



NRC-00-048

Wisconsin Public Service Corporation  
(a subsidiary of WPS Resources Corporation)  
Kewaunee Nuclear Power Plant  
North 490, Highway 42  
Kewaunee, WI 54216-9511  
920-388-2560

June 16, 2000

10 CFR 50, App. E

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

Ladies/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 one copy of the latest revisions to the Kewaunee Nuclear Power Plant Radiological Emergency Response Plan Implementing Procedures (EIPs). These revised procedures supersede the previously submitted procedures.

Pursuant to 10 CFR 50.4, two additional copies of this letter and attachment are hereby submitted to the Regional Administrator, U. S. Nuclear Regulatory Commission, Region III, Lisle, Illinois. As required, one copy of this letter and attachment is also submitted to the Kewaunee Nuclear Power Plant NRC Senior Resident Inspector.

Sincerely,

for  
Mark L. Marchi  
Vice President-Nuclear

DLF

Attachment

- cc - US NRC Senior Resident Inspector, w/attach.
- US NRC, Region III (2 copies), w/attach.
- Electric Division, PSCW, w/o attach.
- QA Vault, w/attach.

NRR 037

A045

KEWAUNEE NUCLEAR POWER PLANT

June 15, 2000

EMERGENCY PLAN IMPLEMENTING PROCEDURES TRANSMITTAL FORM

**RETURN TO DIANE FENCL - KNPP**

OUTSIDE AGENCY COPIES (1-20)

- T. Webb - NRC Document Control Desk (1)\*
- T. Webb - NRC Region III (2 & 3)\*
- T. Webb - NRC Resident Inspector (4) (receives Appx. A phone numbers)\*
- T. Webb - State of Wisconsin (5)\*
- T. Webb - KNPP QA Vault w/NRC Letter (15)\*
- Bob Hayden - Wisconsin Electric Power Co. (10)
- Craig Weiss - Wisconsin Power & Light (11)

PERSONAL COPIES (21-40) These copies are for the personal use of the listed individuals for reference or emergency response.

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| T. Keneklis (30) | D. Masarik (32) | D. Seebart (24) | B. Bartelme (34)  |
| J. Bennett (33)  | D. Mielke (35)  | J. Mueller (13) | K. Weinbauer (28) |

REFERENCE COPIES - CUSTODIAN (41-100) These copies are for general reference by anyone. They are distributed throughout the plant and corporate offices. The named individual is the responsible custodian for the procedures and shall insure they are properly maintained.

- |  |  |
|--|--|
| STF (86, 87, 88)                         | LOREB - STF (62, 67, 68, 70, 72, 73, 74) |
| L. Duggan - Fuel Services (65)           | STF Library (43)                         |
| QP Library - KNPP (59)                   | Resource Center (82, 89, 94, 131)        |
| C. Sternitzky - ATF-2 (44)               | D. Schrank - Maintenance Off. (41)       |
| D. Braun - Admin. Bldg. Upper (45)       | M. Anderson - CR/SS Office (51, 56)      |
| P. Ehlen - I&C Office (42)               | L. Renier-Hicks - GB-D2 Nuclear (84)     |
| M. Mowrer - Security Building (46)       | J. Mueller - TSC (50)                    |
| L. Renier-Hicks - GB-D2 Nuclear EOF (77) | C. Long - RAF (53)                       |
| J. Mueller - OSF (52)                    | C. Long - SBF/EMT (54)                   |
| C. Hutter - ATF-1 (64)                   | C. Long - RPO (55)                       |
| LOREB - ATF-1 (66)                       |  |

WORKING COPIES (101-199) These copies of procedures are kept in the areas designated for use in response to an emergency. These are not complete sets, but contain only those procedures that are used to implement activities in the location where they are kept. Please dispose of any sections distributed that are not tabbed in the indicated copy.

- |   |   |
|---|---|
| C. Long - RAF/RPO (106, 107)              | M. Anderson - CR/Communicator (116)(Partial Distribution) |
| C. Long - SBF/ENV (108, 109)              | Simulator/Communicator (117)                              |
| C. Long - SBF/EM Team (110, 111, 111A)    | J. Fletcher - Security (121)                              |
| C. Long - T. R. Hospital (118, 119)       | N. Deda - Security Building (120)                         |
| W. Flint - Cold Chem/HR Sample Room (113) | K. Evers (125)  |
| N. Deda - SBF/SEC (114)                   | J. Stoeger (126)  |

Originals to KNPP QA Vault

Please follow the directions when updating your EPIP Manual. WATCH FOR DELETIONS!!! These are controlled procedures and random checks may be made to ensure the manuals are kept up-to-date.

**\*THIS IS NOT A CONTROLLED COPY. IT IS A COPY FOR INFORMATION ONLY.**

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EPIP-AD-03	KNPP Response to an Unusual Event	AA	04-18-2000
EPIP-AD-04	KNPP Response to Alert or Higher	AB	04-18-2000
EP-AD-5	Site Emergency	Deleted	04-27-87
EP-AD-5	Emergency Response Organization Shift Relief Guideline	A	10-13-98
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EP-AD-11	Emergency Radiation Controls	P	08-10-99
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EP-ENV-3B	EM Team Actions	Deleted	09-26-84
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EP-ENV-3H	Protective Action Recommendations	Deleted	04-13-90
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EP-ENV-4D	Plume Tracking for Environmental Monitoring Teams	L	02-23-99
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EP-ENV-5D	PAC-4G (Alpha Counter) Operation	Deleted	04-14-86
EP-ENV-5E	Reuter-Stokes Operation	Deleted	08-27-85
EP-ENV-6	Data Analysis, Dose Projections and Protective Action Recommendations	Deleted	12-21-81
EP-ENV-6	Alternate Sample Analysis and Relocation of EM Team	Deleted	04-14-86
EP-ENV-6A	Relocation of Site Access Facility (Habitability)	Deleted	03-23-84
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EP-ENV-7	Site Access Facility Communications	Deleted	09-26-84
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EP-EOF-5	Corporate Staff Action for Site Emergency	Deleted	04-24-87
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EP-RET-2E	Handling of Injured Personnel	Deleted	04-16-96
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EP-RET-3A	Liquid Effluent Release Paths	K	01-12-99
EP-RET-3B	Post-Accident Reactor Coolant Alternate Sampling Procedure	Deleted	01-25-88
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EP-SEC-2A	Manual Activation of Emergency Sirens	<b>Deleted</b>	04-16-82
EPIP-SEC-03	Personnel Assembly and Accountability	X	03-28-2000
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EPIP-TSC-08B*	STMRLS Computer Program	E	03-07-2000
EP-TSC-8C*	See EP-TSC-8B	<b>Deleted</b>	04-16-92
* EP-TSC-8B was totally deleted; therefore, EP-TSC-8C was changed to EP-TSC-8B			

