



Final Exercise Report

POINT BEACH NUCLEAR POWER PLANT

Licensee: Nuclear Management Company

Exercise Date: December 5, 2000

Report Date: March 19, 2001

FEDERAL EMERGENCY MANAGEMENT AGENCY
REGION V
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I. EXECUTIVE SUMMARY

On December 5, 2000, an exercise was conducted in the Plume Exposure Pathway Emergency Planning Zone (EPZ) around the Point Beach Nuclear Power Plant by the Federal Emergency Management Agency (FEMA), Region V. The purpose of the exercise was to assess the level of State and local preparedness in responding to a radiological emergency. This exercise also incorporated draft evaluation materials proposed for the "New Radiological Emergency Preparedness (REP) Exercises Evaluation Methodology," as defined by FEMA National Office. The same materials were also used in REP exercises in three other FEMA Regions (2, 3 and 7) as pilot tests of the new exercises evaluation methodology. The exercise was in accordance with the Federal Emergency Management Agency (FEMA's) policies and guidance concerning the exercise of State and local radiological emergency response plans (RERP) and procedures.

The most recent prior exercise at this site was conducted on November 3, 1998. The qualifying emergency preparedness exercise was conducted on March 9, 1982. FEMA wishes to acknowledge the efforts of the many individuals who participated in this exercise. In the State of Wisconsin the risk counties of Manitowoc and Kewaunee 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 report contains the final evaluation of the biennial exercise and the following out-of-sequence activities for the State of Wisconsin: (1) Reception Center and Evacuee Monitoring/Decontamination (2) Emergency Worker and Vehicle Monitoring and Decontamination; Kewaunee County: (1) Medical Services (MS-1) Drill - Patient Transportation and (2) Congregate Care Center. Manitowoc County did not have out of sequence demonstrations.

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 as a result of this exercise. One Area Requiring Corrective Action (ARCA) for Kewaunee County was identified under Criteria 5a1 - The primary Emergency Alert System (EAS) Radio Station, used to broadcasts messages to the public, did not have 24-hour coverage. There were no prior issues to be resolved during this exercise.

II. INTRODUCTION

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

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

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

Taking the lead in offsite emergency planning and in the review and evaluation of RERPs and procedures developed by State and local governments;

Determining whether such plans and procedures can be implemented on the basis of observation and evaluation of exercises of the plans and procedures conducted by State and local governments;

Responding to requests by the U.S. Nuclear Regulatory Commission (NRC) pursuant to the Memorandum of Understanding between the NRC and FEMA dated June 17, 1993 (Federal Register, Vol. 58, No. 176, September 14, 1993); and

Coordinating the activities of Federal agencies with responsibilities in the radiological emergency planning process:

- U.S. Department of Commerce
- U.S. Nuclear Regulatory Commission
- U.S. Environmental Protection Agency
- U.S. Department of Energy
- U.S. Department of Health and Human Services
- U.S. Department of Transportation
- U.S. Department of Agriculture
- U.S. Department of the Interior, and
- U.S. Food and Drug Administration.

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

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

FEMA Region V evaluated a REP Exercise on December 5, 2000 to assess the capabilities of State and local emergency preparedness organizations in implementing their RERPs and procedures to protect the public health and safety during a radiological emergency involving the Point Beach Nuclear Power Plant. The purpose of this exercise report is to present the exercise results and findings on the performance of the offsite response organizations (ORO) during a simulated radiological emergency.

The findings presented in this report are based on the evaluations of the Federal evaluator team, with final determinations made by the FEMA Region V RAC Chairperson, and approved by the Regional Director.

The criteria utilized in the FEMA evaluation process are contained in:

- L305 – *"Radiological Emergency Preparedness Exercise New Methodology Manual."*
- 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-REP-15, *Radiological Emergency Preparedness Exercise Evaluation Methodology, September 1991.*

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 a description of an ARCA assessed in Kewaunee County during this exercise, recommended corrective actions and the status of the offsite response organization's plans to resolve it.

III. EXERCISE OVERVIEW

Contained in this section are data and basic information relevant to the December 5, 2000, exercise to test the offsite emergency response capabilities in the area surrounding the Point Beach Nuclear Power Plant. This section of the exercise report includes a description of the plume and ingestion pathway EPZs, 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.

A. Plume Emergency Planning Zone Description

The Point Beach Nuclear Power Plant units one and two are located in east central Wisconsin on the west shore of Lake Michigan, about 30 miles southeast of the city of Green Bay and 90 miles north of Milwaukee. It is owned by the Nuclear Management Company and utilizes pressurized water reactors built by Westinghouse Corporation. The unit has an output capacity of 497 megawatts. The Unit began commercial operation in the winter of 1973.

The 10-mile plume pathway EPZ include Kewaunee and Manitowoc Counties with a total population of 22,700.

B. Ingestion Emergency Planning Zone Description

The State of Wisconsin Counties including Brown, Calumet, Door, Fond du Lac, Kewaunee, Manitowoc, Marinette, Oconto, Outagamie, Shawano, and Winnebago lie within the 50-mile ingestion exposure pathway. Recreational facilities include Point Beach State Park, Camp Manitou, and Camp Ta PaWingo. Recreational boating and water sports activities are prevalent during the summer along the Lake Michigan shoreline. According to the 1990 census report the total 50-mile exposure pathway population for planning use is 240,917, fluctuating in the summer months.

The nearest population centers of 25,000 people or more are, according to the 1990 census, the city of Manitowoc, 13 miles south southwest of the site with 32,547 people; Green Bay, 30 miles northwest of the site with 87,899 people; Appleton, 43 miles west of the site with 59,032, and Sheboygan, 36 miles south southwest of the site with 48,085 people. There are no other population centers greater than 25,000 people that lie within 50 miles of the site.

C. Exercise Participants

The following agencies, organizations, and units of government participated in the Point Beach Nuclear Power Plant exercise on December 5, 2000.

