



Kewaunee Nuclear Power Plant
N490, State Highway 42
Kewaunee, WI 54216-9511
920-388-2560

Operated by
Nuclear Management Company, LLC



October 2, 2001

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, attached is the latest revisions to the Kewaunee Nuclear Power Plant Radiological Emergency Response Plan Implementing Procedures (EPIPs). 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,

Thomas J. Webb
Site Licensing Director

SLC

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.

A045

October 2, 2001

EMERGENCY PLAN IMPLEMENTING PROCEDURES TRANSMITTAL FORM

RETURN TO DIANE FENCL - KNPP

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T. Webb - NRC Resident Inspector (4) (receives Appx. A phone numbers)*	
T. Webb - State of Wisconsin (5)*	Jim Holthaus - Nuclear Management Company (12)*
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P&FS Adm - GB D2-3 (EOF) (81)	W. Galarneau - RAF (53)
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W. Galarneau - Aurora Medical Center (118, 119)	N. Deda - Security Building (120)
W. Flint - Cold Chem/HR Sample Room (113)	S. VanderBloomen (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	AB	03-20-2001
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* EP-TSC-8B was totally deleted; therefore, EP-TSC-8C was changed to EP-TSC-8B			
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RET 2B.3	Auxiliary Building Stack (Sping Reading)	C	04-16-96
RET 2B.4	Containment Stack (Sping Reading)	B	04-16-96
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RET-04-01	SAM-2 Counting Equipment Worksheet	E	06-12-2001
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TSC 8A.3	Steam Release Data/Calculation Sheet (Open Valve)	D	02-14-95
TSC 8A.4	Steam Release Data/Calculation Sheet (STMRLS Program)	C	04-16-96
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
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TSC 9A.4	Core Damage Based on Activity Ratios	C	02-14-95
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TSC 9A.6	Core Damage Summary	C	02-14-95

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>		No.	EPIP-ENV-01	Rev.	V
		Title	Environmental Monitoring Group Organization and Responsibilities		
		Date	OCT 02 2001	Page 1 of 6	
Reviewed By <i>Marynette Herndon</i>		Approved By <i>John M. Smith</i>			
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 Environmental Monitoring Group for formulating and recommending timely Protective Action Recommendations (PARs) to the Emergency Response Manager.

2.0 General Notes

- 2.1 PARs are developed using plant data, field data and off-site dose projections.
- 2.2 Collect data using the following techniques in the order presented.
- 2.2.1 Project the Total Effective Dose Equivalent (TEDE) based on information provided by available plant sources including meteorological and radiological release data.
- 2.2.2 Activate the Environmental Monitoring Teams (EMTs) to determine the boundaries of a radioactive spill or plume, and the total area affected.
- 2.2.3 Collect samples to determine the isotopic makeup of the plume or spill.
- 2.2.4 Sampling area for the Environmental Monitoring Teams (EMTs) extends from the protected area fence to a 10 mile radius of the plant. Areas monitored and sampled by the EMTs may include areas such as the access road, parking lot(s), training facilities or other locations on-site but outside the protected area fence as needed.

3.0 Precautions and Limitations

- 3.1 EMTs should NOT enter areas where projected or measured external radiation dose rates exceed 1 R/hr without specific direction from the Environmental Protection Director (EPD) or Radiological Protection Director (RPD).

4.0 Initial Conditions

- 4.1 This procedure may be implemented at the declaration of an Unusual Event.
- 4.2 Activate the EMTs when an Alert, Site Emergency, General Emergency is declared.

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No.	EPIP-ENV-01	Rev.	V
	Title	Environmental Monitoring Group Organization and Responsibilities		
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5.0 Procedure

5.1 Environmental Protection Director (EPD) responsibilities:

- 5.1.1 IF an Unusual Event has been declared, THEN implement EPIP-EOF-03, "Corporate Action for Unusual Event."
- 5.1.2 IF an Alert, Site Area, or General Emergency has been declared, THEN implement EPIP-EOF-04, "Corporate Action for Alert or Higher."