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EP-TSC-9A*	Core Damage Assessment	I	02-23-99
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* EP-TSC-9A, Rev. D was totally deleted; therefore, EP-TSC-9B became EP-TSC-9A. EP-TSC-9B was previously EP-TSC-9C.			
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EOF 12.1	I.D. Badge Registration Form	F	08-04-98
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TSC 8A.3	Steam Release Data/Calculation Sheet (Open Valve)	D	02-14-95
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TSC 9A.1	Core Damage Based on Reactor Vessel Level & Fuel Rod Temp.	C	02-14-95
TSC 9A.2	Core Damage Based on Radiation Monitors	C	02-14-95
TSC 9A.3	Cs-134 and Cs-137 PCF Determination	D	04-16-96
TSC 9A.4	Core Damage Based on Activity Ratios	C	02-14-95
TSC 9A.5	Core Damage Assessment (Monitoring Data)	D	04-16-96
TSC 9A.6	Core Damage Summary	C	02-14-95

<b>WISCONSIN PUBLIC SERVICE CORP.</b>  <b>Kewaunee Nuclear Power Plant</b>  <i>Emergency Plan Implementing Procedure</i>	<b>No.</b> EPIP-ENV-02	<b>Rev.</b> W
	<b>Title</b> Environmental Monitoring Team Activation	
	<b>Date</b> JUN 15 2000	<b>Page</b> 1 of 3
<b>Reviewed By</b> <i>William M. Burt</i>	<b>Approved By</b> <i>David R. Schubert</i>	
<b>Nuclear Safety Related</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>PORC Review Required</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>SRO Approval Of Temporary Changes Required</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## 1.0 Purpose

- 1.1 This procedure provides instruction for timely activation of the Environmental Monitoring Teams (EMTs) at the Site Boundary Facility (SBF).

## 2.0 General Notes

- 2.1 None

## 3.0 Precautions and Limitations

- 3.1 IF the SBF is locked, THEN obtain the key from the KNPP Security Building.
- 3.2 Do not wrap, in plastic, the detector of any instrument that can be used to measure beta radiation (i.e., ERM-2, ESP-2, and ASP-1). Wrapping the detector in plastic during operation may shield beta radiation. Instruments and their detectors may be placed in a plastic bag to prevent contamination while being transported.
- 3.3 Operation of all portable survey instruments shall be in accordance with EPIP-ENV-04A, Portable Survey Instrument Use.

## 4.0 Initial Conditions

- 4.1 The EMTs shall be activated when an emergency has been classified as an **Alert**, a **Site Emergency** or **General Emergency**, or at the discretion of the Emergency Response Manager (ERM) or Emergency Director (ED).

## 5.0 Procedure

- 5.1 The first EMT member arriving at the SBF will assume the responsibility of the activation leader and shall:
- 5.1.1 Place his/her name on the EMT status board at the SBF.
- 5.1.2 IF appropriate, THEN relinquish the duty of activation leader to a more senior EMT member upon his/her arrival and note the turnover on the status board.

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- 5.1.3 Assign the EMT personnel to teams as they arrive at the SBF.
- a. Staff each team with a full complement of personnel, beginning with Team A. Proceed with staffing Team B and finally, Team C, only when preceding teams are fully staffed.
  - b. IF conditions permit, THEN assign at least 3 members to each team.
  - c. Reassign team members as necessary to ensure effective distribution of knowledge, experience, and skills on each EMT.
  - d. Record EMT assignments on the EMT status board at the SBF.
  - e. IF insufficient numbers of personnel are available, THEN the activation leader may assign him/herself to one of the teams.
- 5.1.4 Direct each team to complete Form EPIP-ENV-02-01, EMT Activation Checklist, and to place the required equipment in the team vehicle.
- 5.1.5 Verify teams are implementing orders in accordance with EPIP-ENV-04D Attachment A, EMT Standing Order SO-1, Attachment B, EMT Standing Order SO-2, or Attachment C, EMT Standing Order SO-3, or as otherwise directed.
- Note**  
*First team activated should perform EMT Standing Order SO-1, second team should perform EMT Standing Order SO-2, and third team should perform EMT Standing Order SO-3.*
- 5.1.6 Report the names of any remaining EMT members not assigned in step 5.1.3 to the Environmental Monitoring Team Coordinator (EMTCd) or the Radiological Analysis Facility (RAF).
- 5.1.7 IF problems with the instruments are encountered, THEN contact the EOF, SBF Coordinator, or RAF for assistance.
- 5.1.8 Remain at the SBF and await further instructions from the EOF or RAF.

## 6.0 Final Conditions

- 6.1 This procedure is complete when all required EMTs are activated and operational.

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## 7.0 References

- 7.1 EPIP-ENV-01, Environmental Monitoring Group Organization and Responsibilities
- 7.2 EPIP-ENV-04A, Portable Survey Instrument Use
- 7.3 EPIP-ENV-04B, Air Sampling and Analysis
- 7.4 EPIP-ENV-04C, Ground Deposition Sampling and Analysis
- 7.5 EPIP-ENV-04D, Plume Tracking for Environmental Monitoring Teams

## 8.0 Records

- 8.1 The following QA records and non-QA records are identified in this directive/procedure and are listed on the KNPP Records Retention Schedule. These records shall be maintained according to the KNPP Records Management Program.