STATE OF WISCONSIN

- Governor's Office
- Department of Military Affairs
- Wisconsin Emergency Management
- Department of Health and Family Services
 - Radiation Protection Unit
- Department of Agriculture
- Department of Transportation
- Wisconsin Animal Health and Food Safety
- Wisconsin Department of Natural Resources
- Wisconsin Emergency Police
- Wisconsin Environmental Quality
- Wisconsin Resource Management
- Wisconsin State Highway Patrol

RISK JURISDICTIONS

MANITOWOC COUNTY

- County Board Chairperson
- County Emergency Management
- County Health Department
- County Fire and Rescue
- County Extension Agency
- County Human Services
- County Sheriff's Department
- County Highway Department
- Manitowoc School District

KEWAUNEE COUNTY

County Board Chairperson
County Emergency Management
County Health and Human Services
County Fire and Rescue
County Extension Agency
County Sheriff's Department
County Highway Department
City of Algoma Police Department

PRIVATE/VOLUNTEER ORGANIZATIONS

Nuclear Management Company
American Red Cross
Washington High School
Aurora Medical Center
Radio Amateur Civil Emergency Services

D. Exercise Timeline

Table 1, on the following page, presents the time at which key events and activities occurred during the Point Beach Nuclear Power Plant Exercise on December 5, 2000. Also included are times notifications were made to the participating jurisdictions/functional entities.

TABLE 1. EXERCISE TIMELINE

DATE AND SITE: December 5, 2000 Point Beach Nuclear PowerPlant

Emergency Classification Level or Event	Time Utility Declared	Time That Notification Was Received or Action Was Taken				
		Wisconsin State EOC	RAD ROOM	Kewaunee Co. EOC	Manitowoc Co. EOC	JPIC
Unusual Event	0757	0806	N/A	0813	0806	N/A
Alert	0853	0900	N/A	0900	0900	0905
Site Area Emergency	1032	1041	1040	1049	1041	1051
General Emergency	1156	1159	1204	1214	1216	1204
Rad. Release Started	1145	1156	1156	1211	1205	1145
Rad. Release Terminated	1345	1345	1345	1345	1345	1345
Facility Declared Operational		0940	0943	1000	1003	0930
Declaration of State of Emergency		1210	N/A	1210	1210	1210
Exercise Terminated		1356	1345	1345	1400	1400
Early Precautionary Actions: Livestock Advisory – Move Livestock to shelter and place them on stored feed and covered water.		1045	1045	1104	1103	1102
1st Protective Action Decision: Evac. 0-2 miles in all directions, 0-5 miles in sub-areas 2, 5N, 5W		1208	1200	1214	1216	1222
1st Siren Activation				1225	1225	
1st EAS/EBS Message				1225	1228	
2nd Protective Action Decision: Evacuate 0-5 mile radius, 5-10 miles in sub-areas 10w, 10nw, 10n		1256		1258	1255	1322
2nd Siren Activation				1325	1318	
2nd EBS/EAS Message				1325	1325	
KI Administration Decision: Emergency Workers in affected areas and institutionalized pop.		1208		1221	1238	1245

LENGEND: D - Decision Making Jurisdiction

A – Activating Jurisdiction

N/A – Not Applicable

Blank – Not Reported

IV. EXERCISE EVALUATION AND RESULTS

Contained in this section are the results and findings of the evaluation of all jurisdictions and functional entities, which participated in the December 5, 2000 exercise to test the offsite emergency response capabilities of State and local governments in the 10-mile Plume Pathway, surrounding the Point Beach Nuclear Power Plant.

Each jurisdiction and functional entity was evaluated on the basis of its demonstration of criteria delineated in the *Radiological Emergency Preparedness Exercise New Evaluation Methodology (objectives from FEMA-REP-14, September 1991)*. 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 - Table 2

The matrix presented in Table 2, on the following pages, presents the status of all exercise criteria from the *Radiological Emergency Preparedness Exercise New Evaluation Methodology (objectives from FEMA-REP-14)* that was scheduled for demonstration during this exercise at all participating jurisdictions and functional entities. Exercise criteria and the demonstration status of that criteria is indicated by the use of the following letters:

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

D - Deficiency assessed

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

N - Not Demonstrated (Reason explained in Subsection B)

DATE
December 5, 2000

SITE
Point Beach Nuclear
Power Plant

STATE OF WISCONSIN

	1a1	1b1	1c1	1d1	1e1	2a1	2b1	2b2	2c1	2d1	2e1	3a1	3b1	3c1	3c2	3d1	3d2	3e1	3e2	3f1	4a1	4a2	4a3	4b1	4c1	5a1	5a2	5a3	5b1	6a1	6b1	6c1	6d1
Initial Warning Point	M																																
Emergency Operations Center	M	M	M	M	M	M	M	M																		M							
State Radiological Coordinator Room			M		M	M	M	M																									
Joint Public Info Center (JPIC)	M	M		M																									M				
Media Rumor Control																																	
Aurora Med Center (Hosp)				M	M							M																					M
Emergency Worker/Evacuee Vehicle/Equip Monitor & Decontamination - Algoma HS					M							M																	M	M			
Emergency Worker/Evacuee Vehicle/Equip Monitor & Decontamination - Algoma HS		M		M	M							M																	M	M			
Emergency Worker/Evacuee Vehicle/Equip Monitor & Decontamination - Roncalli HS		M		M	M							M																	M	M			
Emergency Worker/Evacuee Monitor & Decontamination - Roncalli HS					M							M																		M	M		

M - Met No Deficiency or ARCAs Assessed and no Unresolved ARCAs from Prior Exercises
N - Not Demonstrated as Scheduled Reason Explained in Section IV.B

A - ARCAs Assessed or Unresolved ARCAs from Prior Exercises
Blank - Not Scheduled for Demonstration
D - Deficiency

TABLE 2

<div>DATE December 5, 2000</div> <div>SITE Point Beach Nuclear Power Plant</div>			
MANITOWOC COUNTY			
Sheriff's Warning Point	M		
Emergency Operations Center	M		
EV2 Interview - Washington HS			
Traffic & Access Control			
Joint Public Information Center			
Backup Route Alerting			
EAS/WOMT Radio Station			
MS - 1 Transportation - Roncalli HS			
Congregate Care Center - Univ of Wisc	M		
Reception Center Registration - Roncalli HS	M		
	M		
	M		
	M		
	M		

