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EMERGENCY PLAN IMPLEMENTING PROCEDURES
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WISCONSIN PUBLIC SERVICE CORPORATION	NO. EP-ENV-1	REV. G
KEWAUNEE NUCLEAR POWER PLANT	TITLE: ENVIRONMENTAL TEAM ORGANIZATION AND RESPONSIBILITIES	
EMERGENCY PLAN IMPLEMENTING PROCEDURE	DATE: APR 14 1986	PAGE 1 of 7

REVIEWED BY: Stephen A Ben[illegible] APPROVED BY: [signature]

1.0 PURPOSE

1.1 This procedure describes the organization of the Environmental Monitoring Team and the responsibilities of the Environmental Protection Director (EPD) and those emergency response personnel under the direction of the EPD.

2.0 APPLICABILITY

2.1 This procedure applies to those emergency response personnel that are members of the Environmental Monitoring Team and will be activated during an alert, site emergency, general emergency or when deemed necessary by the Emergency Director (ED) or the emergency response manager (ERM).

3.0 REFERENCES

3.1 KNPP Emergency Plan (Appendix D: Letters of Agreement)

3.2 EP-AD-11, Emergency Radiation Controls

3.3 EP-EOF-1, Corporate Staff Emergency Response Organization

3.4 EP-RET-1, Radiation Emergency Team Organization

3.5 EP-Appendix A, Communications

4.0 DEFINITIONS

4.1 Off-Site - The area beyond the site boundary of the Kewaunee Nuclear Power Plant

4.2 Site Boundary - The area approximately 1 mile north to Sandy Bay Road, 1 mile south to Herman Road and 3/4 mile west on Nuclear Road (Kewaunee Co.) to the Site Access Facility (SAF).

4.3 Site - The area extending from the Protected Area (fenced-in region around the plant itself) to the Site Boundary.

4.4 Environmental Sampling - Air activity and surface contamination as well as water, snow, soil, vegetation and milk samples taken to aid in accident assessment and impact on the public due to accidental releases of radioactive effluents.

5.0 PRECAUTIONS

5.1 Field Team Members are to wear a full set of Anti-C clothing and a full faced respirator with particulate canister whenever the members depart the SAF for field work and until it is shown by sample analysis that the equipment is not necessary.

5.2 Inspect all protective clothing and respirators for physical damage prior to its use in the field.

5.3 Field Teams will not enter a general radiation area which has levels of greater than 500 mR/hr, except on specific direction from the EPD. If this level is observed, fall back to an area less than 100 mR/hr and call the EM Team Coordinator with this information.

5.4 The EPD (or RPD) must be contacted immediately after a Field Team Member dose level reaches 1000 mREM.

5.5 All environmental samples and records shall be retained.

6.0 OBJECTIVE

The objective of the Environmental Monitoring Group is to provide timely protective action recommendations to the Emergency Response Manager. These protective action recommendations will be made using plant and field data and radiological dose projections. To achieve this objective, data collection will be affected using the following techniques in the order presented.

1) Total integrated radiation doses will be projected based on information provided by plant sources if such information is available. This information will include meteorological and radiological release data.

2) The boundaries of a radioactive spill or plume will be identified by the EMTs, to determine the total area affected.

3) The severity of the radioactive spill or plume will be assessed using portable instrumentation in the field. Specifically, whole body dose rates will be determined.

4) Field measurements will be made to determine if radio-iodine is present in any gaseous release from the plant.

5) Various sampling techniques will be employed so that the specific radiological constituents of the plume or spill may be determined through laboratory analysis.

7.0 RESPONSIBILITIES

7.1 The Environmental Protection Director is responsible for the following areas:

a. Overall direction of the Environmental Monitoring Group's activities.

b. Evaluating dose projections and field data.

c. Preparation of protective action recommendations in conjunction with the Emergency Response Manager, the Emergency Director and the Radiological Protection Director.

d. Preparing plant status updates for transmission to the Environmental Monitoring Teams.

e. Maintaining an overall awareness of environmental consequences and the contributing factors of those consequences.

f. Establishing and maintaining communications (as necessary) with other WPSC emergency facilities and directors, local county, state and federal agencies.

g. Maintaining a record of significant events, data reported and directives given.

h. Informing the RPD when an EMT member approaches administrative or legal exposure limits.

i. Establishing the Environmental Team Organization as necessary in accordance with ENV 1.1.

j. The calculated source term (i.e. from the IBM-PC projection) should be passed on to the State Radiological Coordinator. This information should be passed on as uCi/Sec.

7.2 The Assistant Environmental Protection Director is responsible for the following areas:

a. Implementing the directives given by the EPD and keeping the EPD informed of progress.

b. Provide guidance and direction to the ENV Calculator, the EMT Coordinator, and the EPD Communicator.

c. To assemble and assess all data (i.e. meteorological data and radiological data) being received to allow the EPD to make an effective evaluation of that data.

d. Ensuring that the EPZ grid map is maintained and current.

e. Serve as the liaison between WPSC and the Wisconsin State Radiological Coordinator.

7.3 The Environmental Calculator is responsible for the following areas:

a. Preparing radiological dose projections as directed by the Assistant EPD.

b. Record radiological dose projections on EPZ grid maps to allow for correlation with the primary EPZ grid map displaying actual field data.

c. Assist and be prepared to substitute for the EPD assistant as required.

7.4 The Environmental Monitoring Team Coordinator is responsible for the following areas:

a. Obtaining current meteorological data and providing that data to the Environmental Monitoring Teams.

b. Providing direction to the Environmental Monitoring Teams by preparing, in a timely manner, clear, concise, written orders for each Environmental Monitoring Team based on the direction received from the Assistant Environmental Protection Director.

c. Monitoring and tracking cumulative doses of each Environmental Team member using FORM ENV-2.3, "EM Field Team Dosimeter Reading Tracking Log", and informing the EPD if any member has exceeded 1000 mR whole body.

d. Ensuring that all data received from the Environmental Monitoring Team is provided to the Assistant Environmental Protection Director in a timely manner.

e. Ensuring that the Environmental Monitoring Teams perform in accordance with all established procedures and guidelines.

f. Providing assistance to the Assistant Environmental Protection Director as required.