### 8.1.1 QA Records

- EMT Activation Checklist, Form EPIPF-ENV-02-01
- EMT Status, Form EPIPF-ENV-01-02

### 8.1.2 Non-QA Records

None

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Nuclear Safety Related <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	PORC Review Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	SRO Approval Of Temporary Changes Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## 1.0 Purpose

- 1.1 This procedure provides instruction for using portable survey instruments used by the Environmental Monitoring Teams (EMTs).

## 2.0 General Notes

- 2.1 Environmental Monitoring Teams are responsible for following this procedure when using portable survey instruments.

## 3.0 Precautions and Limitations

- 3.1 Do not wrap, in plastic, the detector of any instrument that can be used to measure beta radiation (i.e., ERM-2, ESP-2, and ASP-1). Wrapping the detector in plastic during operation may shield beta radiation. Instruments and their detectors may be placed in a plastic bag to prevent contamination while being transported.
- 3.2 When using the ESP-2, ensure that the appropriate detector is selected on the instrument prior to actually connecting the detector to the ESP-2. This is done to prevent damaging the detector.
- 3.3 Each instrument and its attached detector have been calibrated as a set. **DO NOT** interchange instruments and detectors unless authorized by the Radiation Protection Group. Interchanging instruments and detectors invalidates the instrument/detector calibration.

## 4.0 Initial Conditions

- 4.1 This procedure is used during a declared plant emergency by the EMTs when operating portable survey instruments.

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## 5.0 Procedure

### Note

*Preoperational instrument checks are documented on Form EPIPF-ENV-02-01, EMT Activation Checklist.*

### Note

*IF any instrument fails a preoperational check, THEN obtain a spare instrument OR contact the RPO/RAF for assistance.*

5.1 Prior to using any portable survey instruments, perform a preoperational instrument check which consists of:

- Inspecting the instrument for deterioration or defect (frayed electrical connections, broken meter face, etc.).
- Verifying the instrument has been calibrated within the due date listed on the instrument calibration sticker.
- Verifying the batteries are satisfactory.
- Verifying the instrument response to a check source is satisfactory.

5.2 Operate the ESP-2 with the HP-260 "PART"

5.2.1 Press the **ON/OFF** button.

5.2.2 Perform a battery check.

- a. Examine the first character space in the upper left hand corner of the display.
- b. IF the first character is blinking OR if no display appears, THEN the batteries need to be replaced (IF neither occurs, THEN the batteries are satisfactory).

5.2.3 Press the **MODE/STORE** button to select the proper detector/parameters.

5.2.4 Select the **HP-260 PART** detector.

- a. Press "-" to select parameters.
- b. Press **RESET** to cycle through available detectors.
- c. Answer the questions using "-" for no and "+" for yes.
- d. WHEN the detector to be used is displayed, THEN press **MODE/STORE** which will put the detector in the operate mode.

5.2.5 On the right side of the instrument handle, place the GROSS/PHA switch to the **GROSS** mode.

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5.2.6 Identify the cable end labeled HP-260, THEN connect it to the HP-260 detector.

5.2.7 Identify the cable end labeled ESP-2, THEN connect it to the ESP-2 instrument.

**Note**

*Small raised bumps on the HP-260 detector face should prevent contamination of the detector by the sample.*

5.2.8 Use one of the following techniques to perform a sample count:

- a. For an instrument response to a check source, place the check source on a flat surface, THEN place the detector directly on contact with the check source.
- b. For a background count, hold the detector in the air.
- c. For a particulate filter sample count, place the particulate filter sample to be counted on a flat surface, THEN place the detector directly on contact with the sample.

5.2.9 Press **RESET** to start a one minute count.

**Note**

*Upon completion of the count, the ESP-2 will beep and display the results in units of  $\mu\text{Ci/cc}$ .*

**Note**

*Readings are sensitive to the check source/sample position on the detector. The instrument response to a check source reading should be within + or - 20% of the required check source reading written on the calibration sticker.*

5.2.10 IF performing an instrument response to check source, THEN compare the check source reading with the required check source reading on the instrument calibration sticker.

5.2.11 IF performing a background count, THEN go to EPIP-ENV-04B, Air Sampling and Analysis, step 5.3.2.

5.2.12 IF performing a particulate filter sample count, THEN go to EPIP-ENV-04B, Air Sampling and Analysis, step 5.3.2.

5.2.13 IF another count using this mode is desired, THEN press **RESET** to start a new one minute count.

5.2.14 Press the **ON/OFF** button to turn the instrument off.

5.2.15 Disconnect the detector from the instrument.

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5.3 Operate the ESP-2 with the HP-260 "GAS"

- 5.3.1 Press the **ON/OFF** button.
- 5.3.2 Perform a battery check.
  - a. Examine the first character space in the upper left hand corner of the display.
  - b. IF the first character space is blinking OR if no display appears, THEN the batteries need to be replaced (IF neither occurs, THEN the batteries are satisfactory).
- 5.3.3 Press the **MODE/STORE** button to select the proper detector/parameters.
- 5.3.4 Select the **HP-260 GAS** detector.
  - a. Press "-" to select parameters.
  - b. Press **RESET** to cycle through the available detectors.
  - c. Answer questions using "-" for no and "+" for yes.
  - d. WHEN the detector to be used is displayed, THEN press **MODE/STORE** which will put the detector in the operate mode.
- 5.3.5 On the right side of the instrument handle, place the GROSS/PHA switch to the **GROSS** mode.
- 5.3.6 Identify the cable end labeled HP-260, THEN connect it to the HP-260 detector.
- 5.3.7 Identify the cable end labeled ESP-2, THEN connect it to the ESP-2 instrument.
- 5.3.8 Use one of the following techniques to perform a sample count:
  - a. For an instrument response to a check source, place the check source on a flat surface, THEN place the detector directly on contact with the check source.
  - b. For a background count, hold the detector in the air.
  - c. For a marinelli beaker sample count, insert the detector inside the deep well portion of the inverted marinelli beaker with the detector window of the detector facing into the large volume of the marinelli.
- 5.3.9 Press **RESET** to start a one minute count.