TABLE 2

DATE December 5, 2000		SITE Point Beach Nuclear Power Plant	
KEMAUNEE COUNTY			
Initial Warning Point	M	1a1	1b1
Emergency Operations Center	M	1c1	1d1
Traffic & Access Control	M	1e1	2a1
Joint Public Information Center	M	2b1	2c1
EAS/MBDK Radio Station	M	2d1	2e1
MS 1 - Trans - Algoma HS	M	3a1	3b1
Congregate Care Center - Algoma HS	M	3c1	3d1
Reception Center - Algoma HS	M	3e1	3f1
		4a1	4b1
		4c1	4d1
		4e1	4f1
		5a1	5b1
		5c1	5d1
		5e1	5f1
		6a1	6b1
		6c1	6d1
		6e1	6f1
		6g1	6h1
		6i1	6j1
		6k1	6l1
		6m1	6n1
		6o1	6p1
		6q1	6r1
		6s1	6t1
		6u1	6v1
		6w1	6x1
		6y1	6z1
		7a1	7b1
		7c1	7d1
		7e1	7f1
		7g1	7h1
		7i1	7j1
		7k1	7l1
		7m1	7n1
		7o1	7p1
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		14i1	14j1
		14k1	14l1
		14m1	14n1
		14o1	14p1
		14q1	14r1
		14s1	14t1
		14u1	14v1
		14w1	14x1
		14y1	14z1
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		15s1	15t1
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		28e1	28f1
		28g1	28h1
		28i1	28j1
		28k1	28l1
		28m1	28n1
		28o1	28p1
		28q1	28r1
		28s1	28t1
		28u1	28v1
		28w1	28x1
		28y1	28z1
		29a1	29b1
		29c1	29d1
		29e1	29f1
		29g1	29h1
		29i1	29j1
		29k1	29l1
		29m1	29n1
		29o1	29p1
		29q1	29r1
		29s1	29t1
		29u1	29v1
		29w1	29x1
		29y1	29z1
		30a1	30b1
		30c1	30d1
		30e1	30f1
		30g1	30h1
		30i1	30j1
		30k1	30l1
		30m1	30n1
		30o1	30p1
		30q1	30r1
		30s1	30t1
		30u1	30v1
		30w1	30x1
		30y1	30z1
		31a1	31b1
		31c1	31d1
		31e1	31f1
		31g1	31h1
		31i1	31j1
		31k1	31l1
		31m1	31n1
		31o1	31p1
		31q1	31r1
		31s1	31t1
		31u1	31v1
		31w1	31x1
		31y1	31z1
		32a1	32b1
		32c1	32d1
		32e1	32f1
		32g1	32h1
		32i1	32j1
		32k1	32l1
		32m1	32n1
		32o1	32p1
		32q1	32r1
		32s1	32t1
		32u1	32v1
		32w1	32x1
		32y1	32z1
		33a1	33b1
		33c1	33d1
		33e1	33f1
		33g1	33h1
		33i1	33j1
		33k1	33l1
		33m1	33n1
		33o1	33p1
		33q1	33r1
		33s1	33t1
		33u1	33v1
		33w1	33x1
		33y1	33z1
		34a1	34b1
		34c1	34d1
		34e1	34f1
		34g1	34h1
		34i1	34j1

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 is a definition of the terms used in this subsection relative to objective 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 objectives under which one or more Deficiencies was assessed during this exercise. Included is a description of each Deficiency and recommended corrective actions.
- **Area Requiring Corrective Actions** - Listing of the demonstrated exercise criteria under which one or more ARCAs were assessed during the current exercise or ARCAs assessed during prior exercises that remain unresolved. Included is a description of the ARCAs assessed during this exercise and the recommended corrective action to be demonstrated before or during the next biennial exercise.
- **Not Demonstrated** - Listing of the exercise objectives which were not demonstrated as scheduled during this exercise and the reason they were not demonstrated.
- **Prior Issues - Resolved** - Descriptions of ARCAs assessed during previous exercises which were resolved in this exercise and the corrective actions demonstrated.
- **Prior Issues - Unresolved** - Descriptions of ARCAs assessed during prior exercises which 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, which 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."

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

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

- **Plant Site Identifier** - A two-digit number, corresponding to the Utility Billable Plant Site Codes.
- **Exercise Year** - Last two-digits of the year the exercise was conducted.
- **Objective Number** - A two-digit number corresponding to the objective number in FEMA-REP-14
- **Issue Classification Identifier** - (D = Deficiency, A= ARCA). Only Deficiencies and ARCAs are included in exercise reports. Planning Issues are reported to the State via letter from the Regional Director. Therefore, standardized issue numbers are not assigned to Planning Issues.
- **Exercise Issue 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
 - a. MET: Criteria 1a1
 - 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 1a1, 1b1, 1c1, 1d1, 1e1, 2a1, 2b1, 2b2, 5a1, 5b1
 - 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 1c1, 1e1, 2a1, 2b1, 2b2
 - 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 JOINT PUBLIC INFORMATION CENTER (JPIC)

- a. MET: Criteria 1a1, 1b1, 1d1, 5b1
- 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 MEDIA RUMOR CONTROL

- a. MET: Criteria 5b1
- 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 AURORA MEDICAL CENTER (HOSPITAL)

- a. MET: Criteria 1d1, 1e1, 3a1, 6d1
- 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 EMERGENCY WORKER/EVACUEE VEHICLE/
EQUIPMENT MONITOR & DECONTAMINATION -
ALGOMA HS**

- a. MET: Criteria 1e1, 3a1, 6a1, 6b1
- 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 EVACUEE/EMERGENCY WORKER MONITOR &
DECONTAMINATION – ALGOMA HS**

- a. MET: Criteria 1b1, 1d1, 1e1, 3a1, 6a1, 6b1
- 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 EMERGENCY WORKER/EVACUEE VEHICLE/EQUIPMENT
MONITOR & DECONTAMINATION – RONCALLI HS**

- a. MET: Criteria 1b1, 1d1, 1e1, 3a1, 6a1, 6b1
- 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 EMERGENCY WORKER/EVACUEE MONITOR &
DECONTAMINATION – RONCALLI HS**

- a. MET: Criteria 1e1, 3a1, 6a1, 6b1
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION: NONE
- d. NOT DEMONSTRATED: NONE
- e. PRIOR ISSUES – RESOLVED: NONE
- f. PRIOR ISSUES – UNRESOLVED: NONE