7.5 The EOF/RAF Liaison is responsible for the following areas:

a. Ensuring that the Site Access Facility is activated in accordance with EP-ENV-2, "SAF Activation for EM Teams."

b. After activation of the EM Teams, this individual will relocate to the RAF and help control the receipt and transmission of data between the EOF and RAF.

c. Reporting sample analyses results to the Assistant EPD as they become available and in a timely manner.

d. Reporting to the Radiological Protection Director until the EOF has been activated.

7.6 The Environmental Monitoring Team Members are responsible for the following areas:

a. Quickly organizing into one, two or three EMTs consisting of at least three individuals each and assigning a letter designation (A, B or C) to each team. Each team shall have a designated leader.

b. Assisting the EOF/RAF Liaison with SAF activation in accordance with EP-ENV-2, "SAF Activation for EM Teams".

c. Assembling, inventorying (if required) and operationally checking the necessary equipment in accordance with Form ENV-2.1, "Environmental Monitoring Team Equipment."

d. Using personal vehicles for transporation during data and sample acquisition until company vehicles can be provided.

e. Ensuring that all EMT members have been issued both high and low range pocket dosimeters and monitoring their personal radiation exposure level.

f. Performing all EP-ENV-4 series procedures as directed by the Environmental Monitoring Team Coordinator.

g. Reporting all environmental data and information to one of the following individuals in the order listed and as available:

- EM Team Coordinator
- Assistant EPD
- Environmental Protection Director
- Radiological Protection Director
- Emergency Response Manager
- Emergency Director

h. Returning all acquired environmental samples to the SAF.

i. Observing all radiological controls implemented by the SRET.

j. Replenishing supplies as needed.

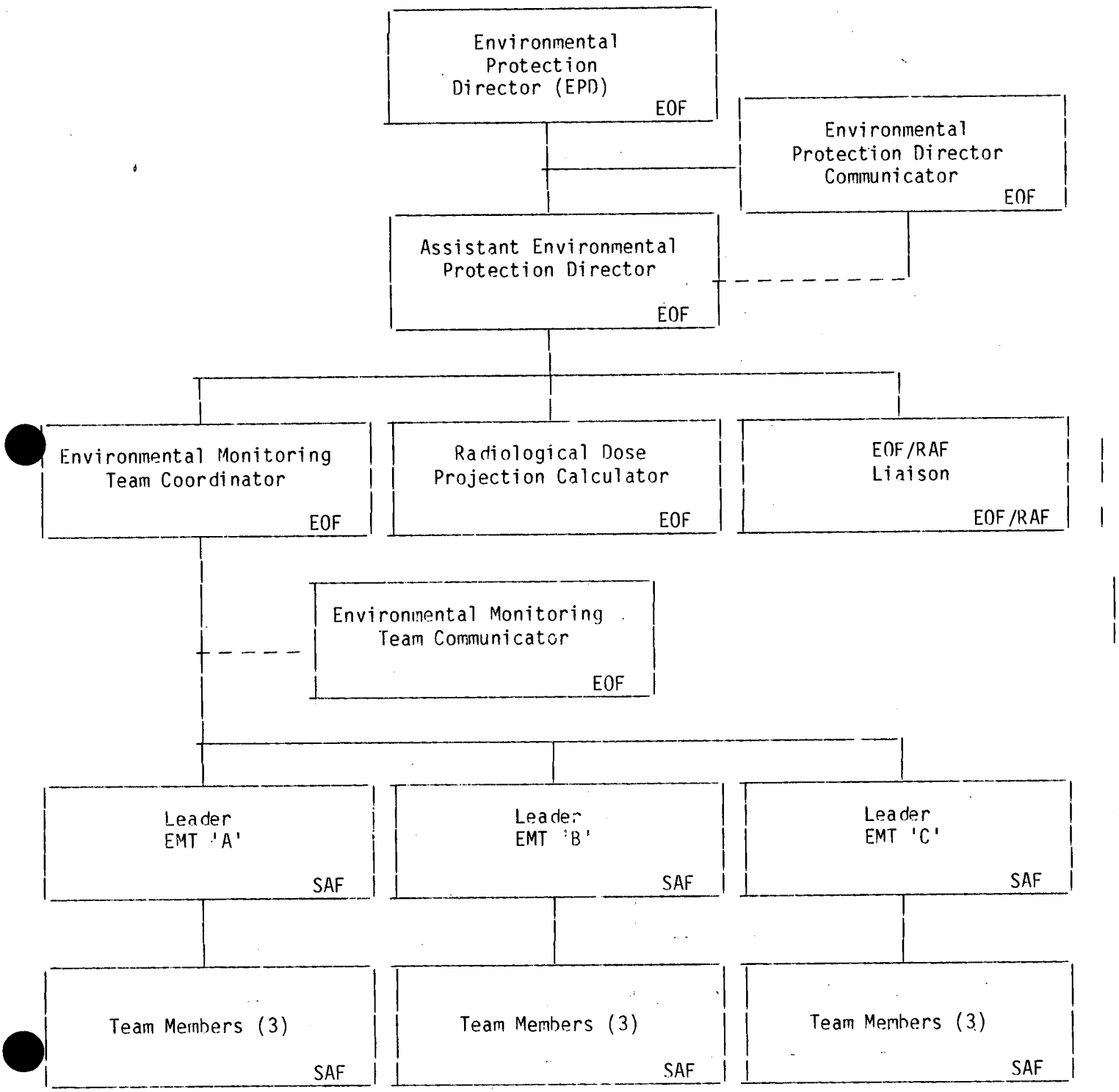
k. Reporting pocket dosimeter readings approximately every 15 minutes unless otherwise directed.

l. Informing the Environmental Monitoring Team Coordinator (or his designated alternate - see 'f' above), when background readings exceeding 500 mR have been encountered. The EMT Coordinator should be contacted only after the team has pulled back to an area with a background of less than 100 mR.

m. Unless otherwise directed by the Environmental Monitoring Team Coordinator, (or his designated alternate - see 'f' above), the Environmental Monitoring Team designated as "C" is responsible for implementation of procedure EP-ENV-4E, "Analyzing Radiologically Affected Areas".

