency Worker Monitoring / Decontamination – Algoma High School

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

1.9 Reception Center – Evacuee Vehicle Monitoring / Decontamination – Algoma High School

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

1.10 Reception Center – Emergency Worker Vehicle Monitoring / Decontamination – Algoma High School

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

1.11 Reception Center – Evacuee / Emergency Worker Monitoring / Decontamination – Manitowoc County Highway Department

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

1.12 Reception Center – Evacuee Vehicle Monitoring / Decontamination – Manitowoc County Highway Department

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

**1.13 Reception Center – Emergency Worker Vehicle Monitoring /
Decontamination – Manitowoc County Highway Department**

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

1.14 Medical Services (MS-1) – Facility – Aurora BayCare Medical Center

- a. MET: Criteria 1.d.1, 3.a.1 and 6.d.1
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION: Criterion 1.e.1

Issue No.: 49-06-1.e.1-A-01

Condition: The Landauer Thermoluminescent Dosimeters (TLD) used at the Aurora BayCare Medical Center were out of date by four days (expired on December 1, 2006) when the MS-1 drill was held on Dec. 4, 2006.

Possible Cause: The TLD was not received in a timely fashion from the vendor and the hospital staff was unaware of the TLD expiration date.

Reference: NUREG K.3.a and K.3.b.; The State of Wisconsin Nuclear Incident Response Plan, Radiation Protection Section for Department of Health and Family Services, Section II A. Dosimetry.

Effect: Permanent exposure records could not be established for personnel working in the Hospital.

Recommendation: Establish a file and review system which will ensure the TLDs are replaced prior to the expiration dates of the dosimetry for the hospital.

Schedule of Corrective Actions: Aurora BayCare Medical Center has changed its TLD change out schedule to ensure that no available TLD exceeds its

expiration date. This ARCA will be corrected during the December 9, 2008, Point Beach Nuclear Power Plant REP Exercise.

- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ISSUES – RESOLVED: Criterion 3.a.1**

Prior Issue No.: 33-05-3.a.1-A-02

Condition: The Radiation Emergency Area (REA) staff at the Aurora BayCare Medical Center did not have direct-reading dosimeters, as required in the plan and procedures.

Corrective Action Demonstrated: An out of sequence Medical Services (MS-1) drill was held with the Aurora BayCare Medical Center in conjunction with the Point Beach Nuclear Power Plant on December 4, 2006. Twenty-five Arrow-Tech Model 138 0-200mR Direct Reading Dosimeters (DRD), which were last leak-tested in September of 2006, were available and issued to hospital personnel during the drill.

- f. **PRIOR ISSUES – UNRESOLVED: NONE**

2. RISK COUNTIES

2.1. KEWAUNEE COUNTY

2.1.1 Initial Warning Point

- a. **MET: Criteria 1.a.1 and 1.d.1**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: NONE**
- d. **NOT DEMONSTRATED: NONE**
- e. **PRIOR ISSUES – RESOLVED: NONE**
- f. **PRIOR ISSUES – UNRESOLVED: NONE**

2.1.2 Emergency Operations Center

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

2.1.3 Traffic and Access Control Point

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

2.1.4 Joint Information Center – County Public Information Officer

- a. **MET:** Criteria 1.a.1, 1.b.1, 1.d.1 and 1.e.1
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION:** Criterion 5.b.1

Issue No.: 49-06-5.b.1-A-02

Condition: During the exercise, the Livestock Advisory being aired (simulated) by WBDK 96.7 FM continued to air concurrently with the first EAS message and Special Public Broadcast, which included an order to evacuate the five-mile radius around Point Beach Nuclear Power Plant. The Livestock Advisory also continued to air (simulated) concurrently with the second EAS message which expanded the evacuation area out to the 10-mile radius at 1255 hours.

Possible Cause: All public messages except for the Livestock Advisory are the responsibility of Kewaunee County Emergency Management to cancel. Only the Livestock Advisory requires that the EAS station to take action to cancel and remove the message from broadcast upon broadcasting an order to evacuate. This is stated only in the instruction box of the pre-scripted message for the Livestock Advisory. It is therefore easy to overlook. Furthermore, Kewaunee County Emergency Management did not verify with WBDK that the Livestock Advisory had been removed from the broadcast rotation upon receipt of the evacuation order.

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

Effect: The Livestock Advisory states that there is no danger to the public at this time, while the evacuation order states the opposite. Furthermore, the Livestock Advisory suggests that those with livestock should continue trying to shelter them, while the evacuation order suggests that they leave their livestock as is and evacuate the area. Farmers could become confused or neglect the evacuation order to continue sheltering livestock, which could place them at risk of radiological exposure.

Recommendation: Radio Station WBDK should ensure that message airing practices are consistent with contemporary Kewaunee County PADs and directions. Kewaunee County Emergency Management should oversee broadcast message looping to ensure current and accurate information is being broadcast and formalized in its procedures a responsibility to verify with the station that the messages being aired; including the order, the duration and which one(s) are to be cancelled. The instructions component of the "Pre-Scripted Message Manual" for the Point Beach Power Plant, maintained by Kewaunee County Emergency Management and provided to WBDK, should be reviewed to determine if revision is necessary to more clearly identify how long messages should run for, when, how and who has the authority/responsibility to cancel each message.

Schedule of Corrective Actions: Procedures will be revised and EOC staff and radio station personnel will be trained in the revised procedures to ensure that conflicting instructions are not concurrently issued to the public. This ARCA will be corrected during the December 4, 2007, Kewaunee Power Station REP Exercise.

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

2.1.5 EAS Radio Station – WBDK

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

2.1.6 Dosimetry Distribution – Kewaunee County Public Health Annex

- a. **MET:** Criteria 1.e.1, 3.a.1 and 3.b.1
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION:** NONE
- d. **NOT DEMONSTRATED:** NONE
- e. **PRIOR ISSUES – RESOLVED:** Criterion 3.a.1

Prior Issue No.: 33-05-3.a.1-A-04

Condition: Emergency workers were not given an adequate briefing by dosimetry distribution personnel at the Sheriff's Department Annex Dosimetry Distribution Point (DDP) in Kewaunee County. The briefings did not comprehensively address the use of dosimeters, dosimeter zeroing, checking and recording dosimeter readings, administrative and maximum exposure limits and turn-back value, use of permanent record dosimetry and where and to whom to return the dosimetry upon mission completion. The location for returning dosimetry, as stated by dosimetry distribution personnel differed from that stated in the plan (Annex I).

Corrective Action Demonstrated: A Kewaunee County Public Health Nurse successfully conducted a comprehensive briefing of emergency workers at the Kewaunee County Public Health Service office during the Point Beach Nuclear Power Plant Exercise on December 5, 2006. The briefing topics included the proper use of dosimetry, the procedure for zeroing of direct-reading dosimeters, the checking and recording of dosimeter readings, administrative and maximum exposure limits and turn-back values, the use of permanent record dosimetry and the appropriate procedure for dosimetry return upon mission completion.