2. RISK JURISDICTIONS

2.1 MANITOWOC COUNTY

2.1.1 SHERIFF'S WARNING POINT

- a. MET: Criteria 1a1
- 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 1a1, 1b1, 1c1, 1d1, 1e1, 2a1, 2b2, 2c1, 3a1, 3c1, 3d1, 3d2, 5a1, 5b1
- 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 EV2 INTERVIEW – WASHINGTON HIGH SCHOOL

a. MET: Criteria 1d1, 3a1, 3c2

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 TRAFFIC AND ACCESS CONTROL

a. MET: Criteria 1d1, 1e1, 3a1, 3b1, 3d1, 3d2

b. DEFICIENCY: NONE

c. AREAS REQUIRING CORRECTIVE ACTION: NONE

d. NOT DEMONSTRATED: NONE

e. PRIOR ISSUES - RESOLVED: NONE

f. PRIOR ISSUES - UNRESOLVED: NONE

2.1.5 JOINT PUBLIC INFORMATION CENTER (JPIC)

a. MET: Criteria 5b1

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 BACKUP ROUTE ALERTING

- a. MET: Criteria 3c1
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION: NONE
- d. NOT DEMONSTRATED: NONE
- e. PRIOR ISSUES - RESOLVED: NONE
- f. PRIOR ISSUES - UNRESOLVED: NONE

2.1.7 EAS/WOMT RADIO STATION

- a. MET: Criteria 5a1, 5b1
- 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 MS - 1 TRANSPORTATION - RONCALLI HIGH SCHOOL

- a. MET: Criteria 1d1, 1e1, 2a1, 3a1, 6d1
- 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 – UNIVERSITY OF WISCONSIN

- a. MET: Criteria 1b1, 1d1, 3a1, 6c1
- 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 RECEPTION CENTER REGISTRATION – RONCALLI HIGH SCHOOL

- a. MET: Criteria 1b1, 1d1, 1e1, 3a1, 6a1
- 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 KEWAUNEE COUNTY

2.2.1 INITIAL WARNING POINT

- a. MET: Criteria 1a1
- 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

2.2.2 EMERGENCY OPERATIONS CENTER

a. **Met:** Criteria 1a1, 1b1, 1c1, 1d1, 1e1, 2a1, 2b2, 2c1, 3a1, 3c1, 3d1, 3d2, 5b1

b. **DEFICIENCY:** NONE

c. **AREAS REQUIRING CORRECTIVE ACTION:** 5a1

Issue No: 49-00-5a1-A-01

Condition: The radio station used to issue Emergency Alert System (EAS)/Emergency Broadcast System (EBS) messages to the public did not have a 24-hour message dissemination capability.

Possible Cause: The station is not staffed 24 hours per day, 7 days per week.

Reference: NUREG 0654, F.1.a and B5

Effect: In the event of an incident taking place during non-staffed hours, there may be an undue delay in EAS/EBS messages being transmitted to the public in a timely fashion.

Recommendation: Identify and implement steps to insure that timely emergency notification(s) can be implemented to the public 24-hours, seven days a week.

State Response: A Memorandum of Understanding regarding the equipment, testing, maintenance and procedures for activating the EAS in the event of a nuclear power plant accident is currently being signed between Kewaunee County and Radio Station, WBDK. Kewaunee County has hired a consultant who will be evaluating and installing components for current equipment and other components on March 8, 2001 that will provide the capability to activate the EAS from inside the Emergency Operations Center (EOC) or remotely via a dial-in-number on a commercial telephone system.

2.2.3 TRAFFIC AND ACCESS CONTROL

a. **MET:** Criteria 1d1, 1e1, 3a1, 3b1, 3d1, 3d2

b. **DEFICIENCY:** NONE

c. **AREAS REQUIRING CORRECTIVE ACTION:** NONE

d. **NOT DEMONSTRATED:** NONE

e. **PRIOR ISSUES - RESOLVED:** NONE

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

2.2.4 JOINT PUBLIC INFORMATION CENTER

- a. MET: Criteria 5b1
- 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 EAS/WBDK RADIO STATION

- a. MET: Criteria 5a1, 5b1
- b. DEFICIENCY: NONE
- c. AREAS REQUIRING CORRECTIVE ACTION: NONE
- d. NOT DEMONSTRATED: NONE
- e. PRIOR ISSUES - RESOLVED: NONE
- f. PRIOR ISSUES - UNRESOLVED: NONE

2.2.6 MS - 1 TRANSPORTATION - ALGOMA HIGH SCHOOL

- a. MET: Criteria 1d1, 1e1, 2a1, 3a1, 6d1
- 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 CONGREGATE CARE CENTER

- a. MET: Criteria 1b1, 1d1, 3a1, 6c1
- 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 RECEPTION CENTER – ALGOMA HIGH SCHOOL

- a. MET: Criteria 1b1, 1d1, 1e1, 3a1, 6a1
- 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.

ACP	Access Control Point
AMA	American Medical Association
ANI	American Nuclear Insurers
ARC	American Red Cross
ARCA	Area Requiring Corrective Action
CCC	Congregate Care Center
CD-V	Civil Defense - Victoreen
CFR	Code of Federal Regulations
CPM	Counts Per Minute
DHHS	U.S. Department of Health and Human Services
DOC	U.S. Department of Commerce
DOE	U.S. Department of Energy
DOI	U.S. Department of the Interior
DOT	U.S. Department of Transportation
DRD	Direct Reading Dosimeter
EAL	Emergency Action Level
EAS	Emergency Alert System
EBS	Emergency Broadcast System
ECL	Emergency Classification Level
EEM	Exercise Evaluation Methodology
EOC	Emergency Operations Center
EOF	Emergency Operations Facility
EPA	U.S. Environmental Protection Agency
EPZ	Emergency Planning Zone
ETA	Estimated Time of Arrival
ETE	Evacuation Time Estimate
EWMDS	Emergency Worker Monitoring and Decontamination Station
FAA	Federal Aviation Agency
FCC	Federal Communications Commission
FDA	U.S. Food and Drug Administration
FEMA	Federal Emergency Management Agency
FR	Federal Register
FTC	Field Team Coordinator
ft/min	feet per minute
ft ³ /min	cubic feet per minute
GE	General Emergency
GM	Guidance Memorandum

IP	Implementing Procedure
JIC	Joint Information Center
JPIC	Joint Public Information Center
KI	Potassium Iodide
mR	milliroentgen
mR/h	milliroentgen per hour
NOAA	National Oceanic and Atmospheric Administration
NOUE	Notification of Unusual Event
NRC	U.S. Nuclear Regulatory Commission
NUREG-0654	NUREG-0654/FEMA-REP-1, Rev. 1, <i>"Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980</i>
NWS	National Weather Service
OEM	Office of Emergency Management
ORO	Offsite Response Organization
PAD	Protective Action Decision
PAG	Protective Action Guide
PAO	Public Affairs Official
PAR	Protective Action Recommendation
PIO	Public Information Officer
POR	Point Of Review
R	Roentgen
RAC	Regional Assistance Committee
RACES	Radio Amateur Civil Emergency Service
RC	Reception Center
REA	Radioactive Emergency Area
REM	Roentgen Equivalent Man
REP	Radiological Emergency Preparedness
RERP	Radiological Emergency Response Plan
R/h	Roentgen(s) per hour
RO	Radiological Officer
SAE	Site Area Emergency
SEOC	State Emergency Operations Center
TCP	Traffic Control Point
TDD	Telecommunications Device for the Deaf
TL	Team Leader
TLD	Thermoluminescent Dosimeter
UHF	Ultra High Frequency
USCG	U.S. Coast Guard
USDA	U.S. Department of Agriculture
VHF	Very High Frequency
WP	Warning Point