5.2 The Dose Projection Calculator (DPC) shall:

- 5.2.1 Report to the EPD upon arrival at the Emergency Operations Facility (EOF).
- 5.2.2 Assist the EPD in the activation of the Environmental Dispatch Area using Form EPIPF-ENV-01-01, "Environmental Dispatch Area Activation Checklist."
- 5.2.3 During the initial facility activation, complete Form EPIPF-EOF-08-06, "Radiological Status Report," using the following resources:
 - 5.2.3.1 Information posted on the status boards
 - 5.2.3.2 Meteorological data from the following sources:
 - a. Honeywell Plant Process Computer
 - b. Green Bay National Weather Service
 - c. Point Beach Nuclear Plant
 - 5.2.3.3 Obtain current plant status and off-site radiological release information from the following:
 - a. Engineering/Licensing Coordinator
 - b. EOF status boards
 - c. Radiological Analysis Facility (RAF)
 - a. Honeywell Plant Process Computer
- 5.2.4 Provide the information recorded on Form EPIPF-EOF-08-06 to the following personnel:
 - a. Environmental Protection Director (EPD)
 - b. State Radiological Coordinator Liaison (SRCL)
 - c. Environmental Monitoring Team Coordinator (EMTCd)
- 5.2.5 After the initial form is complete, update the Form at least every hour (more frequently if conditions are changing) during the first 4 hours of a declared emergency.

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- 5.2.6 After the initial 4 hours, update the form as conditions change.
- 5.2.7 As directed by the EPD, perform off-site radiological dose projections in accordance with EPIP-ENV-03C, "Dose Projection Using RASCAL Version 2.2 Software."
- 5.2.8 Compare the off-site radiological dose projection results with the following:
 - a. Off-site radiological dose projection results obtained by the RAF
 - b. EMT field data
- 5.2.9 Report the dose projection results and the comparison to the EPD and SRCL.
- 5.2.10 Assist the EPD and EMTCd as necessary.
- 5.2.11 Continue dose assessment activities as directed by the EPD.

5.3 The **Environmental Monitoring Team Coordinator (EMTCd)** shall:

- 5.3.1 Upon arrival at the Emergency Operations Facility (EOF), report to the EPD.
- 5.3.2 Assist EPD in the activation of the Environmental Dispatch area using Form EPIPF-ENV-01-01, "Environmental Dispatch Area Activation Checklist."
- 5.3.3 Obtain meteorological and plant status information from the Dose Projection Calculator (DPC) and complete Form EPIPF-ENV-01-03, "Meteorological and Plant Status Data."
 - 5.3.3.1 IF all of the following meteorological conditions exist, THEN the potential for a lake breeze effect exists.
 - a. KNPP or Point Beach Nuclear Plant (PBNP) wind direction is between 020 and 170 degrees, AND
 - b. Green Bay National Weather Service or PBNP Inland Tower wind direction is between 210 and 330 degrees, AND
 - c. The time is between 0700 and 2000.
 - 5.3.3.2 IF a potential for a lake breeze effect exists, THEN direct EMTs to verify the plume has NOT traveled in a northern or southern direction along the lakeshore.
- 5.3.4 Draw the projected plume on the Emergency Planning Zone (EPZ) grid map located in the Environmental Dispatch Area using the following:
 - 5.3.4.1 Wind direction as the projected plume centerline
 - 5.3.4.2 The projected plume boundaries (based on the stability class) as the lateral edges

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- 5.3.5 Direct the Environmental Monitoring Team Communicator (EMTCm) to establish and maintain communications with the EMTs.
- 5.3.6 With EPD concurrence, develop a strategy and EMT orders for the following:
- Plume tracking
 - Sample collection
 - Sample analysis
- 5.3.6.1 Relay the strategy to the EMTs through the EMTCm.
- 5.3.7 Obtain a copy of Form EPIPF-ENV-01-02, "EMT Status," from the EMTCm.
- Team Designation and team members' names
 - Standing Order implemented by each team
 - Current Annual Dose (TEDE)
 - Date and Time Activated
 - Team Status (EMT activities in progress, location, etc.)
- 5.3.8 Direct the EMTCm to provide the EMTs with initial and updated information from EPIPF-ENV-01-03, "Meteorological and Plant Status Data."