- f. **PRIOR ISSUES – UNRESOLVED:** NONE

2.1.7 Dosimetry Distribution – Reception Center / Algoma High School

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

2.1.8 Reception Center – Registration – Evacuees / Emergency Workers / Algoma High School

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

2.1.9 Congregate Care Center – Algoma High School

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

**2.1.10 Medical Services (MS-1) – Transportation –
Luxemburg Emergency and Rescue Association**

- a. **MET:** Criteria 1.d.1, 1.e.1, 3.a.1 and 6.d.1
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION:** NONE
- d. **NOT DEMONSTRATED:** NONE
- e. **PRIOR ISSUES – RESOLVED:** Criterion 6.d.1

Issue No.: 33-05-6.d.1-A-05

Condition: The Luxemburg Rescue Ambulance Service Emergency Medical Technicians (EMTs) did not adequately demonstrate contamination control procedures. Contact with the patient’s contaminated clothing and body cross-contaminated the EMTs clothing, gloves, equipment and vehicle.

Corrective Action Demonstrated: During the December 4, 2006, medical services transportation drill for Kewaunee County, three EMTs from the Luxemburg Volunteer Rescue Squad successfully demonstrated through actual execution and through interview procedures to curtail cross-contamination. Some measures used during the actual execution included double-gloving, properly removing and discarding gloves, thoroughly wrapping the patient and cot in blankets, limiting contact with the patient and keeping unnecessary equipment put away and cabinets closed in the ambulance. Through interview, the EMTs showed a greater depth of knowledge of measures to control contamination beyond the basic measures tested in the drill. Some of those measures included lining the floor of the ambulance with plastic, wearing gowns, protective eyewear, or Level C response suits and retreating from the contamination area as quickly as possible. Through demonstration and interview the participating EMTs showed that appropriate training has been provided to ensure their protection and a reduction in the potential for cross-contamination.

- f. **PRIOR ISSUES – UNRESOLVED:** NONE

2.2 MANITOWOC COUNTY

2.2.1 Initial Warning Point

- a. **MET:** Criteria 1.a.1 and 1.d.1
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION:** NONE
- d. **NOT DEMONSTRATED:** NONE
- e. **PRIOR ISSUES – RESOLVED:** NONE
- f. **PRIOR ISSUES – UNRESOLVED:** NONE

2.2.2 Emergency Operations Center

- a. **MET:** Criteria 1.a.1, 1.b.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.2, 2.c.1, 3.a.1, 3.b.1, 3.c.1, 3.c.2, 3.d.1, 3.d.2, 5.a.1 and 5.b.1
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION:** NONE
- d. **NOT DEMONSTRATED:** NONE
- e. **PRIOR ISSUES – RESOLVED:** Criterion 5.b.1

Issue No.: 33-05-5.b.1-A-06

Condition: Concurrently broadcast Livestock Advisory and EAS Evacuation messages instructed farmers to simultaneously tend to their livestock and evacuate the area. At 0958 hours, an Agricultural Livestock Advisory was issued to Radio Station WCUB by the Manitowoc County EOC instructing farmers to place their livestock on stored feed and protected water. The station was instructed to repeat the message every 15 minutes. At 1150 hours, an Evacuation order advising residents to evacuate Sub-areas 5, 10W and 10SW was sent to the station from the EOC for broadcast at 15-minute intervals.

Corrective Action Demonstrated: The EAS and Special News Broadcast messages instructing the public to evacuate Sub-area 5 included instructions to the EAS radio station to stop broadcasting the Livestock Advisory that was previously in effect. In addition, within five minutes of issuing the EAS and SNB messages, the Manitowoc County PIO issued separate instructions to the EAS station via e-

mail and facsimile to stop broadcasting the Livestock Advisory. The radio station followed the instructions appropriately.

- f. **PRIOR ISSUES – UNRESOLVED: NONE**

2.2.3 Traffic and Access Control Point

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

2.2.4 Supplementary Route Alerting – Aircraft

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

2.2.5 Joint Information Center – County Public Information Officer

- a. **MET: Criteria 1.a.1, 1.b.1, 1.d.1 and 1.e.1**
- b. **DEFICIENCY: NONE**
- c. **AREAS REQUIRING CORRECTIVE ACTION: Criterion 5.b.1**

Issue No.: 49-06-5.b.1-A-03

Condition: An incorrect “hotline” special assistance telephone number was provided by the Manitowoc County PIO during the second media briefing at the

JIC. The incorrect number, xxx-xxx-4749, was presented during the SAE ECL at approximately 1055 hours. After questioning by Mock Media following the briefing, the Manitowoc County PIO called the Lead PIO in the County EOC at 1121 hours to obtain clarification. At 1137 hours, a return call from the Lead PIO stated that the correct number was xxx-xxx-4797 (the number posted in the media briefing room). The media were not informed that the “4749” number was incorrect and had been withdrawn until 1153 hours at the third briefing, approximately an hour later.

Possible Cause: The “4749” number was printed on the prescribed Special News Broadcast Message PB EVAC in the binder containing all of the prescribed messages.

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

Effect: Individuals needing transportation assistance would have called the wrong number and heard a message stating “this number is not in service.”

Recommendation: Public information staff should ensure that correct telephone numbers are given to the media during briefings and act with a sense of urgency to correct errors in a timely manner.

Schedule of Corrective Actions: The Emergency Management Director will advise EOC staff to verify telephone numbers that will be issued to the public for accuracy upon EOC activation. This ARCA will be corrected during the December 4, 2007, Kewaunee Power Station REP Exercise.

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

2.2.6 EAS Radio Station – WOMT

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

2.2.7 EV-2 Schools (Interview) – Two Rivers School District / Two Rivers High School

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

2.2.8 Dosimetry Distribution – Sheriff’s Department

- a. **MET:** Criteria 1.d.1, 1.e.1, 3.a.1 and 3.b.1
- b. **DEFICIENCY:** NONE
- c. **AREAS REQUIRING CORRECTIVE ACTION:** NONE
- d. **NOT DEMONSTRATED:** NONE
- e. **PRIOR ISSUES – RESOLVED:** Criterion 3.a.1

Issue No.: 33-05-3.a.1-A-07

Condition: The emergency worker briefings at both the Manitowoc County Sheriff’s Department and the Highway Department did not advise the emergency workers where to return their Direct-Reading Dosimeters (DRDs).