APPENDIX 2

EXERCISE EVALUATORS AND TEAM LEADERS

The following is a list of the personnel who evaluated the Point Beach Nuclear Power Plant Exercise on December 5, 2000. Evaluator Team Leaders are indicated by the letters "(TL)" after their names. The organization which each evaluator represents is indicated by the following abbreviations:

FEMA	- Federal Emergency Management Agency
ANL	- Argonne National Laboratory
ICF	- ICF Incorporated
USDA	- U.S. Department of Agriculture

<u>EVALUATION SITE</u>	<u>EVALUATOR</u>	<u>ORGANIZATION</u>
Regional Assistance Committee, Chairman	Woodie J. Curtis	FEMA
Exercise Director	Woodie J. Curtis	FEMA
WISCONSIN STATE EOC	William King (TL)	FEMA
	Richard Grundstrom	ICF
	Harry Harrison	ANL
	Bill Lueders	ANL
	Joseph Austin	ANL
	Ron Graham	USDA
	Richard Echavarria	FEMA
MANITOWOC COUNTY EOC	Terri Connors-Murphy (TL)	FEMA
	Bruce Pfaff	FEMA
	Les Poch	ANL
	Bill Lueders	ANL
	Kevin Flynn	ANL
	Brian Murphy	FEMA
	Pat Tenorio	FEMA
	Carolyn Sturghill	FEMA

KEWAUNEE COUNTY EOC

Clinton Crackel
Cleven Lloyd
Gary Naskrent
Bill Lueders
Sue Ann Curtis

FEMA
FEMA
FEMA
ANL
ANL

APPENDIX 3

EXERCISE CRITERIA AND EXTENT-OF-PLAY AGREEMENT

This appendix lists the exercise Criteria that was scheduled for demonstration in the Point Beach Nuclear Power Plant exercise on December 5, 2000 and the extent-of-play agreement approved by FEMA Region V on November 27, 2000.

The exercise Criteria, contained in "Radiological Emergency Preparedness Exercise New Methodology 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 Criteria is intended for use at all nuclear power plant sites, and because of variations among offsite plans and procedures, an extent-of-play agreement is prepared by the State and approved by FEMA to provide evaluators with guidance on expected actual demonstration of the Criteria.

A. Exercise Criteria

Listed below is the specific radiological emergency preparedness Criteria scheduled for demonstration during this exercise.

Point Beach Nuclear Power Plant Exercise Extent of Play Agreement

The exercise will take place on December 5, 2000. The State of Wisconsin, Kewaunee County and Manitowoc County will be the off-site response organizations (OROs).

Manitowoc County will participate in a demonstration of a fast-breaking scenario (Criterion 5.a.2). This demonstration will occur on December 4, 2000 in the Manitowoc County Public Safety Joint Services Center located at 1025 S. 9th St., Manitowoc, WI at 4:30 p.m. The demonstration will not be evaluated for credit; it is being done to test the new FEMA evaluation criterion in this area.

EVALUATION AREA 1 – EMERGENCY OPERATIONS MANAGEMENT

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

State of Wisconsin

This will be a full participation plume exercise. However, the state radiological assessment field teams and mobile lab will not be deployed for this exercise. They participated with the Prairie Island Nuclear Generating Station Exercise on September 13, 2000. All activities, including radiological control/dose assessment, will occur at the State Emergency Operations Center (SEOC) at 2400 Wright Street Madison, WI. The SEOC will not be secured for this exercise.

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 not use the Standing Operating Procedure for activation but instead will use a call list designed for this exercise. All staff from state agencies that are participating in this exercise will receive calls in their offices and move to the SEOC from there.

Pre-positioned staff for this exercise will be:

The State Emergency Police Services Director will be pre-positioned at the SEOC in Madison. This position will begin play at the time the SEOC is activated.

Wisconsin Emergency Management Regional Directors will be pre-positioned at the Kewaunee and Manitowoc County EOCs. These positions will begin play at the time the County EOCs are activated.

State Joint Public Information Center (JPIC) staff will be pre-positioned for the exercise and will be contacted to report to their duty stations at the appropriate time during the exercise per the scenario. The JPIC is located at 700 North Adams Street, Green Bay, WI.

Kewaunee County

Activities will occur at various sites around Kewaunee County. The base of operations will be the Kewaunee County Emergency Operations Center, which is located in the lower level of the Algoma City Hall, 416 Fremont St. Algoma, WI. Alerting and staff call-up procedures will be completed as outlined in Tab B of the Kewaunee County plan.

Manitowoc County

Activities will occur at various sites around Manitowoc County. The base of operations will be the Manitowoc County Emergency Operations Center, which is located in the lower level conference rooms at 1025 S. 9th Street, Manitowoc, WI. Alerting and staff call-up procedures will be completed as outlined in Tab B of the Manitowoc County plan.

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

State of Wisconsin, Kewaunee County, Manitowoc County

This criterion will not be demonstrated since there have been no substantial changes in the structure or mission of the facilities utilized by the SEOC staff.

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

State of Wisconsin

The state will demonstrate decision-making capabilities in the SEOC. The state will demonstrate coordination between the SEOC, the JPIC, Kewaunee and Manitowoc County EOCs and the Wisconsin Electric Power Company (WEPCo). Staff will simulate situation updates and changes in Emergency Classification Levels (ECLs) to the ingestion counties once.

Kewaunee County, Manitowoc County

The County EOC will direct and control emergency operations within the county and will coordinate decisions and emergency activities with the State, the other Risk County and the JPIC.

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

State of Wisconsin, Kewaunee County, Manitowoc County

This criterion will not be demonstrated since there have been no substantial changes in the structure or mission of the communications equipment utilized.