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**Note**

*Upon completion of the count, the ESP-2 will beep and display the results in units of  $\mu\text{Ci/cc}$ .*

**Note**

*Readings are sensitive to the check source/sample position on the detector. The instrument response to a check source reading should be within + or - 20% of the required check source reading written on the calibration sticker.*

- 5.3.10 IF performing an instrument response to check source, THEN compare the check source reading with the required check source reading on the instrument calibration sticker.
- 5.3.11 IF performing a background count, THEN go to EPIP-ENV-04B, Air Sampling and Analysis step 5.3.3.
- 5.3.12 IF performing a marinelli beaker sample count, THEN go to EPIP-ENV-04B, Air Sampling and Analysis step 5.3.3.
- 5.3.13 IF another count using this mode is desired, THEN press **RESET** to start a new one minute count.
- 5.3.14 Press the **ON/OFF** button to turn the instrument off.
- 5.3.15 Disconnect the detector from the instrument.
- 5.4 Operate the ESP-2 with the SPA-9 "I-131" Detector
  - 5.4.1 Press the **ON/OFF** button.
  - 5.4.2 Perform a battery check.
    - a. Examine the first character space in the upper left hand corner of the display.
    - b. IF the first character space is blinking OR if no display appears, THEN the batteries need to be replaced (IF neither occurs, THEN the batteries are satisfactory).
  - 5.4.3 Press the **MODE/STORE** button to select the proper detector/parameters.

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- 5.4.4 Select the **SPA-9 I-131** detector.
- a. Press “-” to select parameters.
  - b. Press **RESET** to cycle through the available detectors.
  - c. Answer questions using “-” for no and “+” for yes.
  - d. WHEN the detector to be used is displayed, THEN press **MODE/STORE** which will put the detector in the operate mode.
- 5.4.5 On the right side of the instrument handle, place the GROSS/PHA switch to the **PHA** mode.
- 5.4.6 Identify the cable end labeled SPA-9, THEN connect it to the SPA-9 detector.
- 5.4.7 Identify the cable end labeled ESP-2, THEN connect it to the ESP-2 instrument.
- 5.4.8 Loosen the thumb screw to remove the SPA-9 detector from the portable shield.
- 5.4.9 Use one of the following techniques to perform a sample count:
- a. For an instrument response to a check source, place the check source on a flat surface, THEN place the detector directly on contact with the check source.
  - b. For a background count, place the detector into the portable shield.
  - c. For a silver zeolite cartridge sample count:
    1. Place the silver zeolite cartridge (with arrow pointing downward) into the portable shield.
    2. Place the SPA-9 detector into the shield on top of the cartridge.
    3. IF the cartridge does not fit into the portable shield, THEN perform the following steps:
      - (i) Unscrew the bottom plate of the shield and place the cartridge on the bottom plate.
      - (ii) Place the shield on top of the cartridge.
      - (iii) Place the SPA-9 detector into the shield on top of the cartridge.
- 5.4.10 Press **RESET** to start a one minute count.

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**Note**

*Upon completion of the count, the ESP-2 will beep and display the results in units of  $\mu\text{Ci/cc}$ .*

**Note**

*Readings are sensitive to the check source/sample position on the detector. The instrument response to a check source reading should be within + or - 20% of the required check source reading written on the calibration sticker.*

- 5.4.11 IF performing an instrument response to check source, THEN compare the check source reading with the required check source reading on the instrument calibration sticker.
  - 5.4.12 IF performing a background count, THEN go to EPIP-ENV-04B, Air Sampling and Analysis step 5.3.1.
  - 5.4.13 IF performing a silver zeolite cartridge sample count, THEN go to EPIP-ENV-04B, Air Sampling and Analysis step 5.3.1.
  - 5.4.14 IF another count using this mode is desired, THEN press **RESET** to start a new one minute count.
  - 5.4.15 Press the **ON/OFF** button to turn the instrument off.
  - 5.4.16 Disconnect the detector from the instrument.
- 5.5 Operate the Xetex 415A Digital Dosimeter

**Note**

*Xetex 415A Digital Dosimeter does not require a source check.*

- 5.5.1 Place dosimeter **ON/OFF** switch in the **ON** position.
- 5.5.2 Perform a battery check.
  - a. Depress the push button to light the display.
    - IF the battery is satisfactory, THEN the red battery light will be lit.
    - IF the battery is unsatisfactory, THEN the red battery light will not be lit and the batteries need to be replaced.
- 5.5.3 Depress the push button to light the display. IF the digital dosimeter is not reading zero, THEN re-zero the dosimeter.
  - a. To re-zero the dosimeter, depress the **RESET** button, located below the **CHIRP RATE** switch next to the belt clip, with a thin rod placed into the reset hole.

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- 5.5.4 Place the **CHIRP RATE** switch in the **L** position for one chirp per mR of accumulated exposure (**H** position gives twenty chirps per mR).
- 5.5.5 Depress the push button to obtain accumulated exposure (in mR).
- 5.5.6 Place dosimeter **ON/OFF** switch in the **OFF** position when the digital dosimeter is no longer in use.

5.6 Operate the ERM-2 with HP-270 Detector

- 5.6.1 Locate the knobs on front of the instrument storage case, THEN open the instrument storage case door panel by turning the knobs to the right.
- 5.6.2 Remove the cover plate protecting the detector controls.

**Note**

*The ERM-2 must be disconnected from its AC power source BEFORE and DURING the performance of a battery check.*

- 5.6.3 Press the **ON/OFF** button.
- 5.6.4 Perform a battery check.
  - a. Examine the first character space in the upper left hand corner of the display.
  - b. IF the first character space is blinking or if no display appears, THEN the batteries need to be replaced (IF neither occurs, THEN the batteries are satisfactory).
- 5.6.5 Perform an instrument response to a check source.