Corrective Action Demonstrated: Radiological briefings at both the Manitowoc County Sheriff’s Department and the Highway Department Reception Center were thorough and employed a new checklist to ensure that all aspects of emergency worker exposure control were covered during the briefings. Each emergency worker was issued a copy of the checklist. Each point on the checklist was discussed, including the location for returning dosimetry equipment upon mission completion.

An interview was conducted with three Sheriff’s Deputies following the briefing. Each deputy was able to identify the appropriate location to return dosimetry equipment upon mission completion.

- f. **PRIOR ISSUES – UNRESOLVED:** NONE

**2.2.9 Dosimetry Distribution – Reception Center /
County Highway Department**

- a. MET: Criteria 1.d.1, 1.e.1, 3.a.1 and 3.b.1
- b. DEFICIENCY: NONE
- e. AREAS REQUIRING CORRECTIVE ACTION: NONE
- f. NOT DEMONSTRATED: NONE
- e. PRIOR ISSUES – RESOLVED: NONE
- f. PRIOR ISSUES – UNRESOLVED: NONE

**2.2.10 Reception Center – Registration –
Evacuees / Emergency Workers – County Highway Department**

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

2.2.11 Congregate Care Center – Wilson Junior High School

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

**2.2.12 Medical Services (MS-1) – Transportation /
Manitowoc Fire Department Emergency Medical Services**

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

APPENDIX 1

ACRONYMS AND ABBREVIATIONS

The following is a list of the acronyms and abbreviations that were used in this report.

ANS	Alert and Notification System
ARC	American Red Cross
ARCA	Area Requiring Corrective Action
CFO	Chicago Field Office (within U.S. Department of Homeland Security)
CFR	Code of Federal Regulations
cpm	counts per minute
DHFS	(Wisconsin) Department of Health and Family Services (Radiological Protection Section)
DHS	(U.S.) Department of Homeland Security
DNR	(Wisconsin) Department of Natural Resources
DOE	(U.S.) Department of Energy
DOT	(U.S.) Department of Transportation (Federal Highway Administration)
EAL	Emergency Action Level
EAS	Emergency Alert System
EBS	Emergency Broadcast System
ECL	Emergency Classification Level
EOC	Emergency Operations Center
EOF	Emergency Operations Facility
EPA	(U.S.) Environmental Protection Agency
EPZ	Emergency Planning Zone
FDA	(U.S.) Food and Drug Administration
FEMA	Federal Emergency Management Agency
FOC	Forward Operating Center
FR	Federal Register
FRMAC	Federal Radiological Monitoring and Assessment Center
GE	General Emergency
gpm	gallons per minute
JIC	Joint Information Center
KI	Potassium iodide
mph	miles per hour
mR/hr	milliRoentgen per hour

msl	mean sea level
MW	Megawatts
NMC	Nuclear Management Company
NOAA	National Oceanic and Atmospheric Administration
NRC	U.S. Nuclear Regulatory Commission
NUREG-0654	NUREG-0654/FEMA-REP-1, Rev. 1, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants, November 1980
NWS	National Weather Service
OIC	Officer-In-Charge
ORO	Off-site Response Organization
PAD	Protective Action Decision
PAG	Protective Action Guidelines
PANS	Public Alert and Notification System
PAR	Protective Action Recommendation
PIO	Public Information Officer
Ppm	Parts per million
R	Roentgen
R/hr	Roentgen per hour
RACES	Radio Amateur Civil Emergency Services
RAD	Radiological Accident Deployment
RAP	Radiological Assistance Program
RASCAL	Radiological Assessment System for Consequence Analysis
RCP	Reactor Coolant Pump
RCS	Reactor Coolant System
REA	Radiation Emergency Area
rem	Roentgen Equivalent Man
REP	Radiological Emergency Preparedness
RERP	Radiological Emergency Response Plan
RO	Radiological Officer
RPCC	Radiological Preparedness Coordinating Committee
RPS	Radiological Protection Section (within Wisconsin DHFS)
SAE	Site Area Emergency
SI	Safety Injection
SRC	State Radiological Coordinator
TACP	Traffic and Access Control Point
TDD	Telecommunications Device for the Deaf
TL	Team Leader
TLD	Thermoluminescent Dosimeter
TSC	Technical Support Center

UHF	Ultra High Frequency
USDA	(U.S.) Department of Agriculture
VHF	Very High Frequency
WRIRP	Wisconsin Radiological Incident Response Plan

APPENDIX 2

EXERCISE EVALUATORS AND TEAM LEADERS

The following is a list of the personnel who evaluated the Point Beach Nuclear Power Plant REP Partial Participation Plume Exposure Pathway Exercise on December 5, 2006. Evaluator Team Leaders are indicated by the letters “(TL)” after their names. The organization which each evaluator represents is indicated by the following abbreviations:

DHS U.S. Department of Homeland Security
ICF ICF Consulting, Inc.

<u>TITLE</u>	<u>NAME</u>	<u>ORGANIZATION</u>
Radiological Preparedness Coordinating Committee Chairman	William King	DHS
Exercise Director	William King	DHS
Site Specialist	Carl Bebrich	DHS

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

Initial Warning Point – Warning Center 2 (Wisconsin Emergency Management)	Raymond Wood	ICF
Emergency Operations Center	Jay Kinsley – TL Clint Crackel Carolyn Sturghill David Petta	DHS DHS DHS ICF
State Radiological Coordinator Room	Raymond Wood	ICF
State Liaison – Kewaunee County	Harral Logaras	DHS
State Liaison – Manitowoc County	Carl Bebrich	DHS
Joint Information Center (Green Bay)	Michael Meshenberg	ICF
Public Inquiry Hotline (Pewaukee)	Douglas Himle	ICF
Reception Center – Evacuee / Emergency Worker Monitoring / Decontamination – Algoma High School	David Stuenkel	ICF

Reception Center – Evacuee Vehicle Monitoring / Decontamination – Algoma High School Terri Connors-Hartman DHS

Reception Center – Emergency Worker Vehicle Monitoring / Decontamination – Algoma High School Terri Connors-Hartman DHS

Reception Center – Evacuee / Emergency Worker Monitoring / Decontamination – Manitowoc County Highway Department Marynette Herndon ICF

Reception Center – Evacuee Vehicle Monitoring / Decontamination – Manitowoc County Highway Department David Stuenkel ICF

Reception Center – Emergency Worker Vehicle Monitoring / Decontamination – Manitowoc County Highway Department David Stuenkel ICF

Medical Services (MS-1) – Facility – Aurora BayCare Medical Center Marynette Herndon ICF

KEWAUNEE COUNTY

Initial Warning Point Tom McCance ICF

Emergency Operations Center Harral Logaras – TL DHS
Clint Crackel DHS
William McRee ICF
Tom McCance ICF

Traffic and Access Control Point Todd Sniffin ICF

Joint Information Center – County Public Information Officer Michael Meshenberg ICF