FIGURE ENV 1.1

ENVIRONMENTAL MONITORING GROUP ORGANIZATION AND WORK LOCATION



WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Power Plant EMERGENCY PLAN IMPLEMENTING PROCEDURE	NO. EP-ENV-2 REV. G TITLE SAF Activation for EM Team DATE: APR 14 1986 PAGE 1 of 12
REVIEWED BY Stephen A [signature]	APPROVED BY [signature]

1.0 ACTION LEVEL

The Site Access Facility shall be activated when an emergency has been classified as an Alert, a Site Emergency or General Emergency or at the discretion of the ERM or ED.

2.0 PRECAUTIONS

2.1 The SAF will be unlocked by Security to allow access and activation.

2.2 Habitability of the SAF should be determined as per EP-RET-4C.

3.0 REFERENCES

3.1 EP-RET-1, Radiation Emergency Team (RET) Organization

3.2 EP-RET-4B, Radiological Controls at the SAF

3.3 EP-RET-4C, Site Radiological Monitoring

4.0 INSTRUCTIONS

4.1 The first member of the Environmental Monitoring (EM) Team arriving at the SAF shall ensure the following actions are performed; until the EOF/RAF Liaison arrives, who then is responsible for completion of this procedure.

_______________ First EM Team Member

_______ Time _________ Date

4.2 The individual responsible for completing this procedure (see step 4.1) shall assign the next EM team members to arrive as Equipment Activation Group Leaders. Each Equipment Activation Group Leader is responsible for completing checklist ENV-2.1 for one set of environmental monitoring team equipment.

Equipment Activation Group A Leader__________ Time Assigned_______

Equipment Activation Group B Leader__________ Time Assigned_______

Equipment Activation Group C Leader__________ Time Assigned_______

4.3 As additional EM team members arrive they shall be assigned to Equipment Activation Groups by the individual identified in step 4.1.

Equipment Activation Group A Members

Name_____ Time Assigned_____

Name_____ Time Assigned_____

Name_____ Time Assigned_____

Equipment Activation Group B Members

Name_____ Time Assigned_____

Name_____ Time Assigned_____

Name_____ Time Assigned_____

Equipment Activation Group C Members

Name_____ Time Assigned_____

Name_____ Time Assigned_____

Name_____ Time Assigned_____

4.4 As each activation checklist is completed (ENV-2.2), the following steps will be performed by the individual identified in step 4.1.

4.4.1 Organize EM Field Teams which will consist of an EM Field Team Leader and at least two (preferably three) EM Field Team Members. Team Leaders may be selected from Table ENV-2.1.

A Team Leader _____

A Team Members _____

_____

_____

B Team Leader _____

B Team Leader _____

_____

_____

C Team Leader _____

C Team Members _____

_____

_____

4.4.2 Ensure that each team has completed the following.

	Team A	Team B	Team C
a) Fully clothed in Anti-C's and respirators	____	____	____
b) All EMT members have high and low range dosimetry	____	____	____
c) Obtain each team member's current cumulative dose from the RPO or RAF. Record on FORM ENV-2.2 "EM TEAM DOSIMETER READING TRACKING LOG." Report these readings to the EOF when it becomes activated.	____	____	____
d) Contact one of the following individuals in the order listed according to availability (see EPIP Appendix A Table A4):	____	____	____
--EM Team Coordinator --Assistant EPD --Environmental Protection Director --Radiological Protection Director --Emergency Response Manager --Emergency Director			
e) EMT 'C' is prepared to implement EP-ENV-4E.			____

4.4.3 Notify the Assistant EPD that procedure EP-ENV-2 has been completed.

_____ Person completing EP-ENV-2

_____ Time completed

FORM ENV-2.1A

ENVIRONMENTAL MONITORING TEAM EQUIPMENT CHECKLIST (GROUP A)

DATE: _____ TIME _____

TEAM DESIGNATOR: _____

Radiation Monitoring Instruments

			Initials
1.	PRM-7, uR/hr (1 ea)		_____
	a. Serial Number	_____ (record)	
	b. Calibration within last 6 months	_____ (yes/no)	
	c. Battery check satisfactory	_____ (yes/no)	
	d. Source check reading	_____ (sat/unsat)	
	e. Physical condition satisfactory	_____ (sat/unsat)	
	f. Wrap instrument body in a clear plastic bag	_____	
2.	PIC-6A, mR/hr & R/hr (1 ea)		_____
	a. Serial Number	_____ (record)	
	b. Calibration within last 6 months	_____ (yes/no)	
	c. Battery check satisfactory	_____ (yes/no)	
	d. Source check reading	_____ (sat/unsat)	
	e. Physical condition satisfactory	_____ (sat/unsat)	
	f. Wrap instrument body in a clear plastic bag	_____	
3.	E-520 with HP-190 probe, cpm (1 ea)		_____
	a. Serial Number	_____ (record)	
	b. Calibration within last 6 months	_____ (yes/no)	
	c. Battery check satisfactory	_____ (yes/no)	
	d. Source check reading	_____ (sat/unsat)	
	e. Physical condition satisfactory	_____ (sat/unsat)	
	f. Wrap instrument body in a clear plastic bag	_____	

Air Sampling Equipment

1.	RAS-1 Low Volume Sampler with jumper tube (1 ea)	_____
2.	Staplex High Volume Sampler (1 ea)	_____

FORM ENV-2.1A

ENVIRONMENTAL MONITORING TEAM EQUIPMENT CHECKLIST (GROUP A)

Page 2 of 2

	Initials
Protective Clothing	
1. Full set of Anti-C Clothing (1 set per person)	_____
2. Respirator, Full Face Particulate (1 each per person)	_____
Other Items	
1. Portable Electric Generator (1 ea)	_____
a. Oil level satisfactory _____ (yes/no)	
b. Gasoline tank full _____ (yes/no)	
c. Start and warm-up performed _____ (yes/no)	
d. Load generator for test _____ (yes/no)	
2. Portable High-Band Radio with whip antenna (1 ea)	_____
3. EM Team Kit	_____
a. Is seal intact? _____ (Yes/No)	
b. IF SEAL IS BROKEN, INVENTORY KIT CONTENTS using the most recent revision of RC-HP-115, page 7 of 9.	
c. Book of ENV Procedures.	_____
d. Supply of EPZ Grid Maps (2 pads)	_____
4. 6 collapsible 1 quart plastic bottles	_____

RETURN THIS CHECKLIST TO THE INDIVIDUAL RESPONSIBLE FOR COMPLETING EP-ENV-2.
ALL GROUP MEMBERS SHOULD THEN AWAIT ASSIGNMENT TO AN EM FIELD TEAM.