**Note**

*Readings are sensitive to the check source/sample position on the detector. The instrument response to a check source reading should be within + or - 20% of the required check source reading written on the calibration sticker.*

- a. With the beta window closed, place the side of the HP-270 detector directly on contact with the check source.
- b. Compare the check source reading with the required check source reading on the instrument calibration sticker.

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**Note**

*The top number on the display is the current exposure rate (in units or subunits of R/Hr) and the bottom number shows the last number stored in memory and changes only after a preset count time.*

5.6.6 Perform a radiation survey.

**Note**

*Survey readings are normally taken with the beta window closed (gamma only).*

- a. Determine the gamma radiation level.
  1. Hold the detector, with the beta window closed, approximately 1 meter above the ground.
- b. Determine the corrected beta radiation level.
  1. Open the beta window by sliding the rubber sleeve toward the cable end of the detector.
  2. With the beta window open, hold the survey detector approximately 1 meter above ground to determine the beta/gamma reading.
  3. Subtract the reading taken in step 5.6.6.a.1 from the reading taken in step 5.6.6.b.2 to obtain the uncorrected beta reading.  
(Uncorrected beta reading = beta/gamma reading - gamma reading)
  4. Multiply the uncorrected beta reading obtained in step 5.6.6.b.3 by the beta correction factor (BCF) listed on the instrument calibration sticker to obtain the corrected beta radiation level.  
(Corrected beta radiation level = uncorrected beta reading x BCF)

5.6.7 Determine the presence of ground deposition.

- a. Perform steps 5.6.6.a and 5.6.6.b holding the detector at 1 meter AND approximately 3" above the ground.
- b. Compare the corrected beta reading taken at 3" to the reading taken at 1 meter.

**Note**

*Higher corrected beta radiation levels at 3" as compared to 1 meter indicate the presence of ground deposition.*

5.6.8 When storing the instrument for long durations, press the **ON/OFF** button to turn the instrument off and plug into a standard AC outlet.

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5.7 Operate the ASP-1 with the HP-260 Detector

5.7.1 Perform a battery check.

- a. Place the selector switch to the **BATTERY CHECK** position.
- b. Confirm the meter indicates within the "BATT OK" area.
  1. IF NOT OK, THEN the batteries need to be replaced.

5.7.2 Perform an instrument response to a check source.

**Note**

*Readings are sensitive to the check source/sample position on the detector. The instrument response to a check source reading should be within  $\pm 20\%$  of the required check source reading written on the calibration sticker.*

- a. Place the **HP-260** detector directly on contact with the check source.
- b. Place the **SELECTOR** switch to a setting that gives an upscale reading, approximately 50% of full scale.
- c. Compare the check source reading with the required check source reading on the instrument calibration sticker.

5.7.3 Perform a contamination survey.

- a. Place the FAST/SLOW instrument response switch to the FAST position.
- b. Hold the detector within 1/2" from the surface (ground, equipment, personnel, etc.) to be surveyed.
- c. Move the detector over the surface to be surveyed at a rate of approximately 2" per second.
- d. Continuously monitor the meter reading and adjust the **SELECTOR** switch multiplication factor so that the meter reads approximately 50% of full scale.
- e. Multiply the meter reading by the selected multiplication factor to determine the contamination level in counts per minute (CPM).

**6.0 Final Conditions**

6.1 Plant Emergency has been terminated or Recovery actions have begun and the Emergency Response Manager has suspended the use of EPIPs.

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## 7.0 References

- 7.1 HP-06.010, Instrument Operating Procedure - ASP-1
- 7.2 HP-06.061, Instrument Operating Procedure - Xetex Model 415A Digital Dosimeter
- 7.3 HP-06.066, Instrument Operating Procedure - ESP-2
- 7.4 HP-06.067, Instrument Operating Procedure - ERM-2
- 7.5 INPO 91-014, Rev. 01, Guidelines for Radiological Protection at Nuclear Power Stations, October 1995

## 8.0 Records

- 8.1 The following QA records and non-QA records are identified in this directive/procedure and are listed on the KNPP Records Retention Schedule. These records shall be maintained according to the KNPP Records Management Program.

- 8.1.1 QA Records

- None

- 8.1.2 Non-QA Records

- None

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Nuclear Safety Related	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	PORC Review Required	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	SRO Approval Of Temporary Changes Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## 1.0 Purpose

- 1.1 This procedure provides instruction for the First Aid Attendant or In-Plant Radiation Emergency Team (RET) member who accompanies a contaminated injured person to the Aurora Medical Center in Two Rivers, Wisconsin.

## 2.0 General Notes

- 2.1 The hospital staff will have boundaries and barricades established and manned at the hospital in accordance with their "Condition Alert Nuclear" procedure.
- 2.2 The hospital staff is familiar with contamination control in a biological sense.
- 2.3 Contamination control equipment, materials, and forms are available in the Hospital Decontamination Room.

## 3.0 Precautions and Limitations

- 3.1 Limit the spread of contamination to the smallest area possible. **DO NOT** jeopardize patient care and treatment because of contamination control but instead keep track of potential spread for future decontamination efforts.
- 3.2 IF conflicts of authority arise between any of the hospital staff and your health physics duties, THEN resolve them as quickly as possible by contacting:
- 3.2.1 Emergency Room Nurse - P.M. Supervisor
  - 3.2.2 Chief Engineer
  - 3.2.3 Director of Nursing Services
  - 3.2.4 Hospital Administrator

## 4.0 Initial Conditions

- 4.1 None

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## 5.0 Procedure

- 5.1 Contact Emergency Room Nurse or alternate to coordinate efforts.
- 5.2 Ensure that the hospital staff involved with the contaminated injury are wearing adequate protective clothing and that proper dosimetry has been issued as the situation dictates.
- 5.3 Establish and stock the entry and dressing area going into the RCA in conjunction with Emergency Room Nurse or alternate.
- 5.4 Establish and stock the personnel/equipment monitoring station area in conjunction with Emergency Room Nurse or alternate.