!! Caution !!

To Prevent Injury or Death

Environmental Monitoring Teams (EMTs) should NOT enter areas where projected or measured external radiation dose rates exceed 1 R/hr without specific direction from the EPD or RPD.

Note

EMT members are instructed to report exposure every hour or when 100 mrem has been received.

- 5.3.9 Track the cumulative radiation exposure for each EMT member as follows:
- 5.3.9.1 Obtain deep dose equivalent (DDE) from EMTs every hour.
 - 5.3.9.2 Add the DDE to the current annual TEDE.
 - 5.3.9.3 Direct the EMTCm to periodically report the sum of the current annual TEDE and cumulative DDE to the EMT members.

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5.3.10 IF radiation exposure approaches administrative limits, THEN consider authorization for increased radiation exposure in accordance with HP-01.003, "Administrative Exposure Control and Records."

5.3.11 IF radiological conditions are such that EMTs could exceed 10CFR20 limits THEN consider emergency exposure in accordance with EPIP-AD-11, "Emergency Radiation Controls."

5.3.12 Ensure that all data received from the EMTs is provided to the EPD and DPC in a timely manner.

5.3.13 Plot EMT field data on the EPZ grid map in the Environmental Dispatch Area.

5.3.14 Continue monitoring team activities as directed by the EPD.

5.4 Environmental Monitoring Team Communicator (EMTCm) duties:

5.4.1 Upon arrival at the EOF, report to the EMTCd.

5.4.2 Assist in the activation of the Environmental Dispatch Area using Form EPIPF-ENV-01-01, "Environmental Dispatch Area Activation Checklist."

5.4.3 Establish communications with each activated EMT.

5.4.4 Obtain the information required on EPIP-ENV-01-02, "EMT Status," and forward the form to the EMTCd.

5.4.5 Transmit orders and other information from the EMTCd to the EMTs using the following:

- a. Fax
- b. Cellular phone
- c. Radio

5.4.6 Record information from the EMTs on form EPIPF-ENV-01-04, "EMT Orders/Field Data."

5.4.7 Provide the information to the EMTCd.

5.4.8 Perform the responsibilities of the EMTCm as long as the EMTs are activated.

5.5 The Environmental Monitoring Team (EMT) members shall:

5.5.1 Activate EMTs in accordance with "Environmental Monitoring Team Activation," EPIP-ENV-02.

5.5.2 Implement EPIP-ENV-04D, "Plume Tracking for Environmental Monitoring Teams."

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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.

7.0 References

- 7.1 KNPP Emergency Plan (Appendix D: Letters of Agreement)
- 7.2 EPIP-AD-11, Emergency Radiation Controls
- 7.3 EPIP-ENV-02, Environmental Monitoring Team Activation
- 7.4 EPIP-ENV-03C, Dose Projection Using RASCAL Version 2.2 Software
- 7.5 EPIP-ENV-04D, Plume Tracking for Environmental Monitoring Teams
- 7.6 EPIP-EOF-03, Corporate Action for Unusual Event
- 7.7 EPIP-EOF-04, Corporate Action for Alert or Higher
- 7.8 HP-01.003, Administrative Exposure Control and Records

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

- Environmental Dispatch Area Activation Checklist, Form EPIPF-ENV-01-01
- EMT Status, Form EPIPF-ENV-01-02
- Meteorological and Plant Status Data, Form EPIPF-ENV-01-03
- EMT Orders/Field Data, Form EPIPF-ENV-01-04
- Radiological Status Report, Form EPIPF-EOF-08-06

8.1.2 Non-QA Records

None

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Reviewed By <i>Marynette Herndon</i>		Approved By <i>[Signature]</i>			
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 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

Note

Keys for all SBF doors and cabinets are kept in the Radiation Protection Office (RPO) and will be brought to the facility by the SBF Coordinator when he responds. Keys for the front door only are maintained in security.

- 3.1 IF the SBF is locked, THEN obtain the key from the Security Building.

4.0 Initial Conditions

- 4.1 This procedure may be implemented at the declaration of an Unusual Event.
- 4.2 The EMTs shall be activated when an emergency has been classified as an **Alert**, a **Site Emergency**, or **General Emergency**.