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

State of Wisconsin

The state will demonstrate the use of equipment, maps and displays to support emergency operations. The state will not demonstrate the use of dosimetry and potassium iodide supplies since the state field teams will not be participating.

Kewaunee County

Kewaunee County will adequately demonstrate its ability to support operations through the use of maps, status boards and other displays as appropriate. Some county emergency worker dosimetry kits will be pre-distributed and the remainder will be distributed at Algoma High School in the City of Algoma.

Manitowoc County

Manitowoc County will demonstrate the use of equipment, maps and displays to support emergency operations. Some county emergency worker dosimetry kits will be pre-distributed and the remainder will be distributed at Roncalli High School in the City of Manitowoc.

EVALUATION AREA 2 – PROTECTIVE ACTION DECISION MAKING

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

State of Wisconsin

The SRC, based on his/her technical evaluation of the available data, will make recommendations for the ingestion of KI to the Kewaunee and Manitowoc County Radiation Officers.

Kewaunee County, Manitowoc County

Each county's Radiation Officer will receive recommendations for the ingestion of KI from the SRC and will make his/her recommendation to the Officer in Charge of the County EOC. The County Radiation Officer will also evaluate requests from public safety officials who request an exception to worker exposure limits and make a recommendation to the County OIC regarding the request.

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

State of Wisconsin

The SRC will evaluate the licensee information and complete independent dose projections based on that information and simulated field monitoring data.

The SRC will make an evaluation of the data and make a protective action recommendation to the Governor or his/her designee.

Kewaunee County, Manitowoc County

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

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

State of Wisconsin

The Governor or his/her 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/her 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 Wisconsin Radiological Incident Response Plan (WRIRP) directs that KI not be made available to the general public.

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.

Any evacuation orders will be coordinated with the State EOC and the other risk county before issuance. Decisions regarding the distribution of KI to institutionalized individuals will be made when emergency workers are ordered to ingest KI. Per the WRIRP, KI will not be made available to the general public.

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

State of Wisconsin

This criterion will not be demonstrated since state emergency workers (i.e., field teams) will not be activated for this exercise. PADs for other special populations are determined by the counties.

Kewaunee County, Manitowoc County

Kewaunee County will demonstrate the ability and resources to implement appropriate protective actions.

The County EOC staff will use a computerized list of people with special transportation needs and will simulate providing evacuation assistance.

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

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

Criterion 2.e.1: Timely re-location, re-entry and return decisions are made and coordinated as appropriate, based on assessments of the radiological conditions and criteria in the ORO's 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: 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 not be demonstrated since state emergency workers (i.e., 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. 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. Kewaunee County will distribute dosimetry at the Annex Building, 510 Kilbourn, Kewaunee, WI.

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

State of Wisconsin

This criterion will not be demonstrated since state emergency workers (i.e., field teams) will not be activated for this exercise.

Kewaunee County, Manitowoc County

Each county emergency worker dosimetry kit contains a TLD, pencil dosimeters, KI, instructions and a form for recording dosimetry readings and KI ingestion. For exercising purposes, a faux KI tablet will be used. These kits will be issued from and returned to the reception center (Manitowoc County) or the Annex (Kewaunee County) before assuming/completing shift duties.

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

State of Wisconsin

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

Kewaunee County, Manitowoc County

This criterion will not be demonstrated in this exercise.

Criterion 3.c.2: 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 since there are no schools in the 10-mile EPZ.

Manitowoc County

Manitowoc County will simulate the evacuation of a school by conducting an interview with key school staff members. The specific school will be determined at a later date and will be driven by the exercise scenario.

Criterion 3.d.1: 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 one location that will be designated prior to the exercise or as a result of play. Evaluators will be informed of the

location and timing of this demonstration in the County EOC at the pre-exercise briefing the day before the exercise. A county escort will be made available.

Criterion 3.d.2: 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 their County EOC the capability to identify and take appropriate actions concerning impediments to evacuation. Actual resources will not be dispatched but simulated contacts will be logged.

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

State of Wisconsin, Kewaunee County, Manitowoc County

This criterion will not be demonstrated in this exercise.

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

State of Wisconsin, Kewaunee County, Manitowoc County

This criterion will not be demonstrated in this exercise.

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

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 County

This criterion will not be demonstrated since state emergency workers (i.e., 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: Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized off-site emergency officials to notify the public of an emergency situation. The initial instructional message to the public must include:

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

State of Wisconsin

After the appropriate protective action decisions have been made, the state will select the appropriate Pre-scripted EAS Messages, which include all of the four listed required elements, and Special News Broadcasts that accurately reflect PADs to demonstrate this objective and transmit them to Kewaunee and Manitowoc Counties.

Kewaunee County

Kewaunee County will growl its sirens. The county will transmit a pre-scripted EAS message and Special News Broadcast to WBDK - Radio. 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. 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 and send a EAS message to WOMT – Radio using the county local EBS for the first PAR message of the exercise. The county will transmit a pre-scripted EAS message and Special News Broadcast to WOMT. The station will simulate the broadcast of both messages. The county will provide recent successful siren test evidence to the federal evaluator. An aircraft mounted public address system is used to provide back-up to the siren system if weather permits and to provide warning notification for boaters on Lake Michigan.

WOMT – Radio Station will have staff available for interview during the exercise. A county escort will be available upon request.

The aircraft mounted public address system will be demonstrated unless adverse weather conditions prohibit.

Criterion 5.a.2: 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 and message Identification of the commercial nuclear power plant and a statement that an emergency situation exists at the plant.
2. Reference to REP-specific emergency information (e.g., brochures and information in telephone books) for use by the general public during an emergency.
3. A closing statement asking the affected and potentially affected population to stay tuned for additional information.
4. 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

This criterion will not be demonstrated.

Kewaunee County

This criterion will not be demonstrated.

Manitowoc County

Manitowoc County will participate in a demonstration of a fast-breaking scenario. This demonstration will occur on December 4, 2000 in the Manitowoc County Public Safety Joint Services Center located at 1025 S. 9th St., Manitowoc, WI at 4:30 p.m. The demonstration will not be evaluated for credit; it is being done to test the new FEMA evaluation criterion in this area.

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

State of Wisconsin

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

Kewaunee County, Manitowoc County

There are no FEMA approved exception areas in either county. Neither county plans to demonstrate this criteria. If an unforeseen problem occurs with the siren system, the appropriate county/ies will demonstrate the back-up alerting procedures.