EAS Radio Station – WBDK Nick Lowe ICF

Dosimetry Distribution – Kewaunee County Public Health Annex Todd Sniffin ICF

Dosimetry Distribution – Reception Center / Algoma High School Douglas Himle ICF

Reception Center – Registration –
Evacuees / Emergency Workers –
Algoma High School

Michael Meshenberg ICF

Congregate Care Center –
Algoma High School

Michael Meshenberg ICF

Medical Services (MS-1) –
Transportation – Luxemburg
Emergency and Rescue Association

Nick Lowe ICF

MANITOWOC COUNTY

Initial Warning Point

Robert Vork ICF

Emergency Operations Center

Carl Bebrich – TL DHS
Richard Smith ICF
Robert Vork ICF
Sarah Everidge ICF

Traffic and Access Control Point

David Henry ICF

Supplementary Route Alerting – Aircraft

David Henry ICF

Joint Information Center –
County Public Information Officer

Patrick Taylor ICF

EAS Radio Station – WOMT

Terri Connors-Hartman DHS

EV-2 Schools (Interview) –
Two Rivers School District /
Two Rivers High School

Sonia Eischen ICF

Dosimetry Distribution –
Sheriff’s Department

David Henry ICF

Dosimetry Distribution –
Reception Center /
County Highway Department

Ernest Boaze ICF

Reception Center – Registration –
Evacuees / Emergency Workers –
County Highway Department

Richard Grundstrom ICF

Congregate Care Center –
Wilson Junior High School

Richard Grundstrom ICF

Medical Services (MS-1) –
Transportation – Manitowoc Fire
Department Emergency Medical Services

Ernest Boaze ICF

APPENDIX 3

EXERCISE CRITERIA AND EXTENT-OF-PLAY AGREEMENTS

This appendix lists the exercise criteria that were scheduled for demonstration in the REP Partial Participation Plume Exposure Pathway Exercise on December 5, 2006, for the PBNPP and the off-site extent-of-play agreement approved by DHS CFO for the State of Wisconsin on October 17, 2006.

The exercise criteria, contained in FEMA "Radiological Emergency Preparedness Exercise Evaluation Methodology," as published in the Federal Register Notice, Volume 67, No 80, dated April 25, 2002, represent a functional translation of the planning standards and evaluation criteria of NUREG-0654/FEMA-REP-1, Rev. 1, Criteria for the Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants, November 1980.

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

A. Exercise Criteria and Extent-of-Play

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

Point Beach Nuclear Power Plant Exercise

Extent of Play Agreement

State of Wisconsin / Kewaunee County / Manitowoc County

Exercise Date: December 5, 2006

Location: State of Wisconsin and Manitowoc and Kewaunee County EOCs and field operations.

This one-day exercise is a partial participation plume exposure pathway exercise, with partial participation by the State of Wisconsin and full participation by Kewaunee County and Manitowoc County. The State of Wisconsin and Kewaunee and Manitowoc Counties are the off-site response organizations (OROs).

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

EVALUATION AREA 1 – EMERGENCY OPERATIONS MANAGEMENT

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

State of Wisconsin

This will be a partial participation plume exercise (i.e., field teams will not be participating; field team data will be simulated.) All activities, including radiological control/dose assessment, will occur at the State Emergency Operations Center (SEOC) and the SRC Room (105) by Controller Inject at 2400 Wright Street, Madison, Wisconsin.

The initial notification will occur via the Dial Select system and will be passed to the Wisconsin Emergency Management Duty Officer. The Duty Officer will use the Standing Operating Procedure for activation. All staff from participating state agencies or organizations will receive calls in their offices and report to the SEOC in real time.

Pre-positioned staff for this exercise will be:

- Wisconsin Emergency Management Liaisons will be pre-positioned at the Kewaunee and Manitowoc County EOCs. The Emergency Police Services Director will be pre-positioned at the Manitowoc County EOC. These positions will be contacted to report to their duty stations at the appropriate time during the exercise per the scenario.
- State Joint Information Center (JIC) staff will be pre-positioned in the area and notified by the Public Information Officer (PIO) to report to the JIC when a site ALERT is declared. They will wait 20 minutes after being notified before

reporting. The JIC is located at 3060 Voyager Drive in Green Bay, Wisconsin. The Public Inquiry Hotline will be located at N15 W23700 Stone Ridge Drive, Pewaukee, Wisconsin.

The State will provide a 24-hour staffing list (staff to be identified by positions) to the federal evaluator.

Kewaunee County

Activities will occur at various sites around Kewaunee County. The base of operations will be the Kewaunee County Emergency Operations Center, located in the lower level of the Algoma City Hall, 416 Fremont Street, Algoma, Wisconsin. Alert and staff call-up procedures will be followed according to the plan. The 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 JIC and will wait ~20 minutes to mobilize after notification, similar to State procedures.

Manitowoc County

Activities will occur at various sites around Manitowoc County. The base of operations will be the Manitowoc County Emergency Operations Center, 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 according to 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 State will use and demonstrate the facilities to support the accomplishment of emergency operations, (e.g., adequate space, furnishings, lighting, restrooms, ventilation, back-up power) based on plans and procedures. The State EOC is located in Room 102 at 2400 Wright Street, Madison, Wisconsin.

Kewaunee County, Manitowoc County

Kewaunee County and Manitowoc County will demonstrate the availability of facilities to support the accomplishment of emergency operations (e.g., adequate space, furnishings, lighting, restrooms, ventilation, back-up power).

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

State of 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 EOCs and the utility. Wisconsin Emergency Management staff will play in the place of other state agency and organization participants with the exception of the Department of Health & Family Services, which will participate.

Kewaunee County, Manitowoc County

Each County EOC will direct and control emergency operations for their county and coordinate decisions and emergency activities with the state, the other Risk County and the JIC.

Criterion 1.d.1 Communications Equipment: *At least two communication systems are available, at least one operates 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 will use a variety of communication systems (e.g., Dial Select, commercial telephones, cellular phones, satellite phone, amateur radio, TDD, 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 are used as primary means of communication. Ham radio operators will also test radio communications with the county EOCs.

Kewaunee County

Kewaunee County uses a variety of communication systems. Dial-Select, commercial telephones, cellular phones and fax machines will be used to communicate with the utility and other locations. The PIOs at the JIC will use a laptop computer and an electronic email program for communications with the EOC. Kewaunee County will use new laptops and a new electronic email program as the primary form of messaging. Paper messaging will be used as a back up or when email isn't an option.

Manitowoc County

Manitowoc County uses a variety of communication systems. Dial-Select, commercial telephones, cellular phones and fax machines will be used to communicate with the utility and other locations. Laptops and email will be used as primary form of messaging. Paper messaging will be used as a back up or when email isn't an option.