5.0 Procedure

5.1 Activation Leader

- 5.1.1 The first EMT member arriving at the SBF will assume the responsibility of the Activation Leader and shall complete the following steps:
- 5.1.2 Place his/her name on the EMT status board at the SBF.
- 5.1.3 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 EMT status board.

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5.1.4 Assign the EMT personnel to teams as they arrive at the SBF.

- a. Staff each team with a minimum of two members, beginning with Team A.
- b. Proceed with staffing Team B and finally, Team C.
- c. IF manpower is sufficient, THEN assign 3 members to each team.
- d. Direct each team to implement the Standing Orders in EPIP-ENV-04D, "Plume Tracking for Environmental Monitoring Teams."
- e. Record EMT assignments on the EMT status board at the SBF.
- f. IF insufficient numbers of personnel are available, THEN the Activation Leader may assign him/herself to one of the teams.

5.1.5 Direct each team to complete Form EPIP-ENV-02-01, "EMT Activation Checklist."

5.1.7 Report the names of any remaining EMT members not assigned to a team to the Environmental Monitoring Team Coordinator (EMTCd) or the Radiological Analysis Facility (RAF).

5.1.8 IF problems with the instruments are encountered, THEN contact the SBF Coordinator, Emergency Operations Facility (EOF), or Radiological Assessment Facility (RAF) for assistance.

5.1.9 IF problems with the communications equipment are encountered, THEN contact the Environmental Monitoring Team Coordinator (EMTCd).

5.1.10 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

7.5 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

8.1.2 Non-QA Records

None

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Reviewed By <i>Marynette Herndon</i>		Approved By <i>William M. Smith</i>				
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 locating and tracking an airborne radiological release.

2.0 General Notes

- 2.1 None

3.0 Precautions and Limitations

- 3.1 Perform all actions for tracking an airborne radiological release (plume) while keeping personnel exposures As Low As Reasonably Achievable (ALARA).
- 3.2 Environmental Monitoring Teams (EMTs) should NOT enter areas where projected or measured external radiation dose rates exceed 1 R/hr without specific direction from the Environmental Protection Director (EPD) or Radiological Protection Director (RPD).
- 3.3 IF the presence of radioactive iodine in the plume is suspected or detected, THEN refer to EPIP-AD-18, "Potassium Iodide Distribution," for guidance.
- 3.4 Each instrument and its attached probe have been calibrated as a set. Do NOT interchange instruments and probes unless authorized by the Radiation Group. Interchanging instruments and probes invalidates the instrument/probe calibration.

4.0 Initial Conditions

- 4.1 An emergency has been declared and a radiological release (plume) has occurred, is imminent, or in progress.
- 4.2 Off-site monitoring may be implemented to confirm that a radiological release (above normal limits) is not occurring.
- 4.3 EMT activation per EPIP-ENV-02, "Environmental Monitoring Team Activation," is complete.

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5.0 Procedure

5.1 Actions for the EMTs

- 5.1.1 Obtain current annual dose (TEDE) from the Radiological Analysis Facility (RAF) or Emergency Operations Facility (EOF).
- 5.1.2 Contact the EMTCd, AND
 - 5.1.2.1 Relay the annual dose information for each team member.
 - 5.1.2.2 Obtain meteorological and plant conditions.
- 5.1.3 Complete Form EPIPF-ENV-01-03, "Meteorological and Plant Status Data."
- 5.1.4 IF changes or discrepancies in meteorological or plant conditions are observed, THEN report them to the EMTCd.

!! Caution !!

To Prevent Injury or Death

Environmental Monitoring Teams (EMTs) should NOT enter areas where projected or measured external radiation dose rates exceed 1 R/hr without specific direction from the EPD or RPD.

Note

The first team activated should perform EMT Standing Order SO-1, the second team activated should perform EMT Standing Order SO-2, and the third team activated should perform EMT Standing Order SO-3.