### **Note**

*Determine an area that can be used for storage of contaminated waste and equipment until decontamination operations can be started.*

- 5.5 Monitor all equipment and personnel leaving the RCA of the hospital for radioactive contamination.
- 5.6 Monitor the private ambulance or other transport vehicle and crew for contamination prior to release. Hold all contaminated articles and equipment at the hospital for future decontamination.

### **Note**

*Contact the Radiological Protection Director (RPD) and inform him of ambulance or emergency vehicle status. Determine if it is needed at the Kewaunee Plant to transfer another injured person.*

- 5.7 Upon termination of "Condition Alert Nuclear" at the Aurora Medical Center, contact the RPD. Perform a complete contamination smear survey within all controlled areas using the appropriate Hospital Survey, Forms EPIPF-RET-08-03 or EPIPF-RET-08-06.
- 5.8 Report to the RPD the results of the contamination survey and the scope of the decontamination tasks.
- 5.9 Perform a complete smear survey of all decontaminated areas and equipment to ensure that all levels are less than 100 dpm/100 cm<sup>2</sup> prior to release.

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- 5.10 Perform an inventory of emergency equipment maintained at the hospital by completing Form HPF-115, Section F, in accordance with EPMP-10.01. Restock and replenish supplies as required. If any of the thermoluminescent dosimeter (TLD) badges kept at the hospital by Point Beach Nuclear Plant were used, ensure that Point Beach is notified of this for dosimetry record purposes.
- 5.11 Complete a list of all other hospital and ambulance equipment that could not be decontaminated to less than 100 dpm/100 cm<sup>2</sup> and attach this list to the Form HPF-115 inventory. Route completed inventory and attached lists to the RPD.

## 6.0 Final Conditions

- 6.1 None

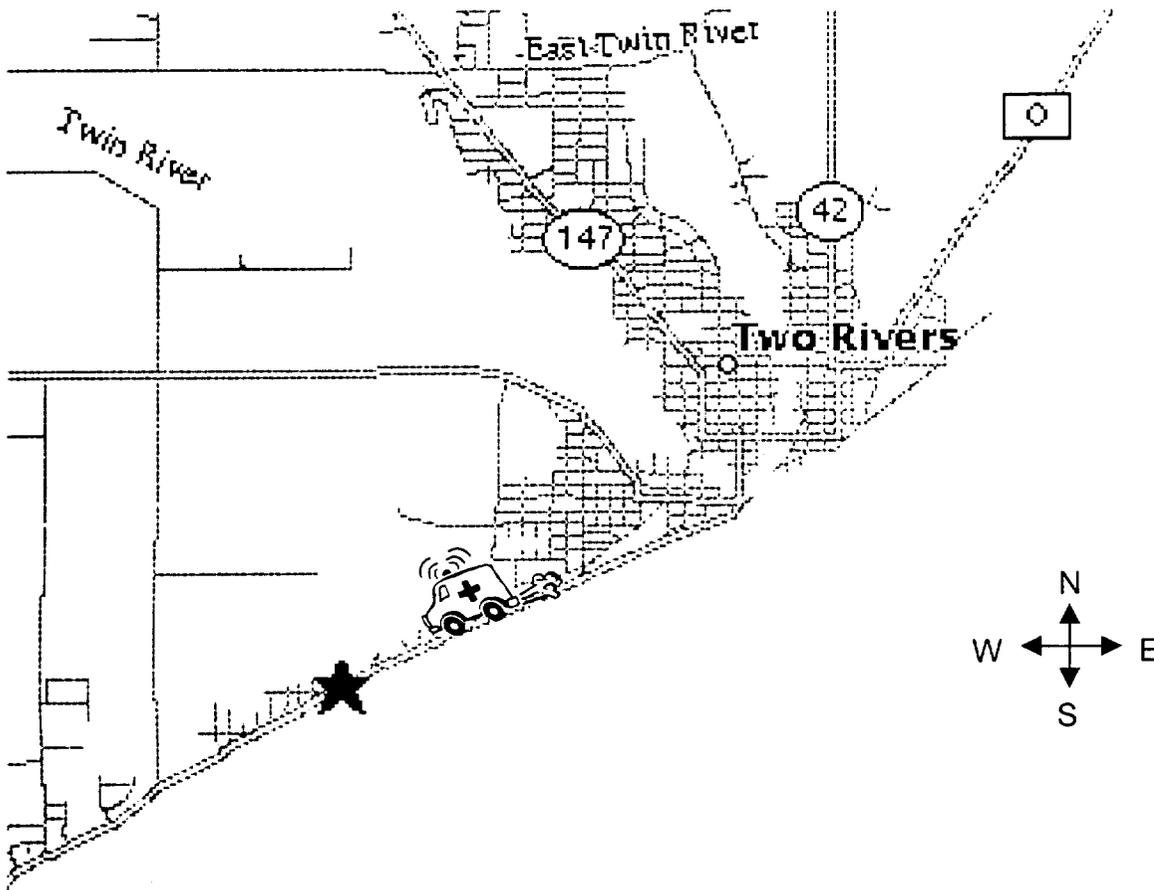
## 7.0 References

- 7.1 NAD-02.09, Occupational Injuries or Vehicle Accident
- 7.2 HP-03.007, Personnel Decontamination
- 7.3 Aurora Medical Center - Condition Alert Nuclear
- 7.4 EPMP-10.01, Emergency Equipment Inventory
- 7.5 EIPs Appendix B, Forms
- 7.6 Figure EPIPFG-RET-08-01, Aurora Medical Center Location

## 8.0 Records

- 8.1 The following QA records and non-QA records are identified in this directive/procedure and are listed on the KNPP Records Retention Schedule. These records shall be maintained according to the KNPP Records Management Program.
- 8.1.1 QA Records
- Hospital Survey 1, Form EIPF-RET-08-03
  - Hospital Survey 4, Form EIPF-RET-08-06
- 8.1.2 Non-QA Records
- None