Criterion 1.e.1 Equipment and Supplies to Support Operations: *Equipment, maps, displays, dosimeters, 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 and the JIC. The state will demonstrate the availability of potassium iodide (KI). The current supply of KI expires in March of 2007. Documentation of the KI expiration date will be available at the EOC and other applicable locations for inspection by federal evaluators.

The state will demonstrate the use of dosimetry as part of the demonstration of reception center operations and the response to a medical emergency involving a potentially contaminated evacuee. Survey instrument inventory and calibration records will be included as part of the Annual Letter of Certification. Instrument inventory and calibration records are maintained by Wisconsin Department of Health and Family Services – Radiation Protection Section (DHFS-RPS) and will be available for review at 1 West Wilson Street, Room 148, Madison, Wisconsin.

Kewaunee County

Kewaunee County will adequately 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 additional distribution will occur at two locations: (1) out of sequence on December 4, 2006, at the Reception Center at Algoma High School, 1715 Division, Algoma, Wisconsin; and (2) in sequence on December 5, 2006, at the Annex Building, 510 Kilbourn, Kewaunee, Wisconsin. The Algoma High School activities will be demonstrated out of sequence on December 4, 2006, beginning at 6:30 PM. KI is stored at the EOC. The record of dosimeter calibration and the expiration date of KI will be available for the evaluator in the EOC on the day of the exercise.

Manitowoc County

Manitowoc County will demonstrate their ability to support operations through the use of maps, status boards and other displays as appropriate. Dosimeter and KI distribution locations, procedures and storage are described in the county's EOP, Annex I in the Radiological Officer and Health Department Checklists and in Attachment 2 (A, B, C). Some county emergency worker dosimetry kits will be pre-distributed and the remainder will be distributed at the Manitowoc County Highway Department Reception Center, located at 3500 Highway 310, Manitowoc, Wisconsin. The record of dosimeter calibration and the expiration date of KI (March 2007) will be available for the evaluator in the EOC.

EVALUATION AREA 2 – PROTECTIVE ACTION DECISION MAKING

Criterion 2.a.1 Emergency Work 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 State Radiological Coordinator (SRC) is positioned at 2400 Wright Street, Room 105, Madison, Wisconsin. The SRC, based on his or her technical evaluation of the available data, will make recommendations for emergency worker exposure control. This includes recommendations to the Kewaunee and Manitowoc County Radiological Officers for the ingestion of KI and, as appropriate, authorization to exceed plan-specified exposure limits.

Kewaunee County

The County Radiological 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 EOC. The County RO will also evaluate requests from public safety officials concerning exceptions to worker exposure limits and make a recommendation to the County OIC regarding each request.

Manitowoc County

The County Radiological 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 EOC. The County RO will also evaluate requests from public safety officials concerning exceptions to worker exposure limits and make a recommendation to the County OIC regarding each request. In Manitowoc County, the Health Office Representative and the RO make the recommendation to the OIC jointly.

Criterion 2.b.1 Radiological Assessment & Protective Action Recommendations:
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 will evaluate information provided by the licensee and complete independent dose projections based on that information and simulated field-monitoring data. Field monitoring data will be provided to the SRC via Controller Inject messages. The SRC will evaluate the data and make a protective action recommendation to the Officer-in-Charge.

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 on plant conditions and simulated field sampling results.

Kewaunee County, Manitowoc County

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

State of Wisconsin

The Governor or his designee will demonstrate the ability to make appropriate protective action decisions based on recommendations from the Officer-in-Charge and SRC in the SEOC. As a home rule state, the Governor or his designee makes recommendations but implementation decisions ultimately reside with the Chief Elected Official or County Sheriff who may modify recommendations based on local needs or considerations. The decision is coordinated with the Kewaunee and Manitowoc County EOCs to ensure that the counties are able to fully respond at the designated time. The State Emergency Operations Plan (EOP) directs that KI not be made available to the general public. Decisions regarding the distribution of KI to immobile populations are a County function.

Kewaunee County, Manitowoc County

Each 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 evacuation 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.

Criterion 2.c.1 Protective Action Decisions for 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 judges that the situation is deteriorating, based on status information received from the utility and that an evacuation is imminent, he/she will alert the counties so that they may begin preparing to implement this aspect of their plan.

Kewaunee County

The county will demonstrate the ability and resources to make appropriate protective actions decisions. The Radiological Officer (RO) will receive information from the SRC regarding the protective actions recommended for special populations. The RO will relay that information to the OIC and appropriate agencies for consideration. All protective action decisions will be made by the Chief Elected Official or his/her designee. There are no schools or Day Cares in the 10-mile EPZ for the Point Beach exercise that will warrant decisions regarding protective actions.

Manitowoc County

The County RO will present the protective action decision 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. KI is not given to schoolchildren in Manitowoc County. The Two Rivers and Mishicot School Districts are within the 10 mile radius of the PBNPP. The Manitowoc County OIC will discuss the protective actions with the District Administrator. Silver Lake College will be the Host School. A Silver Lake Rep. will be present for interview with Two Rivers Representatives. The Hamilton Nursing Home is in the EPZ. Nursing Home decision makers have chosen to shelter their residents in place. KI doses are available in the county's supply for patients and staff. Distribution will be simulated if it is determined to issue KI.

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, Kewaunee County, Manitowoc County

This criterion will not be demonstrated in this exercise.

Criterion 2.e.1 Radiological Assessment and Decision Making Concerning Relocation,

Re-entry and Return: *Timely relocation, re-entry and return decisions are made and coordinated as appropriate, based on assessments of the radiological conditions and criteria in the OROs plan and/or procedures.*

State of Wisconsin, Kewaunee County, Manitowoc County

This criterion will not be demonstrated in 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 plan and procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart.*

State of Wisconsin

This criterion will be demonstrated in accordance with the plan and procedures at monitoring and decontamination facilities and at MS-1 medical facilities (field teams will not be activated for this exercise).

Kewaunee County, Manitowoc County

Emergency workers will use direct reading and thermoluminescent dosimeters to monitor and control their radiation exposure. Emergency workers in both counties will follow procedures in their respective plans regarding radiological equipment use and exposure limits and to monitor and record dosimeter readings. County emergency worker will receive their dosimetry kits at reception centers and other pre-determined locations in accordance with county plans – Annex Building (Kewaunee County); Sheriff's Department (Manitowoc County). The kits contain a TLD, pencil dosimeters, instructions and a form for recording dosimetry readings.

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

This criterion will not be demonstrated, since state emergency workers (i.e., the Forward Operations Center/Mobile Radiological Laboratory and field teams) will not be activated for this exercise.