FORM ENV-2.1B

ENVIRONMENTAL MONITORING TEAM EQUIPMENT CHECKLIST (GROUP B)

DATE: _____ TIME _____

TEAM DESIGNATOR: _____

Radiation Monitoring Instruments

			Initials
1.	PRM-7, uR/hr (1 ea)		_____
	a. Serial Number	_____ (record)	
	b. Calibration within last 6 months	_____ (yes/no)	
	c. Battery check satisfactory	_____ (yes/no)	
	d. Source check reading	_____ (sat/unsat)	
	e. Physical condition satisfactory	_____ (sat/unsat)	
	f. Wrap instrument body in a clear plastic bag	_____	
2.	PIC-6A, mR/hr & R/hr (1 ea)		_____
	a. Serial Number	_____ (record)	
	b. Calibration within last 6 months	_____ (yes/no)	
	c. Battery check satisfactory	_____ (yes/no)	
	d. Source check reading	_____ (sat/unsat)	
	e. Physical condition satisfactory	_____ (sat/unsat)	
	f. Wrap instrument body in a clear plastic bag	_____	
3.	E-520 with HP-190 probe, cpm (1 ea)		_____
	a. Serial Number	_____ (record)	
	b. Calibration within last 6 months	_____ (yes/no)	
	c. Battery check satisfactory	_____ (yes/no)	
	d. Source check reading	_____ (sat/unsat)	
	e. Physical condition satisfactory	_____ (sat/unsat)	
	f. Wrap instrument body in a clear plastic bag	_____	

Air Sampling Equipment

1.	RAS-1 Low Volume Sampler with jumper tube (1 ea)	_____
2.	Staplex High Volume Sampler (1 ea)	_____

FORM ENV-2.1B

ENVIRONMENTAL MONITORING TEAM EQUIPMENT CHECKLIST (GROUP B)

Page 2 of 2

Protective Clothing	Initials
1. Full set of Anti-C Clothing (1 set per person)	_____
2. Respirator, Full Face Particulate (1 each per person)	_____

Other Items

1. Portable Electric Generator (1 ea) _____

   a. Oil level satisfactory _____ (yes/no)
   b. Gasoline tank full _____ (yes/no)
   c. Start and warm-up performed _____ (yes/no)
   d. Load generator for test _____ (yes/no)

2. Portable High-Band Radio with whip antenna (1 ea) _____

3. EM Team Kit _____

   a. Is seal intact? _____ (Yes/No)

   b. IF SEAL IS BROKEN, INVENTORY KIT CONTENTS using the most recent revision of RC-HP-115, page 7 of 9.

   c. Book of ENV Procedures. _____

   d. Supply of EPZ Grid Maps (2 pads) _____

4. 6 collapsible 1 quart plastic bottles _____

RETURN THIS CHECKLIST TO THE INDIVIDUAL RESPONSIBLE FOR COMPLETING EP-ENV-2.
ALL GROUP MEMBERS SHOULD THEN AWAIT ASSIGNMENT TO AN EM FIELD TEAM.

FORM ENV-2.1C

ENVIRONMENTAL MONITORING TEAM EQUIPMENT CHECKLIST (GROUP C)

DATE: _____ TIME _____

TEAM DESIGNATOR: _____

Radiation Monitoring Instruments

			Initials
1.	PRM-7, uR/hr (1 ea)		_____
	a. Serial Number	_____ (record)	
	b. Calibration within last 6 months	_____ (yes/no)	
	c. Battery check satisfactory	_____ (yes/no)	
	d. Source check reading	_____ (sat/unsat)	
	e. Physical condition satisfactory	_____ (sat/unsat)	
	f. Wrap instrument body in a clear plastic bag	_____	
2.	PIC-6A, mR/hr & R/hr (1 ea)		_____
	a. Serial Number	_____ (record)	
	b. Calibration within last 6 months	_____ (yes/no)	
	c. Battery check satisfactory	_____ (yes/no)	
	d. Source check reading	_____ (sat/unsat)	
	e. Physical condition satisfactory	_____ (sat/unsat)	
	f. Wrap instrument body in a clear plastic bag	_____	
3.	E-520 with HP-190 probe, cpm (1 ea)		_____
	a. Serial Number	_____ (record)	
	b. Calibration within last 6 months	_____ (yes/no)	
	c. Battery check satisfactory	_____ (yes/no)	
	d. Source check reading	_____ (sat/unsat)	
	e. Physical condition satisfactory	_____ (sat/unsat)	
	f. Wrap instrument body in a clear plastic bag	_____	

Air Sampling Equipment

1.	RAS-1 Low Volume Sampler with jumper tube (1 ea)	_____
2.	Staplex High Volume Sampler (1 ea)	_____

FORM ENV-2.1C

ENVIRONMENTAL MONITORING TEAM EQUIPMENT CHECKLIST (GROUP C)

Page 2 of 2

Protective Clothing	Initials
1. Full set of Anti-C Clothing (1 set per person)	_____
2. Respirator, Full Face Particulate (1 each per person)	_____

Other Items

1. Portable Electric Generator (1 ea) _____

   a. Oil level satisfactory _____ (yes/no)
   b. Gasoline tank full _____ (yes/no)
   c. Start and warm-up performed _____ (yes/no)
   d. Load generator for test _____ (yes/no)

2. Portable High-Band Radio with whip antenna (1 ea) _____

3. EM Team Kit _____

   a. Is seal intact? _____ (Yes/No)

   b. IF SEAL IS BROKEN, INVENTORY KIT CONTENTS using the most recent revision of RC-HP-115, page 7 of 9.

   c. Book of ENV Procedures. _____

   d. Supply of EPZ Grid Maps (2 pads) _____

4. 6 collapsible 1 quart plastic bottles _____

RETURN THIS CHECKLIST TO THE INDIVIDUAL RESPONSIBLE FOR COMPLETING EP-ENV-2. ALL GROUP MEMBERS SHOULD THEN AWAIT ASSIGNMENT TO AN EM FIELD TEAM.