# AURORA MEDICAL CENTER LOCATION



## ESTIMATED DRIVING INFORMATION

**From:**  
North 490, Hwy 42  
Kewaunee, WI

**To:**  
5000 Memorial Drive  
Two Rivers, WI

**Facts:**  
Approx. 16.5 miles  
Approx. 25 mins

<b>WISCONSIN PUBLIC SERVICE CORP.</b>		<b>No.</b> EPIP-APPX-A-2	<b>Rev.</b> BG
<b>Kewaunee Nuclear Power Plant</b>		<b>Title</b> Response Personnel Call List	
<i>Emergency Plan Implementing Procedure</i>		<b>Date</b> <del>5/15/00</del> JUN 15 2000	<b>Page</b> 1 of 3
<b>Reviewed By</b> <i>[Signature]</i>		<b>Approved By</b> <i>[Signature]</i>	
<b>Nuclear Safety Related</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>PORC Review Required</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		<b>SRO Approval Of Temporary Changes Required</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## 1.0 Purpose

- 1.1 This appendix provides a consolidated list of all Emergency Response Organization (ERO) members sorted three ways:
- By facility, then ERO position
  - Accountability Coordinators by Facility
  - All members alphabetically

## 2.0 General Notes

- 2.1 This appendix may be used as a reference document for any declared emergency as defined in EPIP-AD-02, Emergency Class Determination.

## 3.0 Precautions and Limitations

- 3.1 This appendix is updated and published quarterly. Changes made to the ERO between quarterly updates are managed in the WPSR Corporate Database "PeopleSoft."

## 4.0 Initial Conditions

- 4.1 This appendix is used for reference during an emergency at the Kewaunee Nuclear Power Plant.

## 5.0 Procedure

- 5.1 This appendix will be updated quarterly.

## 6.0 Final Conditions

- 6.1 Plant Emergency has been Terminated or Recovery actions have begun and the Emergency Response Manager has suspended the use of EIPs.

<b>WISCONSIN PUBLIC SERVICE CORP.</b>  <b>Kewaunee Nuclear Power Plant</b>  <i>Emergency Plan Implementing Procedure</i>	<b>No.</b>	EPIP-APPX-A-2	<b>Rev.</b>	BG
	<b>Title</b>	Response Personnel Call List		
	<b>Date</b>	JUN 15 2000	<b>Page 2 of 3</b>	

## 7.0 References

### 7.1 Attachments

- EPIP Table Appx-A-2.1, Appx-A-2 - Response Personnel Call List (Facility)
- EPIP Table Appx-A-2.2, Appx-A-2 - Response Personnel Call List (Accountability Coordinators)
- EPIP Table Appx-A-2.3, Appx-A-2 - ERO Qualified Personnel Assignments (Response Personnel Sorted By Name)

### 7.2 EPMP-05.03, Telephone Number Quarterly Review

## 8.0 Records

8.1 The following QA records and non-QA records are identified in this directive/procedure and are listed on the KNPP Records Retention Schedule. These records shall be maintained according to the KNPP Records Management Program.

### 8.1.1 QA Records

None

### 8.1.2 Non-QA Records

None

**Appx-A-2 - Response Personnel Call List  
(Facility)  
EPIP Table Appx-A-2.1**

Name	Primary Job	Secondary Job	Work Location	Work Phone	Home Phone	Pager Ext
------	-------------	---------------	---------------	------------	------------	-----------

**Appx-A-2 - Response Personnel Call List  
(Accountability Coordinators)  
EPIP Table Appx-A-2.2**

Work Location	Name	Primary Job	Time Contacted	Work Phone	Home Phone	Pager Ext
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**Appx-A-2 – ERO Qualified Personnel Assignments  
(Response Personnel Sorted By Name)  
EPIP Table Appx-A-2.3**

Employee	Primary Job	Secondary Job	Work Location	Work Phone	Home Phone
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The data contained on the attached tables have been intentionally omitted from external copies of this document.

This data is withheld to ensure the privacy of the employees of Wisconsin Public Service Corporation and off-site support groups which have supplied personal information for internal use by Wisconsin Public Service Corporation. It has also been done to ensure the security of the Kewaunee Nuclear Power Plant Emergency Communications Systems.

All company-held copies of this appendix do contain the telephone numbers and other communication data needed to ensure a prompt response of on-site and off-site support groups over the established communication systems.

<b>WISCONSIN PUBLIC SERVICE CORP.</b>  <b>Kewaunee Nuclear Power Plant</b>  <i>Emergency Plan Implementing Procedure</i>	<b>No.</b> EPIP-APPX-A-3	<b>Rev.</b> BI
	<b>Title</b> Off-Site Telephone Numbers	
	<b>Date</b> JUN 15 2000	<b>Page</b> 1 of 7
<b>Reviewed By</b> <i>[Signature]</i>	<b>Approved By</b> <i>[Signature]</i>	
<b>Nuclear Safety Related</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>PORC Review Required</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>SRO Approval Of Temporary Changes Required</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## 1.0 Purpose

- 1.1 This appendix provides lists of telephone numbers for contacting:
- Off-site agencies or organizations that may be called to respond or assist during a declared emergency at the Kewaunee Nuclear Power Plant.

## 2.0 General Notes

- 2.1 This appendix may be used as a reference document for any declared emergency. If a listing of KNPP Emergency Response Facility phone numbers is needed, see "WPSC Emergency Response Facility Listing," EPIP-APPX-A-6.

## 3.0 Precautions and Limitations

- 3.1 This appendix is updated quarterly. Between these updates, changes may take place that are not recorded in this appendix.

## 4.0 Initial Conditions

- 4.1 This appendix is implemented during an emergency at the Kewaunee Nuclear Power Plant.