Criterion 5.b.1: 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 ability to coordinate the formulation and dissemination of accurate information and instructions including the Special News Broadcasts to the news media at the JPIC. The State of Wisconsin PIOs in the JPIC will coordinate with the State EOC and PIOs from the counties and utility to ensure that 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 JPIC. Rumor control will be handled by the utility's phone bank.

Kewaunee County, Manitowoc County

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

EVALUATION AREA 6 – SUPPORT OPERATION/FACILITIES

Criterion 6.a.1: The reception center/emergency worker facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees and/or emergency workers.

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 Wisconsin Reception Center Plan. Manitowoc County will have six monitoring stations and Kewaunee County will have two.

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 health teams do not use calibrated check sources. The instruments are calibrated annually by a certified calibration facility. The 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 frisked several evacuees to establish flow, at least six evacuees will be monitored and registered with one evacuee requiring decontamination. Kewaunee County may

demonstrate this objective with the use of portal monitors. Two vehicles will be monitored and one will be decontaminated at each location to meet this objective.

Kewaunee County

Kewaunee County will demonstrate this criterion out of sequence on December 4, 2000 from 1800-2000 at the Algoma High School, 1715 Division, Algoma, WI. Kewaunee County is responsible for registering evacuees and assigning them to appropriate congregate care facilities.

Manitowoc County

Manitowoc County will demonstrate this criterion in sequence at Roncalli High School, 2000 Mirro Drive, Manitowoc, WI. Manitowoc County is responsible for registering evacuees and assigning them to appropriate congregate care facilities. Only one half of the monitoring center (gym) will be demonstrated (i.e., only one shower facility opened). There will be an administrative time-out to provide lunch to the evacuee players (senior citizen volunteers) before evacuee will be bused to the congregate care center to demonstrate Criterion 6.c.1.

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

State of Wisconsin

Health monitoring teams will demonstrate this criterion at both the Kewaunee County Reception Center (i.e., Algoma High School) and the Manitowoc County Reception Center (i.e., Roncalli High School) at the same time as the reception centers are opened for the demonstration of other criteria. Players in the reception center will not be designated as emergency workers since the monitoring and decontamination procedures for emergency workers are exactly the same as for the general public except for the fact that emergency workers have "head of the line" privileges. The teams will demonstrate the monitoring and decontamination of emergency vehicles using the same procedures as used for the vehicles belonging to evacuees.

Kewaunee County, Manitowoc County

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

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

State of Wisconsin

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

Kewaunee County

Kewaunee County will demonstrate this criterion by opening a congregate care center following the reception center demonstration on December 4, 2000. The congregate care center will be in the lunchroom of the Algoma High School.

Manitowoc County

Manitowoc County will demonstrate this criterion by opening a congregate care center following the reception center demonstration at Roncalli High School. The location has yet to be determined.

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

State of Wisconsin

The MS-1 hospital drill will be held at the Aurora Medical Center, 5000 Memorial Drive, Two Rivers, WI out of sequence (date and time TBD). The hospital will demonstrate all of the appropriate procedures. The route will not be driven. Communication between the hospital and ambulance will be demonstrated by interview with the players. A person with simulated contamination and injury will be prepared for transport by controller staff and loaded into a local ambulance. That local ambulance will simulate one of the ambulances that would come from county reception centers.

Kewaunee County

The transportation section of the drill will be demonstrated out of sequence at the Kewaunee County Reception Center (i.e., Algoma High School) on December 4, 2000 between 1800-2000. The ambulance crew (specific agency to be determined at a later date) will prepare contaminated injured (simulated) person for transport to a hospital however transport will be simulated. County ambulance crews will be prepared to brief the evaluators as to the route to the hospital and unloading procedures but will not be required to drive the route. Ambulance crews 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 (i.e., Roncalli High School) on December 5, 2000. Unified Ambulance Service will prepare contaminated injured (simulated) person for transport to a hospital however transport will be simulated. County ambulance crews will be prepared to brief the evaluators as to the route to the hospital and

unloading procedures but will not be required to drive the route. Ambulance crews will be issued dosimetry in accordance with the plan.

Demonstrate the capability to develop dose projections and protective action recommendations regarding evacuation and sheltering.

The extent-of-play agreement on the following pages was submitted by the State of Wisconsin and was approved by FEMA Region V on November 27, 2000, in preparation for the December 5, 2000 Point Beach Nuclear Power Plant exercise.

The extent-of-play agreement includes any significant modification or change in the level of demonstration of each exercise Criteria listed in Subsection A of this appendix.

Scenario Timeline -

<i>Time</i>	<i>ID# To</i>	<i>Subject</i>
7:00	1 Control Room	Commence Drill - INFORMATION ONLY
7:30	2 Control Room	Unit 1 - #3 governor valve fails shut causing a turbine runback
7:35	3 Control Room	Failed Fuel Monitor (1RE-109) alarms due to a crud burst
7:50	4 Control Room	Unusual Event Declared at the plant
8:00	22 Duty Officer	Plant notifies about the Unusual Event declaration
8:05	123 All	WEM DO notifies of NUE
8:45	5 Control Room	1RE-109 alarms, exceeds 600 mR/hr and levels off ~780 mR/hr
9:00	6 Control Room	Alert event declared at the plant
9:01	11 All	Activate JPIC
9:01	7 Control Room	Activate emergency response groups at the plant - INFORMATION ONLY
9:10	23 Duty Officer	Plant notifies about the Alert declaration
9:15	124 All	WEM DO notifies of Alert
9:25	27 Decision makers	Activate EOCs at the ALERT level.
9:30	78 Controller	State and County PIOs arrive at the JPIC to begin set-up/play

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<i>Time</i>	<i>ID# To</i>	<i>Subject</i>
9:58	59 SEOC RACES	Weather Report
10:00	79 Controller	The JPIC should be operational.
10:08	69 JPIC	Footage of the plant
10:10	51 Kewaunee Co Sheriff	Daughter at home alone.
10:12	52 Manitowoc Co Sheriff	Daughter at home alone.
10:13	49 K Co Board Chairperson	Pep rally and game
10:15	65 Controllers	EOCs should be operational.
10:15	50 M Co Board Chairperson	Pep rally and game
10:16	45 Kewaunee Co Public Health	Is my mother safe? (via TDD)
10:18	108 M Co. Board Chairperson	Status report/need assistance
10:18	107 K Co. Board Chairperson	Status report/need assistance
10:20	46 Manitowoc Co Public Health	Is my mother safe? (via TDD)
10:20	12 Control Room	S/G - "A" tube rupture, leak rate of 150 gpm
10:20	125 All	DHFS FOC/MRL & field teams on stand-by
10:23	56 M Co Board Chairperson	WACKOS Convention