- 5.1.5 Implement EMT Standing Orders (SO) based on the team designation as follows:
 - 5.1.5.1 Team A, implement SO-1
 - 5.1.5.2 Team B, implement SO-2
 - 5.1.5.3 Team C, implement SO-3
- 5.1.6 IF any conflicts occur with the performance of orders assigned, THEN immediately contact the EMTCd for resolution.

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5.1.7 Report field data results promptly to the EMTCD or the RPO/RAF.

- a. Use the "EMT Field Data" section of Standing Orders to record Gamma and Beta radiation dose rates.
- b. Use Form EPIPF-ENV-01-04, "EMT Orders/Field Data," for air sample and ground deposition sample analysis results.

5.1.8 WHEN an order is completed, suspended, or terminated, THEN request additional instructions from EMTCD or RPO/RAF.

5.1.9 Continue field monitoring activities as directed by the EMTCD until relieved or activities are terminated.

6.0 Final Conditions

- 6.1 This procedure is complete when all EMT orders (Form EPIPF-ENV-01-04, "EMT Orders/Field Data") have been completed or terminated.

7.0 References

- 7.1 EPIP-AD-18, Potassium Iodide Distribution
- 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-02, Environmental Monitoring Team Activation

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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

- Meteorological and Plant Status Data, Form EPIPF-ENV-01-03
- EMT Orders/Field Data, Form EPIPF-ENV-01-04
- EMT Standing Order SO-1, Attachment A
- EMT Standing Order SO-2, Attachment B
- EMT Standing Order SO-3, Attachment C
- Emergency Planning Zone (EPZ) Grid Map
- Form HPF-114, Map J-1, Physical Layout of Kewaunee Nuclear Power Plant

8.1.2 Non-QA Records

None

EMT STANDING ORDER SO-1

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DATE/TIME: _____

TEAM (Circle One): A B C

ORDER ID: EMT STANDING ORDER SO-1

- INSTRUCTIONS:**
- (1) Locate the plume centerline in the vicinity of the site boundary by performing Gamma radiation dose rate surveys according to EPIP-ENV-04A, "Portable Survey Instrument Use."
 - (2) During a radioactive release, read dosimeters every 15 minutes.
Report dosimeter readings every hour or every 100 mrem (whichever comes first) to the EMTCd.
 - (2) Collect an air sample on plume centerline according to EPIP-ENV-04B, "Air Sampling and Analysis."
 - (3) Deliver air sample to KNPP Security Building or alternate location, if directed.
 - (4) When directed, determine the extent of ground deposition using EPIP-Env-04C, "Ground Deposition Sampling and Analysis."

EMT FIELD DATA

SAMPLE DATE/TIME	GRID COORDINATES	SAMPLE TYPE	READING (mrem/hr)
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr

EMT STANDING ORDER SO-1

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DIRECTIONS FOR REPORTING FIELD DATA:

1. **SAMPLE DATE/TIME** - Enter date/time dose rate reading was taken, date/time air sample collection was completed, or date/time deposition sample was collected.
2. **GRID COORDINATES** - Specify sample location to the nearest one-half of a grid coordinate.
3. **SAMPLE TYPE** - Enter appropriate description.

Iodine (I)
Particulate (P)
Noble Gas (NG)
Dose Rate (DR)
Deposition (DP)

4. **READING** - Enter reading using correct units.

Dose Rate - mrem/hour
Air Sample (Iodine, Particulate, or Noble Gas) - $\mu\text{Ci/cc}$
Deposition - $\text{dpm}/100\text{ cm}^2$ or dpm/smear if $< 100\text{ cm}^2$ is surveyed

EMT STANDING ORDER SO-2

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DATE/TIME: _____

TEAM (Circle One): A B C

ORDER ID: EMT STANDING ORDER SO-2

- INSTRUCTIONS:
- (1) Locate and track the leading boundary (edge) of the plume by performing Gamma radiation dose rate surveys according to EPIP-ENV-04A, "Portable Survey Instrument Use."
 - (2) During a radioactive release, read dosimeters every 15 minutes.
 - (3) Report dosimeter readings every hour or every 100 mrem (whichever comes first) to the EMTCd.
 - (4) When directed, determine the extent of ground deposition using EPIP-ENV-04C, "Ground Deposition Sampling and Analysis."