Kewaunee County, Manitowoc County

Each county emergency worker dosimetry kit contains KI, instructions and a form for recording KI ingestion. For exercising purposes, a faux KI tablet will be used. These kits will be issued from and returned to the reception center at the County Highway Department (Manitowoc County) or the Annex Building (Kewaunee County) before assuming/completing shift duties. Some kits will be pre-distributed. Each county emergency worker dosimetry kit contains a simulated individual dose of KI. The Kewaunee and Manitowoc County EOCs will instruct emergency workers, through their supervisor, when they should take the simulated KI.

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

State of Wisconsin

This criterion will not be demonstrated at monitoring and decontamination facilities, since, in accordance with the plan and procedures, this is a county function. The State Radiological Officer (RO) will receive information from the SRC regarding the protective action(s) recommended for special populations. The RO will relay that information to the State OIC and appropriate agencies for consideration.

Kewaunee County, Manitowoc County

Kewaunee and Manitowoc Counties will demonstrate the ability and describe the resources to implement appropriate protective actions for their special population groups. 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 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.

Kewaunee County will call three of their 12 contacts (i.e., Dworak Buses, Luxemburg/Casco Buses and East Shore Industries.)

Manitowoc County will call 3 of their 5 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

This criterion will not be demonstrated since this is a county function.

Kewaunee County

This criterion will not be demonstrated. There are no schools or day cares in the 10-mile EPZ.

Manitowoc County

Manitowoc County will simulate the evacuation of a school and make arrangements for interviews with the school superintendent, principal, bus company manager and a bus driver at the Two Rivers School District Office, Two Rivers High School, 4519 Lincoln Avenue, Two Rivers, Wisconsin, at 10:00 a.m. on December 5, 2006. Manitowoc County will also make arrangements for interview of a Host School representative. A county escort will be available if needed.

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

State of Wisconsin

This criterion will not be demonstrated, since this is a county function.

Kewaunee County, Manitowoc County

Each county will demonstrate this criterion at a designated location. Kewaunee County evaluators will be informed of the location and timing of this demonstration at the Pre-Exercise Briefing. Manitowoc County evaluators will be informed during play. County escorts will be provided. The counties are responsible for contacting the FAA and RR Commission to close air space and restrict train movements. The Kewaunee County Sheriff's Dept will call the Coast Guard.

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

State of Wisconsin

This criterion will not be demonstrated since this is a county function.

Kewaunee County, Manitowoc County

Each county will demonstrate in the County EOC the capability to identify and take appropriate actions concerning impediments to evacuation. Actual resources will not be dispatched, but one contact will be made and 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, Kewaunee County, Manitowoc County
This criterion will not be demonstrated in 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, Kewaunee County, Manitowoc County
This criterion will not be demonstrated in 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, Kewaunee County, Manitowoc County
This criterion will not be demonstrated in this exercise.

EVALUATION AREA 4 – FIELD MEASUREMENT AND ANALYSIS

State of Wisconsin, Kewaunee County, Manitowoc
These criteria will not be demonstrated, since state emergency workers (i.e., the Forward Operations Center/Mobile Radiological Laboratory and field teams) will not be activated for this exercise and there are no county field teams.

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 at a minimum:*

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

State of Wisconsin

After the protective action recommendation has been approved, the state will select the appropriate pre-scripted EAS Message and Special News Broadcast for the approved Protective Action Decision and confirm the message selected with Kewaunee and Manitowoc Counties. The counties review the message and content and approve it “as is,” or modify the message to reflect local weather, road construction or other considerations prior to its release. Once the message text is agreed upon by the state and the counties (the concurrence is by phone), the message number is relayed to the county over the phone for the counties to broadcast. The State and Counties have identical copies of the message book, so only the message number is relayed. The message is identified by the relayed number for proper broadcast. The counties follow their procedures to coordinate the time for sounding their sirens and broadcasting the EAS message.

Kewaunee County

Kewaunee County will growl its sirens. The county will call WBDK – FM Radio, located at 3030 Park Drive, Sturgeon Bay (Door County), Wisconsin. and 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 WBDK. Kewaunee County will demonstrate this procedure once for evaluation purposes. WBDK Radio station has given Kewaunee County 24 hour access to the station for broadcasting EAS messages. The county will provide recent successful siren test evidence to the federal evaluator. WBDK-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 WOMT/WQTC – FM/AM Radio, located at 3730 Mangin Street, Manitowoc, Wisconsin. The station will simulate the broadcast of both messages. The station has 24-hour capability. The county will provide recent siren test documentation to the federal evaluator. WOMT– Radio will have staff available for evaluator interview during the exercise. A county escort will be available if needed.

An aircraft mounted public address system is used to provide back-up to the primary warning siren 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 at the county airport.

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 government organization and the official with the authority for providing the alert signal and instructional message;*
- 2) *Identification of the commercial nuclear power plant and a statement that an emergency situation exists at the plant;*
- 3) *Reference to REP specific emergency information (e.g., brochures and information in telephone books) for use by the general public during an emergency;*
- 4) *A closing statement asking the affected and potentially affected population to stay tuned for additional information. In addition, the ORO must demonstrate the capability to contact, in a timely manner, an authorized offsite decision maker relative to the nature and severity of the event, in accordance with plans and procedures.*

State of Wisconsin, Kewaunee County, Manitowoc County
This criterion will not be demonstrated.

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 the primary alert and notification system.*

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

Kewaunee County, Manitowoc County
There are no FEMA approved exception areas in either county for the Point Beach Nuclear Power Plant. Neither county plans to demonstrate this criterion. If an unforeseen problem occurs with the siren system, the appropriate county/ies will demonstrate the backup alerting procedures unless hazardous weather or road conditions prevent safe demonstration.

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

State of Wisconsin
The state will demonstrate the formulation and dissemination of accurate information and instructions, including pre-scripted EAS messages and Special News Broadcast to the JIC. The State of Wisconsin PIOs in the JIC will coordinate with the State EOC and PIOs from the counties and 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 hotline calls will be handled as per the State Emergency Operations Plan. The hotline call center will be staffed by Wisconsin Energy personnel. A controller will not be present on-site.

(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 printed and distributed.

Kewaunee County, Manitowoc County

Each 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 N15 W23700 Stone Ridge Drive Pewaukee, Wisconsin, for rumor control. All media briefings will be done at the JIC in Green Bay. The Kewaunee and Manitowoc County PIOs assigned to the JIC will work closely with their respective PIOs at the county EOCs to make sure media releases are accurate and coordinated.

EVALUATION AREA 6 – SUPPORT OPERATIONS/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 per the procedures set forth in 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 Department of Health and Family Services – Radiation Protection Section (DHFS-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 DHFS-RPS staff and will be evaluated as 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 two emergency workers, one of whom 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, December 4, 2006 beginning at

6:30 PM. In Manitowoc County, the Reception Center demonstration will be held in sequence on Tuesday, December 5, 2006.