FORM ENV-2.2

EM TEAM DOSIMETER READING TRACKING LOG

DATE: _____ TEAM DESIGNATOR: _____

[NOTE: The EPD OR RPD should be contacted if any individual reaches a total dose of 1000 mREM]

NAME				
Present Quarter Dose Level (from RPD)				
Time/Reading				
Time/Reading				
Time/Reading				
Time/Reading				
Time/Reading				
Time/Reading				
Time/Reading				
Time/Reading				
Time/Reading				
Time/Reading				
Time/Reading				
Time/Reading				
Time/Reading				
Time/Reading				
Time/Reading				
Time/Reading				
Time/Reading				
Time/Reading				
Time/Reading				
Time/Reading				

TABLE ENV-2.1

ENVIRONMENTAL MONITORING TEAM
SKILLS MATRIX
SITE ACCESS FACILITY

	Implementation of EP-ENV-2	Environmental Monitoring Team Members	EOF/RAF Liaison	EMT Leaders	EMT C Leaders for Implementation of EP-ENV-4E
J. L. Belant	*	*	*	*	*
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WISCONSIN PUBLIC SERVICE CORPORATION

Kewaunee Nuclear Power Plant

EMERGENCY PLAN IMPLEMENTING PROCEDURE

NO. EP-ENV-4A REV. F

TITLE: Portable Instrument Use

DATE: APR 23 1985 PAGE 1 of 2

REVIEWED BY [signature] / SAG

APPROVED BY Wayne Steinhardt

1.0 APPLICABILITY

Upon activation of the Site Access Facility (SAF), the Environmental Monitoring Teams (EM Teams) will obtain direct radiation readings as stated in section 6.3 of procedure EP-ENV-1 or as directed by the Environmental Protection Director (EPD).

2.0 PRECAUTIONS

2.1 Probes on specific instruments shall not be interchanged since the probes and instruments are calibrated as a unit.

2.2 When performing source checks, place the source in direct contact with the meter probe to determine response.

NOTE: Readings are sensitive to source positions on the probe. The readings should be within +/- 20% of the required check-source reading written on the calibration label.

2.3 Change the clear plastic bag wrapping the instrument periodically to prevent contamination build up that may affect the meter readings obtained.

3.0 REFERENCES

3.1 Instrument Operating Procedures

RC-HP 41A - PIC-6A

RC-HP 41G - E-520, E-530, and E-530N

4.0 INSTRUCTIONS

4.1 E-530 - HP-190 Probe

4.1.1 Multiply the meter scale indication by the appropriate multiplication factor to obtain the proper count rate. Use the CPM range only.

4.1.2 Record readings on an EPZ Grid Map.

(NOTE: When meter readings reach or surpass 3/4 of full scale, shift to the next higher multiplication factor to obtain a reading.)

4.2 PRM-7

4.2.1 Set response time to FAST (2 second full-scale response).

4.2.2 Set meter on highest scale (0-5 mR/hr).

4.2.3 Reduce multiplication factor until an onscale reading is obtained.

4.2.4 Reset response time to SLOW to verify readings (10 second response).

4.2.5 Record readings on an EPZ Grid Map.

NOTE: Normal background in the EPZ is 6 to 9 uR/hr.

NOTE: If a PRM-7 is not available the Rueter-Stokes can be susbstituted for micro-R determination. Contact the RPO for the location of the Reuter Stokes.

4.3 PIC-6A

4.3.1 Set the meter switch to the appropriate range (in mR/hr or R/hr).

4.3.2 Obtain Beta radiation readings when requested.

a. A "Closed Window" meter reading will indicate gamma radiation dose rate only.

b. An "Open Window" meter reading will indicate both gamma and beta radiation dose rate.

c. Determine the actual beta radiation dose rate as follows:

Open Window Reading	-	Closed Window Reading	x	Beta Correction Factor	=	Beta Dose Rate

NOTE: The beta correction factor can be found on the meters calibration sticker if applicable to that instrument.

4.3.3 Record readings on an EPZ Grid Map.

FORM ENV-E.1

METEOROLOGICAL DATA WORKSHEET

DATE: _____

TIME: _____

I. KNPP METEOROLOGICAL DATA

A. Data Source (circle one) Primary/Backup Tower

B. Parameters

NOTE 1: When dealing with ELEVATED releases 60 meter data is preferred.

NOTE 2: When dealing with GROUND LEVEL releases 10 meter data is preferred.

Wind Speed (10 meter, 15 min Avg) _____ mph x 0.447 $\frac{m - hr}{mi - sec}$ = _____ m/sec

(60 meter, 15 min Avg) _____ mph x 0.447 $\frac{m - hr}{mi - sec}$ = _____ m/sec

Wind Direction (10 meter, 15 min Avg) _____ deg
(60 meter, 15 min Avg) _____ deg

+ Delta T (15 min Avg) (preferred parameter) _____ °F

Sigma Theta (acceptable parameter at wind speeds >1.5 m/sec) _____ deg

II. POINT BEACH METEOROLOGICAL DATA

A. Data Source (circle one) Primary/Backup Tower

B. Parameters

NOTE 1: When dealing with ELEVATED releases 45 meter data is preferred.

NOTE 2: When dealing with GROUND LEVEL releases 10 meter data is preferred.

Wind Speed (10 meter, 15 min Avg) _____ mph x 0.447 $\frac{m - hr}{mi - sec}$ = _____ m/sec

(45 meter, 15 min Avg) _____ mph x 0.447 $\frac{m - hr}{mi - sec}$ = _____ m/sec

Wind Direction (10 meter, 15 min Avg) _____ deg
(45 meter, 15 min Avg) _____ deg

FORM ENV-E.1 (cont.)

METEOROLOGICAL DATA WORKSHEET

+ Delta T (15 min Avg) (preferred parameter) _____ (PB value) x 1.43 _____ (KNPP Equivalent) °F

Sigma Theta (acceptable parameter at wind speeds >1.5 mph) _____ (PB value) deg

III. Stability Class

Use below table to determine stability class.