## 5.0 Procedure

- 5.1 Changes in telephone numbers which have occurred since the revision date (in header) will not be reflected in this appendix.
- 5.2 Changes to fax numbers preceded by an "\*" should be updated in the Prairie Systems Fax Broadcast List "008." For further information, reference "WPS Public Affairs Department," Procedure 6.4.1, "Schneider Fax Broadcasting."

## 6.0 Final Conditions

- 6.1 Plant Emergency has been Terminated or Recovery actions have begun and the Emergency Response Manager has suspended the use of EPIPs.

<b>WISCONSIN PUBLIC SERVICE CORP.</b>  <b>Kewaunee Nuclear Power Plant</b>  <i>Emergency Plan Implementing Procedure</i>	<b>No.</b>	EPIP-APPX-A-3	<b>Rev.</b>	BI
	<b>Title</b>	Off-Site Telephone Numbers		
	<b>Date</b>	JUN 15 2000	<b>Page 2 of 7</b>	

## 7.0 References

- 7.1 EPMP-05.03, Telephone Number Quarterly Review
- 7.2 EPIP APPX-A-6, WPSA Emergency Response Facility Telephone Listing
- 7.3 6.4.1, Schneider Fax Broadcasting (WPS Public Affairs Department Procedure)

## 8.0 Records

- 8.1 The following QA records and non-QA records are identified in this directive/procedure and are listed on the KNPP Records Retention Schedule. These records shall be maintained according to the KNPP Records Management Program.

### 8.1.1 QA Records

None

### 8.1.2 Non-QA Records

None

## **OFF-SITE SUPPORT AGENCY TELEPHONE NUMBERS EPIP-APPX-A-3**

The data contained on these pages have been intentionally omitted from external copies of this document.

This data is withheld to ensure the privacy of the employees of Wisconsin Public Service Corporation and off-site support groups which have supplied personal information for internal use by Wisconsin Public Service Corporation. It has also been done to ensure the security of the Kewaunee Nuclear Power Plant Emergency Communications Systems.

All company-held copies of this appendix do contain the telephone numbers and other communication data needed to ensure a prompt response of on-site and off-site support groups over the established communication systems.

# EMT ACTIVATION CHECKLIST

DATE/TIME STARTED: \_\_\_\_\_ / \_\_\_\_\_ TEAM: A B C (Circle One)

ITEM	ACTION	INITIALS
1.	Perform portable survey instrument preoperational checks using EPIP-ENV-04A. a. ESP-2 with HP-260 and SPA-9 probes (Serial # _____) 1) Physical Condition                      SAT / UNSAT (Circle One) 2) Calibration                                SAT / UNSAT 3) Battery                                     SAT / UNSAT 4) Source Response: HP-260 PART                            SAT / UNSAT HP-260 GAS                             SAT / UNSAT SPA-9 I-131                            SAT / UNSAT	
	b. XETEX 415A Digital Dosimeter (Serial # _____) 1) Physical Condition                      SAT / UNSAT (Circle One) 2) Calibration                                SAT / UNSAT 3) Battery                                     SAT / UNSAT 4) Dosimeter ON/rezeroed                SAT / UNSAT 5) Chirp rate set to "L"                  SAT / UNSAT	
	c. ERM-2 with HP-270 probe (Serial # _____) 1) Physical Condition                      SAT / UNSAT (Circle One) 2) Calibration                                SAT / UNSAT 3) Battery                                     SAT / UNSAT 4) Source Response                        SAT / UNSAT	
	d. ASP-1 with HP-260 probe (Serial # _____) 1) Physical Condition                      SAT / UNSAT (Circle One) 2) Calibration                                SAT / UNSAT 3) Battery                                     SAT / UNSAT 4) Source Response                        SAT / UNSAT	
2.	Obtain battery powered air sampler (Model H-810-B2). a. Air sampler serial number: _____ b. Verify air sampler accessories are all available: - Tygon tubing - Gold filter retaining ring - Gold filter housing (2) - Blue cartridge housings (2) - Plastic cartridge seal rings (2)	

## EMT ACTIVATION CHECKLIST

ITEM	ACTION	INITIALS
3.	Obtain Environmental Monitoring Team Kit. <b>NOTE:</b> <i>IF seal is not broken, THEN do not inventory kit. IF seal is broken, THEN inventory kit using most recent revision of Form HPF-115, Emergency Equipment Monthly Inventory.</i>	
4.	Obtain cellular phone and FAX kit.	
5.	Obtain portable high-band radio and whip antenna.	
6.	Obtain personnel dosimetry for each team member: a. High range SRPD (zeroed) b. Low range SRPD (zeroed) c. TLD	
7.	Don a reflective vest (each team member).	
8.	Establish communications with the Environmental Monitoring Team Coordinator (EMTCd) or the RPO/RAF.	
9.	Verify all required equipment is loaded into vehicle to be used by the EMT.	
10.	Activate the vehicle's amber light.	
11.	Obtain current annual TEDE for each team member from the RPO/RAF and record on Form EPIPF-ENV-01-02, EMT Status. <b>NOTE:</b> <i>When steps 1 through 11 above are completed, EMT activation is complete.</i>	
12.	Report the following information to the EMTCd Using Form EPIPF-ENV-01-02, EMT Status: a. Team designator (A, B, or C) b. Team membership (names) c. Current annual TEDE (mRem) d. Date/time activated	
13.	Obtain meteorological and plant status from the EMTCd or the RPO/RAF using Form EPIPF-ENV-01-03, Meteorological and Plant Status Data.	
14.	Synchronize the EMT timepiece(s) with the time from the Honeywell computer. To obtain honeywell computer time, contact the EMTCd or Radiological Protection Director (RPD).	
15.	Initiate Standing Order SO-1, SO-2, or SO-3 according to EPIP-ENV-04D, Plume Tracking for Environmental Monitoring Teams, or other orders as directed.	

DATE/TIME COMPLETED: \_\_\_\_\_ / \_\_\_\_\_

Maintain completed checklist in EMT Log.