Kewaunee County

Kewaunee County will demonstrate this criterion out of sequence on December 4, 2006 beginning at 6:30PM 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 in sequence at the Manitowoc County Reception Center (County Highway Department), 3500 Highway 310, Manitowoc, Wisconsin. Manitowoc County Human Services, with assistance from the American Red Cross, is responsible for registering evacuees and assigning them to appropriate congregate care facilities - evacuees are transferred by school bus. "Evacuees" will be senior citizen 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 the Kewaunee Reception Center (Algoma High School). 1715 Division, Algoma, Wisconsin, beginning at 6:30 PM on December 4, 2006 and in sequence at the Manitowoc County Reception Center (County Highway Department), 3500 Highway 310, Manitowoc, Wisconsin, on December 5, 2006. Reception center personnel will demonstrate the monitoring of one emergency vehicle, which will require decontamination.

Kewaunee County, 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 on December 4, 2006, following the reception center demonstration at approximately 6:30 PM. The congregate care center is in the lunchroom of the Algoma High School; Red Cross will bring inventory lists of required shelter

equipment and will operate in accordance to their procedures. 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 Department on December 5, 2006. The congregate care center will be located at Wilson Junior High School, 1201 North 11th Street, Manitowoc, Wisconsin. Evaluators will be provided an escort if needed (via school bus). "Evacuees" will be senior citizen 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 Monday, December 4, 2006, at the Aurora Bay Care Medical Center in Green Bay. The hospital portion of the drill will be a continuation of the Kewaunee County ambulance drill. Set-up for the drill will commence at about 6:30 PM at the Algoma Reception Center. The transportation portion of the drill will begin at about 7:00 PM and should transition to the hospital portion by about 7:45 PM. The hospital will demonstrate setting up the Radiological Emergency Area (REA) and 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 at the Kewaunee County Reception Center (Algoma High School) on December 4, 2006, during the Reception Center drill at 6:30 PM. Luxemburg Rescue will prepare a person with simulated contamination and injury for transport to a hospital. The victim will be loaded into the ambulance and transported to Aurora Bay Care Medical Center in Green Bay, Wisconsin. Ambulance personnel will make a report to the hospital and coordinate with the County EOC regarding the appropriate route to be driven. The hospital portion of the drill will commence when the ambulance crew reports the status of the incoming patient. The ambulance crew will be issued dosimetry in accordance with the plan.

Manitowoc County

The transportation section of the drill will be demonstrated in sequence at the Manitowoc County Reception Center (County Highway Department) on December 5, 2006. Manitowoc Fire Department EMS personnel will demonstrate the packaging and preparation for transport of a potentially contaminated medical victim. Ambulance personnel will make a report to the hospital and coordinate with the County EOC regarding the appropriate route to be driven. Actual transport to the hospital will be simulated.

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 LTDs and DRDs in accordance with the plan.

APPENDIX 4

EXERCISE SCENARIO

This appendix contains a summary of the simulated sequence of events that was used as the basis for invoking emergency response actions by Offsite Response Organizations in the REP Partial Participation Plume Exposure Pathway exercise conducted on December 5, 2006, for the PBNPP.

This plume exercise scenario was submitted by the State of Wisconsin and Nuclear Management Company and approved by DHS/CFO on October 17, 2006.

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

**State of Wisconsin
Point Beach Nuclear Power Plant
Partial Participation Plume Exposure Pathway Exercise**

OFF-SITE SCENARIO AND TIMELINE

Events held on December 4 & 5, 2006

Following is the off-site exercise timeline for the December 5th Point Beach Nuclear Power Plant Exercise, for the State of Wisconsin, Kewaunee and Manitowoc Counties. **Times listed are approximate.**

Scheduled Starting Time Comments

Monday, December 4, 2006

2:00 PM DHS Pre-Exercise Briefing – Holiday Inn, Manitowoc, WI.

6:30 PM Kewaunee County Reception Center Drill, including MS-1 transportation and hospital demonstration.

Tuesday, December 5, 2006 – Exercise

~07:15 Full-Scale Exercise begins.

~0720 **Unusual Event** security event –tampering on equipment.

~0745 **Unusual Event** declared per EAL HU4.1

~0800 **UNUSUAL EVENT** notification made to Wisconsin Duty Officer (via Warning Center 1 or 2) and Kewaunee and Manitowoc County Emergency Management Directors (via Dispatch).

Duty Officer contacts State Radiological Coordinator and makes other contacts in accordance with Standard Operating Procedures.

~0825 **Alert** declared per EAL HA3

~0835 **ALERT** notification made to Wisconsin Duty Officer and Kewaunee and Manitowoc County EM Directors.

1. Duty Officer notifies State Radiological Officer (SRC) of Alert status.
2. SRC recommends activation of EOC.
3. Senior DO officer activates EOC. Instructs Duty Officer to begin calldown.
 - EOC security established
 - Phone assignments are made, Esponder event site created, phone lists, forms and manuals are distributed. SRC room set up.
 - Communications with Kewaunee County, Manitowoc County and the utility are established.
 - EOC personnel are briefed and instructed to log onto Esponder and sign into roster.
4. County EOC's are activated.
5. Local first responders are put on standby.
6. Joint Information Center (JIC) is activated.
 - Notification to State & County Public Information Officers (PIO) is made.
7. Reception Centers/Congregate Care Centers are put on standby.
8. Counties will broadcast "First Notice" advisory.

~1010

Site Area Emergency declared per EAL SS2.1.

~1025

SITE AREA EMERGENCY notification is made to State and Counties.

1. Reception Centers and Congregate Care Centers are activated. (Manitowoc County only)
 - Note:** Demonstration at Algoma High School Reception Center was conducted Monday, December 4th at 6:30 PM.
2. All daycares in EPZ are evacuated to XXXXX School near Manitowoc and XXXX in Algoma.
3. Livestock advisory issued to all farmers in EPZ.
4. Ingestion brochures are ordered from printer.

~1115

General Emergency declared per EAL FG1.

~1130

GENERAL EMERGENCY notification is made to State and County. Plant recommends **EVACUATION** of all sectors out to 2 miles and **EVACUATE** sectors (NPQR) out to 5 miles. The states default evacuation PAR is 5 miles, 360 degrees. Affected sub-areas: 5. Wind speed is 5 mph.

SRC will quickly evaluate the utility recommendation and will then brief the OIC. The OIC/Ops staff will contact the contacts with the recommendation and obtain concurrence.

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. (PB Evac 1)

1. Exception area route alerting will be demonstrated, if necessary.
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

~1215

Increase in the amount of radiological material released.

~1230

Notification of 2nd PAR is made to the State and County.

Utility recommends EVACUATION of all sectors out to 5 miles and EVACUATE sectors NPQR out to 10 miles. Affected sub-areas are 5, 10W, 10NW, 10N. Wind speed remains at 5mph.