Stability Classification	Pasquill Categories	Sigma Theta ($\sigma\theta$) (degrees)	Delta T (°F)
Extremely unstable	A	$\sigma\theta \geq 22.5$	Delta T $\leq$ - 1.71
Moderately unstable	B	$22.5 > \sigma\theta \geq 17.5$	-1.71< Delta T $\leq$ - [illegible]
Slightly unstable	C	$17.5 > \sigma\theta \geq 12.5$	-1.53< Delta T $\leq$ - 1
Neutral	D	$12.5 > \sigma\theta \geq 7.5$	-1.35< Delta T $\leq$ - 0.45
Slightly stable	E	$7.5 > \sigma\theta \geq 3.8$	-0.45< Delta T $\leq$ 1.35
Moderately stable	F	$3.8 > \sigma\theta \geq 2.1$	1.35< Delta T $\leq$ 3.60
Extremely stable	G	$2.1 > \sigma\theta$	3.60< Delta T

NOTE: If Delta T and Sigma Theta do not agree use Delta T classification.

IV. Release Elevation

An Elevated release must meet all of the below criteria, otherwise the release is considered Ground Level.

a. Primary to Secondary Leak is in progress.
b. Release is from Steam Generator Safety Valves, Steam Generator Power Operated Relief Valve or Auxiliary Feed Pump Turbine Exhaust.
c. Wind speed is less than 1m/sec.
d. Stability class is A, B, C or D.

_____ Elevated _____ Ground Level

WISCONSIN PUBLIC SERVICE CORPORATION

Kewaunee Nuclear Power Plant

EMERGENCY PLAN IMPLEMENTING PROCEDURE

NO. EP-ENV-4B REV. F

TITLE Air Monitoring Devices

DATE: APR 14 1986 PAGE 1 of 5

REVIEWED BY [signature]

APPROVED BY [signature]

1.0 APPLICABILITY

After completion of Site Access Facility (SAF) activation, the Environmental Monitoring Teams (EM Teams) will obtain airborne activity samples as directed by the Environmental Protection Director (EPD).

2.0 PRECAUTIONS

2.1 Care must be taken during sample acquisition to prevent sample cross contamination.

3.0 REFERENCES

3.1 RAP Sampler Technical Manual

3.2 Hi-Vol Sampler Technical Manual

3.3 EP-ENV-4E

4.0 INSTRUCTIONS

4.1 Regulated Air Sample (RAS-1) for Plume Airborne Activity Determination

4.1.1 Obtain a RAS-1 and portable 110-120 volt AC power source.

NOTE: Use of RAS-1 samplers is a method of obtaining particulate, iodine, and gas samples simultaneously.

4.1.2 Obtain several (2 or 3) 2" round Whatman filter papers for particulates, the same number of silver zeolite cartridges for iodine, and two or three 4-liter Marinelli beakers for noble gas samples.

4.1.3 Place each filter and silver zeolite cartridge in their own poly bags.

4.1.4 Place the Marinelli beaker in a plastic bag so as not to contaminate its outer surface.

4.1.5 Drive to the designated sample location, as directed by the EM Team Coordinator.

4.1.6 Use a survey meter (G.M. or ion chamber instrument) and take radiation readings in the sample area to determine the general area dose rate. Record data and transmit to EM Team Coordinator.

4.1.7 Set-up and run the RAS-1 in the area as follows:

a. Ensure that the pump motor switch is in the OFF position.

b. Plug the RAS-1 into the AC generator.

c. Loosen the thumb screws on the cartridge housing.

d. Open the housing so that the particulate filter holder cover is pointing up.

e. Remove the particulate filter hold-down ring (1/4 turn counter-clockwise).

f. Using a pair of rubber gloves, place the 2" filter paper in the holder, rough side up.

g. Replace the outer ring of the particulate filter holder.

h. Put a silver zeolite cartridge in the housing.

i. Close the cartridge and hold the housing down firmly while tightening the thumbscrew.

NOTE: Make sure the housing is sealed tightly so that no air will bypass the particulate filter during sampling.

j. Attach the tygon tubing from the cartridge housing to the inlet stop-cock on the Marinelli beaker.

k. Attach the end of the tygon tube extending from the flow meter to the outlet stopcock of the Marinelli beaker.

l. Ensure that both the inlet and outlet stop-cocks on the Marinelli beaker are FULL OPEN.

m. Turn the sampler power switch to the ON position and allow it to run for 10 minutes.

NOTE: A shorter run time may be used if high general area radiation levels warrant. Inform the EM Team Coordinator of such a situation and accurately record the actual sample run time on the appropriate sample label.

n. At the end of the sampling time, stop the RAS-1 and shut both the inlet and outlet stop-cocks to the Marinelli beaker.

o. Before removing samples, put on a clean pair of rubber gloves.

p. Disconnect the Marinelli beaker and place it inside another clean ploybag.

q. Seal the poly-bag and complete the attached label.

r. Remove the 2" particulate filter from the holder and place it back into its poly bag.

s. Place the silver zeolite cartridge in a separate poly bag.

t. Place the bagged particulate and silver zeolite cartridge into another clean poly bag, seal it, and label it.

NOTE: All labels shall contain the following information:

-LOCATION (By grid coordinates)
-TYPE OF SAMPLE (RAP or Hi Vol)
-DATE
-TIME SAMPLE STARTED
-TIME SAMPLE ENDED
-FLOW RATE OF SAMPLER FROM CALIBRATION STICKER
-INITIALS

u. Follow the directions of the EM Team Coordinator for sample disposition.

4.2 <u>High Volume Air Sampler, 4" Staplex Model for Airborne Particulate Activity Determination</u>

4.2.1 Obtain a Hi-Vol Staplex sampler and portable 110-120 volt AC power generator.

4.2.2 Get several (2 or 3) 4" Whatman filter papers.

4.2.3 Place each filter in its own poly bag.

4.2.4 Set up and run the Hi-Vol air sampler as follows:

a. Ensure the sampler motor switch is in the OFF position.

b. Plug the sampler into the AC power source.

c. Tip the Hi-Vol so that the nozzle is pointing upward.

d. Unscrew outer nose ring.

e. Using a clean pair of rubber gloves, place a 4" Whatman filter into the back plate.