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<i>Time</i>	<i>ID# To</i>	<i>Subject</i>
10:25	60 K Co. RACES	Weather Report
10:26	61 M Co. RACES	Weather Report
10:30	32 American Red Cross	Donated Food
10:33	33 American Red Cross	Donated Food
10:35	13 Control Room	Site Area Emergency is declared at the plant
10:37	109 M Co. Board Chairperson	Status report/need assistance
10:40	126 FOC/MRL	SRC dispatches field teams
10:40	14 Control Room	Breaker (1B52-5B) trips causing the loss of 1B02
10:41	29 Kewaunee Co Agric. Rep.	How long can my family stay in the radiation?
10:43	28 Manitowoc Co. Agric. Rep.	How long can my family stay in the radiation?
10:44	53 JPIC	Donated clothing
10:46	70 Kewaunee Co. Fire	There is a natural gas leak at the Algoma Medical Center & Long Term Care Unit Facilities.
10:47	54 Kewaunee Co PIO	Donated diapers
10:49	71 Kewaunee Co. Fire	Fire at the Algoma Medical Ctr.
10:50	58 OPS Officer	WACKOS convention (State)

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<i>Time</i>	<i>ID# To</i>	<i>Subject</i>
10:53	55 Manitowoc Co PIO	Donated bottled water
10:55	101 M Co. Board Chairperson	Status report/need assistance
10:58	103 K Co. Board Chairperson	Status report/need assistance
11:00	72 Kewaunee Co. Fire	Traffic Control
11:00	15 Control Room	P-38 B trips on overcurrent
11:00	105 OIC	Status report/need assistance
11:02	76 Kewaunee Co PIO	Escort to fire scene for media.
11:04	42 Manitowoc Co Sheriff	People chained to trees
11:07	73 Kewaunee Co Fire	Missing resident
11:08	112 JPIC	Set-up an interview for the show
11:09	43 DNR	Young people chained to trees
11:10	127 SRC	Field data to SRC
11:11	74 Kewaunee Co Fire	Missing resident spotted
11:13	47 Manitowoc Co Sheriff	Report in from Cty O & V
11:15	81 Manitowoc Co. Ag	Can I use feed from silage bags?

<i>Time</i>	<i>ID# To</i>	<i>Subject</i>
11:18	75 Kewaunee Co Public Health	Social Services Support
11:19	97 DHFS	Greenpeace Independent radiological monitors
11:20	77 JPIC	Confirm Injuries and deaths.
11:21	86 Manitowoc Co Sheriff	What to do with the protestor's children?
11:24	44 JPIC	Protestors chained to trees
11:25	115 Kewaunee Co Fire	Status Update
11:28	106 OIC	Status report/need assistance
11:31	116 OPS Officer	Upcoming festival
11:34	118 PSC	Need status of power availability
11:36	83 Manitowoc Co. Ag	A man just tried to sell me radiation pills for my herd.
11:38	82 Kewaunee Co. Ag	A man just tried to sell me radiation pills for my herd.
11:40	17 Control Room	Radioactive release from "A" S/G unisolable steam leak
11:40	120 DHFS	Evacuate pregnant women
11:40	16 Control Room	Failure of valve 1CS-466AA causes an unisolable Steam Leak
11:40	57 K Co Boad Chairperson	American Legion Annual Dinner

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<i>Time</i>	<i>ID# To</i>	<i>Subject</i>
11:42	48 M Co Sheriff	Radical animal rights group is blocking the evacuation routes
11:44	121 M CO Public Health	Evacuate pregnant women & children now?
11:46	88 OPS Officer	Student Protestors coming to SEOC
11:48	114 Manitowoc Co. Sheriff	Status Update re: PETA protestors
11:50	84 Kewaunee Co Ag	How do I protect my apiary?
11:50	80 Kewaunee Co. Ag	Can I use feed from silage bags?
11:52	117 OIC	Who is going to pay?
11:54	85 Manitowoc Co Ag	How do I protect my apiary?
11:55	18 Control Room	General Emergency is declared at the plant
11:57	122 OPS Officer	Volunteer to help in disaster
11:59	89 State PIO	March on building
12:05	67 Controllers	PAR discussion
12:13	90 Governor's Representative	Request for statement regarding protestors.
12:15	128 SRC	Field data to SRC
12:15	93 DATCP	Deer carcass outside

<i>Time</i>	<i>ID# To</i>	<i>Subject</i>
12:18	92 JPIC	Military to quell student protests
12:19	95 DHFS	Radiation Sickness
12:20	129 SRC	KI recommendation
12:20	113 Manitowoc Co. Public Health	Dog at the reception center
12:22	30 Kewaunee Co. Agric. Rep.	Can I accept milk from trucks coming through the radiation?
12:24	31 Manitowoc Co. Agric. Rep.	Can I accept milk from trucks coming through the radiation?
12:28	102 Manitowoc Co PIO	Rep. Petri wants to visit
12:30	104 Kewaunee Co PIO	Rep. Green wants to visit
12:30	66 Controllers	Siren sounding.
12:35	19 All	Change in meteorological conditions
12:37	100 Governor's Representative	New marketing campaign (WI Dept. of Tourism)
12:39	119 State PIO	State of Emergency
12:40	20 Control Room	Release Termination
12:40	36 Kewaunee Co. Sheriff	Armed man Cty AB and Hwy 29
12:42	68 M Co Reception Ctr Coordinato	Reception Center phones DO NOT work

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<i>Time</i>	<i>ID# To</i>	<i>Subject</i>
12:42	37 National Guard	Military Action (re: armed man in Kewaunee Co)
12:44	39 Kewaunee Co. Sheriff	Report in from Cty AB & Hwy 29
12:46	38 JPIC	Who is responding to the militia men?
12:46	40 JPIC	Wisconsin militia movement has shot evacuees
12:48	41 OIC	News report of Wisconsin militia blockade
12:49	62 OIC	Reception Center Numbers from Manitowoc County
12:51	96 DATCP	Food holds/embargoes
12:52	87 JPIC	Interview with victims.
12:54	110 JPIC	Reception Center moving
13:15	130 Controllers	Terminate the Exercise
14:00	21 Control Room	Exercise terminated at the plant - INFORMATION ONLY

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