1. All EOC staff are notified of status change.
2. Second PAR is recommended by the SRC to the OIC.

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. (PB Evac 8)

~1300

Utility will terminate exercise. State, county and JIC may continue play.

RECEPTION CENTER DRILL SCENARIO

KEWAUNEE COUNTY

ALGOMA RECEPTION CENTER

I. PROPOSED SCHEDULE

Date: December 4, 2006
Time: 6:30 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 Point Beach Nuclear Plant.

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 6:30 pm and 9:00 pm on December 4, 2006, 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 State 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 Algoma Reception Center will commence at approximately 6:30 pm, Monday, December 4th in response to notification that a radiological incident has occurred at the Point Beach Nuclear Plant.

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 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 decontamination	First decontamination lowers contamination levels to less than 100 cpm >bg

END OF DRILL

RECEPTION CENTER DRILL SCENARIO

MANITOWOC COUNTY

MANITOWOC RECEPTION CENTER

I. PROPOSED SCHEDULE

Date: December 6, 2006
Time: ~9:30 am - ~1:30 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 Point Beach Nuclear Plant.

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 ~9:30 am through ~1:30 pm on December 5, 2006, 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 State 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 9:00 am, Tuesday, December 5th, in response to notification that a radiological incident has occurred at the Point Beach Nuclear Plant.

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 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 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 decontamination	First decontamination lowers contamination levels to less than 100 cpm >bg

END OF DRILL

THIS IS A DRILL

DO NOT initiate actions affecting normal operations

Note: Ambulance and hospital staff DRDs read <1 mR/hr 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
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Radiological Conditions (if surveyed prior to transport)	
Victim's clothing:	2000 cpm (0.5 mR/hr)
Fracture site:	2000 cpm (0.5 mR/hr)
Victim's palms:	2000 cpm (0.5 mR/hr)

EMS transport	Medical Conditions Conscious level: unchanged Respiration: 18 Pulse: 84 Blood pressure: 138/78 Skin: unchanged Pupils: unchanged Other: unchanged
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THIS IS A DRILL

Scenario Phase

Controller Message

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 (0.5 mR/hr)
Fracture site: 2000 cpm (0.5 mR/hr)
Victim's palms: 2000 cpm (0.5 mR/hr)

After first
decontamination

Radiological Conditions

Fracture site: 500 cpm (0.15 mR/hr)
Victim's palms: 1000 cpm (0.3 mR/hr)

After second
decontamination

Radiological Conditions

Fracture site: 200 cpm (< 0.1 mR/hr)
Victim's palms: background

After third
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

MEDICAL SERVICES (MS-1) HOSPITAL & AMBULANCE DRILL SCENARIO

KEWAUNEE COUNTY

AURORA BAYCARE MEDICAL CENTER

LUXEMBURG EMERGENCY AND RESCUE ASSOCIATION

I. PROPOSED SCHEDULE

Date: December 4, 2006
Time: ~7:00 pm (ambulance drill)
~7:45 pm (hospital drill)
Locations: Algoma High School (ambulance drill)
1715 Division Street
Algoma, WI

Aurora BayCare Medical Center (hospital drill)
2845 Greenbrier Road
Green Bay WI

Injury/Illness: Concussion, broken ankle and open wound on
right arm

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 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 public arrives at the Algoma High School Reception Center as a result of a simulated radiological release. This individual has driven to the center as recommended by emergency messages

delivered via the media.

Upon entering the reception center, the individual trips and falls into the end of the bleachers. This results in a possible concussion, broken ankle and open gash on the right arm. The individual becomes very disoriented and cannot stand.

Ambulance personnel medically evaluate the patient, request assistance from other workers as necessary and prepare the victim for transport to Aurora BayCare Medical Center in Green Bay. Aurora BayCare Medical Center is notified of the victim's condition and estimated time of arrival, 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 Aurora BayCare 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 acceptable 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 staff DRDs read <1 mR throughout the drill

<u>Scenario Phase</u>	<u>Controller Message</u>
Discovery of patient	Medical Conditions Conscious level: disoriented/groggy Respiration: 24 Pulse: 135 Blood pressure: 152/82 Skin: warm/dry/normal color Pupils: unequal/ sluggish reaction to light Other: open cut on lower right arm bump/abrasion on forehead right ankle swollen an very painful

EMS treatment	Medical Conditions Conscious level: unchanged Respiration: 20 Pulse: 90 Blood pressure: 138/78 Skin: unchanged Pupils: unchanged Other: unchanged Radiological Conditions (if surveyed prior to transport) Wound on right arm: 2000 cpm Victim's right palm: 2000 cpm
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EMS transport	Medical Conditions Conscious level: unchanged Respiration: 18 Pulse: 84 Blood pressure: 138/78 Skin: unchanged Pupils: unchanged Other: unchanged
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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
	Wound on right arm: 2000 cpm
Victim's right palm: 2000 cpm	
=====	
After first decontamination	Radiological Conditions
	Wound on right arm: 500 cpm
	Victim's right palm: 1000 cpm
=====	
After second decontamination	Radiological Conditions
	Wound on right arm: 200 cpm
	Victim's palms: background
=====	
After third 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 ankle	
=====	

Termination: Termination message issued when authorized by Exercise Manager

END OF DRILL

MEDICAL SERVICES (MS-1) AMBULANE DRILL SCENARIO

MANITOWOC COUNTY

MANITOWOC FIRE DEPARTMENT EMERGENCY MEDICAL SERVICES

I. SCHEDULE

Date: December 5, 2006
Time: ~ 9:00 am
Location: County Highway Building (Reception Center)
3500 State Highway 310
Manitowoc, WI
Injury/Illness: Unconscious

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 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 drill begins with a simulated radiological release at the Point Beach Nuclear Power Plant. A member of the general population has evacuated his home and arrives at the Manitowoc Reception Center. The route driven by the victim was through the radioactive plume that resulted from the release. After arriving at the reception center and entering the building, the victim passes out prior to being monitored and remains unconscious.

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 simulated notification of the hospital has been completed.

V. SCENARIO

THIS IS A DRILL

DO NOT initiate actions affecting normal operations

<u>Scenario Phase</u>	<u>Controller Message/Notes</u>
EMS arrival	Medical Conditions Conscious level: unconscious Respiration: 24 Pulse: 100 Blood pressure: 160/90 Skin: normal Pupils: unreactive to light Other: unresponsive to verbal stimuli
In ambulance	Medical Conditions Conscious level: unchanged Respiration: 20 Pulse: 97 Blood pressure: 155/80 Skin: unchanged Pupils: unchanged Other: unchanged
Termination	Termination message issued when authorized by Exercise Manager

END OF DRILL