NOTE: Mark a pencil mark on the outer side of the filter to indicate the contaminated side of the filter.

f. Replace the nose ring tightly.

g. Return Hi-Vol to its normal standing position and start the portable AC generator.

h. Turn the sampler motor switch to the ON position and run the sampler for 5 minutes.

NOTE: A shorter run time may be used if high general area radiation levels warrant. Inform the EM Team Coordinator of such a situation and accurately record the actual sample rum times on the appropriate sample label.

i. At the end of the sample time, switch the power OFF.

j. Before removing sample, put on a clean pair of rubber gloves.

k. Remove the 4" filter by dismantling the outer nose ring and lift the filter from the back plate.

l. Place this filter into the poly bag with a completed label (see 4.1.7.t above) and seal.

m. Follow the direction of the EM Team Coordinator for sample disposition.

4.3 RAS-1 Sampling Method When Gas Samples are to be Counted at the Point Beach Nuclear Plant

4.3.1 Using the RAS-1 sampler, assemble the filter as stated in steps 4.1.7.a through 4.1.7.i of this procedure.

4.3.2 In place of the Marinelli beaker, install the tygon jumper tube.

4.3.3 Obtain a capped one liter poly bottle filled with uncontaminated water.

4.3.4 Place this bottle into a clean poly bag.

4.3.5 Go to the sample location

4.3.6 Put on a clean pair of rubber gloves and remove the bottle from its bag.

4.3.7 At the same time as the sampler is running, remove the cap, invert the bottle and allow the water to empty onto the ground.

4.3.8 Recap the bottle. (NOTE: Maintain the bottle inverted until the cap is on tight.)

4.3.9 Place the bottle into a clean poly bag, seal it, and attach a completed label. (See 4.1.7.t above)

4.3.10 Follow the direction of the EM Team Coordinator for sample disposition.

4.4 Sample Screening Techniques

The E-530 and HP-190 probe can be used with a Survey Tube (stainless steel cylinder) to perform gross counting of air filters. These techniques should be used on a sample only when the PRM-7 indicates you are in an area outside of the plume.

4.4.1 Zeolite Cartridges

a. Obtain sample per section 4.1.
b. Insert HP-190 probe in Survey Tube in the direction of the arrow.
c. Place the open end of the tube perpendicular to, and in contact with, the cartridge.
d. Allow meter to stabilize.
e. Multiply meter reading in cpm by 1 E-5 to convert to uCi.
f. Divide uCi by total flow in cc and report as uCi/cc.

4.4.2 RAS-1 Particulate Filter

a. Obtain sample per section 4.1.
b. Insert HP-190 probe in Survey Tube in the direction of the arrow.
c. Place the open end of the tube perpendicular to, and in contact with, the filter.
d. Allow meter to stabilize.
e. Multiply the meter reading by 6.77 E-6 to convert to uCi.
f. Divide by total flow in cc and report as uCi/cc.

4.4.3 Hi-Vol Filter

a. Obtain a sample per section 4.2.
b. Insert HP-190 probe in Survey Tube in the direction of the arrow.
c. Place the open end of the tube perpendicular to, and in contact with, the filter.
d. Allow meter to stabilize.
e. Multiply meter reading by 3.17 E-5 to convert to uCi.
f. Divide by total flow in cc and report as uCi/cc.

WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Power Plant EMERGENCY PLAN IMPLEMENTING PROCEDURE	NO. EP-ENV-4C REV. F TITLE: Environmental Sampling Techniques DATE: APR 14 1986 PAGE 1 of 3
REVIEWED BY [signature]	APPROVED BY [signature]

1.0 APPLICABILITY

1.1 After activation of Site Access FAcility (SAF), the Environmental Monitoring (EM) Teams will obtain environmental samples as directed by the Environmental Protection Director (EPD).

2.0 PRECAUTIONS

2.1 Wear rubber gloves while obtaining all samples listed below and change your gloves frequently to prevent sample cross contamination.

2.2 Care must be taken during sample acquisition to employ techniques that prevent sample cross contamination. Use new scoops, shovels, and funnels for each sample obtained.

NOTE: These tools can be decontaminated at the SAF between assignments.

3.0 REFERENCES

3.1 Isenbud, Environmental Radioactivity

4.0 INSTRUCTIONS

4.1 WATER SAMPLES

4.1.1 To obtain a water sample, obtain a pre-marked 1 gallon poly-bottle, a plastic funnel, and a ladle to transfer the water.

4.1.2 Place the funnel into the bottle.

4.1.3 Dip the ladle so that it skims the surface of the water.

4.1.4 Transfer the water into the sample bottle, taking care not spill any water on the exterior of the bottle.

4.1.5 Fill the sample bottle and cap tightly.

4.1.6 Place the bottle in a large plastic bag and seal.

4.1.7 Complete and attach a label with the following information:

- Type of sample
- Date
- Time
- Location (By grid coordinator)
- Initials

4.2 SNOW SAMPLES

4.2.1 With a small trowel, scrape the surface of the snow approximately 1/4" deep.

4.2.2 Gather approximately 2 liters of surface snow in a poly bag.

4.2.3 Seal the bags tightly, place it in a second clean poly bag and seal that bag.

4.2.4 Complete and attach a label with the following information:

-Type of sample
-Date
-Time
-Location (By grid coordinates)
-Initials

4.3 SOIL SAMPLES

4.3.1 Using a trowel, scrape the surface of the ground approximately 1/4" deep.

4.3.2 Gather enough surface soil to fill half of a 12" x 24" poly bag. Seal the bag tightly, place it in a second clean poly bag and seal that bag.

4.3.4 Complete and attach a label with the following information:

-Type of Sample
-Date
-Time
-Location (By grid coordinates)
-Initials

4.4 VEGETATION SAMPLES

4.4.1 Pickup the vegetation and place it into a large 24" x 36" poly bag.

4.4.2 Fill the bag about half way with plants and/or grass, weeds, etc.

4.4.3 Slowly remove the air from the bag.

(NOTE: Ensure bag opening is pointed away from your face.)

4.4.4 Seal the bag tightly and place the bag into a second clean poly bag and seal that bag.

4.4.5 Complete and attach a label with the following information:

-Type of Sample
-Date
-Time
-Location (By grid coordinates)
-Initials

4.5 MILK SAMPLES

4.5.1 All milk samples will be handled as directed by the EPD in conjunction with an Environmental Consultant.

4.6 SMEAR SURVEY

4.6.1 Equipment Required

a. Cloth smear discs (NU-CON)

4.6.2 Instructions

a. Select a representative surface to obtain a smear sample (i.e. tops of vehicles, road pavement, etc.)

b. Wipe a 4" square or 18" S-shaped area with the cloth disc.

c. Fold the smear holding paper in half so that the smear is covered and complete the information required on the label.

d. Place all smear samples obtained into a clean poly bag and seal the bag.

4.7 Ground Level Containment Screening Techniques

The E-530 and HP-190 probe can be used with a survey tube (stainless steel cylinder) to perform a gross determination of ground level contamination.

a. Insert the HP-190 probe into the Survey Tube in the direction of the arrow.
b. Place the tube perpendicular to, and in contact with, the surface to be measured.
c. Allow the meter to stabilize.
d. Multiply meter reading by 87 and report as dpm/100cm^2.
e. Remove probe and check the end of the Survey Tube for residual contamination. Decontaminate as required.

5.2 Obtain a brief description of plant conditions from the EOF, EPD, RPD, ERM, ED or TSC.

5.3 Obtain meteorological data from EOF, EPD, RPD or TSC.

5.4 If a release has occurred, proceed to step 5.6.

5.5 If there has NOT been a release from the plant, then,

a. Based on meteorological data, determine the location most likely to be affected should a release occur. (This should be at least one mile from the plant.)

b. Proceed to this location and obtain environmental samples if possible using

EP-ENV-4B "Air Monitoring Devices:
Sections 4.1 (RAS-1)
4.4.1 Zeolite Cartridges

EP-ENV-4C "Environmental Sampling Techniques"
Sections 4.1 Water Samples
4.2 Snow Samples
4.3 Soil Samples
4.4 Vegetation Samples
4.6 Smear Survey

as appropriate.

CAUTION: Do not exceed 500 mR/hr. (See EP-ENV-1)

5.6 If a release HAS occurred, then,

a. Based on meteorological data, determine the location most likely to be affected by the release.

b. Proceed to this location while continuously monitoring background radiation levels and obtain environmental samples using

EP-ENV-4B Sections 4.1 and 4.4.1
EP-ENV-4C Sections 4.1, 4.2, 4.3, 4.4 and 4.6

as appropriate.

5.7 Report any findings from EP-ENV-4B step 4.4.1 immediately to EOF or RPD.

5.8 Proceed to an area with background radiation reading of less than 100 mR and repeat steps 5.1 through 5.7.

WISCONCIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Power Plant EMERGENCY PLAN IMPLEMENTING PROCEDURE	NO. EP-ENV-4E REV. A TITLE Analyzing Radiologically Affected Areas DATE APR 14 1986 PAGE 1 of 2
REVIEWED BY [signature]	APPROVED BY [signature]

1.0 APPLICABILITY

This procedure may be implemented by EM Team C when specific guidance has not been received from the EM Team Coordinator or his designated alternate. The team leader must be a WPSC Supervisor and is or has been an STA for the Kewaunee Plant.

2.0 PURPOSE

Provide guidance and direction in collecting environmental samples.

3.0 REFERENCES

EP-ENV-2 "SAF Activation for EM Team"
EP-ENV-4A "Portable Instrument Use"
EP-ENV-4B "Air Monitoring Devices
EP-ENV-4C "Environmental Sampling Techniques"

4.0 PRECAUTIONS

4.1 This procedure may be implemented only when the EMT C Leader is a WPSC supervisor and is currently, or has been an STA for the Kewaunee Plant.

4.2 Do not enter areas exceeding 500 mR/hr.

4.3 Monitor personnel dosimetry and maintain the cumulative quarterly doses for each EMT member on FORM ENV-2.2.

4.4 Continuously monitor background radiation levels using hand held instrumentation. If background radiation levels exceed 500 mR, leave the area immediately.

4.5 If any EMT member's cumulative quarterly dose exceeds 1000 mR, the team shall return to the SAF (or its alternate) and contact the RPD as soon as possible.

5.0 PROCEDURE

5.1 Contact the EM Team Coordinator, EPD, or RPD for specific instructions. If no specific instructions are given utilize the following guidelines for environmental sampling.

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HINTZ, D. C. Wisconsin Public Service Corp.
RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: Revised radiological emergency response plan implementing procedures, including Rev 0 to EP-AD-2, "Emergency Class Determination," & Rev 0 to EP-ENV-3C "Primary Dose Projection...." Revised index also encl. W/860627 ltr.

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June 27, 1986

U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Gentlemen:

Docket 50-305
Operating License DPR-43
Kewaunee Nuclear Power Plant
Radiological Emergency Response Plan Implementing Procedures

Pursuant to 10 CFR 50 Appendix E, Wisconsin Public Service Corporation hereby submits two copies of the Kewaunee Nuclear Power Plant Radiological Emergency Response Plan Implementing Procedures listed below. By copy of this letter, three copies of these procedures are hereby submitted to Mr. James G. Keppler, Regional Administrator, U. S. Nuclear Regulatory Commission, Region III, Glen Ellyn, Illinois.

Appendix A (Rev. I) Communications

This revised procedure supersedes the previously submitted procedure.

The following procedures are being re-issued as they were not double-side copied when last issued on May 30, 1986:

EP-AD-2 (Rev. G)	Emergency Class Determination
EP-ENV-3C (Rev. G)	Primary Dose Projection Calculation - IBM Personal Computer
EP-ENV-3D (Rev. B)	Primary Dose Projection Computer Program
EP-ENV-3E (Rev. J)	Manual Determination of X/Q
EP-ENV-3G (Rev. H)	Manual Dose Projection Calculation
EP-ENV-3H (Rev. E)	Protective Action Recommendations

A045
1/1

Very truly yours,

for

D. C. Hintz
Manager - Nuclear Power

DSN/jms

Attachment

cc - Mr. J. G. Keppler, US NRC - Region III (3 copies)
Mr. Robert Nelson, US NRC, w/o attach.
Mr. William Snell, US NRC, "
Mr. R. S. Cullen, PSCW "
Mr. George Lear, US NRC "