EMT FIELD DATA

SAMPLE DATE/TIME	GRID COORDINATES	SAMPLE TYPE	READING (mrem/hr)
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr

EMT STANDING ORDER SO-2

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DIRECTIONS FOR REPORTING FIELD DATA:

1. **SAMPLE DATE/TIME** - Enter date/time dose rate reading was taken, date/time air sample collection was completed, or date/time deposition sample was collected.
2. **GRID COORDINATES** - Specify sample location to the nearest one-half of a grid coordinate.
3. **SAMPLE TYPE** - Enter appropriate description.

Iodine (I)
Particulate (P)
Noble Gas (NG)
Dose Rate (DR)
Deposition (DP)

4. **READING** - Enter reading using correct units.

Dose Rate - mrem/hour
Air Sample (Iodine, Particulate, or Noble Gas) - $\mu\text{Ci/cc}$
Deposition - dpm/100 cm^2 or dpm/smear if $< 100 \text{ cm}^2$ is surveyed

EMT STANDING ORDER SO-3

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DATE/TIME: _____

TEAM (Circle One): A B C

ORDER ID: EMT STANDING ORDER SO-3

- INSTRUCTIONS:**
- (1) Locate and track the lateral boundaries (edges) of the plume within 5 miles of KNPP by performing Gamma radiation dose rate surveys according to EPIP-ENV-04A, "Portable Survey Instrument Use."
 - (2) During a radioactive release, read dosimeters every 15 minutes.
Report dosimeter readings every hour or every 100 mrem (whichever comes first) to the EMTCd.
 - (3) WHEN the release is terminated, THEN locate and track the trailing edge of the plume.
 - (4) Report Gamma radiation dose rate readings to EMTCd or RPO/RAF every 15 minutes or more frequently, if directed.
 - (5) When directed, determine the extent of ground deposition using EPIP-Env-04C, "Ground Deposition Sampling and Analysis."

EMT FIELD DATA

SAMPLE DATE/TIME	GRID COORDINATES	SAMPLE TYPE	READING (mrem/hr)
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr
		DR	mrem/hr

EMT STANDING ORDER SO-3

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DIRECTIONS FOR REPORTING FIELD DATA:

1. **SAMPLE DATE/TIME** - Enter date/time dose rate reading was taken, date/time air sample collection was completed, or date/time deposition sample was collected.
2. **GRID COORDINATES** - Specify sample location to the nearest one-half of a grid coordinate.
3. **SAMPLE TYPE** - Enter appropriate description.

Iodine (I)
Particulate (P)
Noble Gas (NG)
Dose Rate (DR)
Deposition (DP)

4. **READING** - Enter reading using correct units.

Dose Rate - mrem/hour
Air Sample (Iodine, Particulate, or Noble Gas) - $\mu\text{Ci/cc}$
Deposition - dpm/100 cm^2 or dpm/smear if $< 100 \text{ cm}^2$ is surveyed

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Reviewed By <i>Marynette Herndon</i>		Approved By <i>[Signature]</i>	
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 In-Plant Radiation Emergency Team (IRET), when activated.

2.0 General Notes

- 2.1 None

3.0 Precautions and Limitations

- 3.1 Depending on the nature, class, and magnitude of the emergency, the following list of priorities should be generally followed by the IRET:
- 3.1.1 Protection of personnel from high levels of radiation through radiation surveys and air activity surveys.
 - 3.1.2 Search and rescue for life saving.
 - 3.1.3 First Aid.
 - 3.1.4 Issue dosimetry and respiratory equipment.
 - 3.1.5 Health Physics (HP) coverage for operation or repair of vital equipment.
 - 3.1.6 Radiologically Controlled Area (RCA) access restrictions.
 - 3.1.7 Assist Fire Brigade.
 - 3.1.8 Sampling for gaseous effluent release characterization.
 - 3.1.9 Off-site dose projection.
 - 3.1.10 Assist Chemistry personnel for primary coolant and containment post accident sampling and analysis.
 - 3.1.11 Assist and support the site and environmental monitoring teams as required.
 - 3.1.12 Document radiation exposures to personnel.

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4.0 Initial Conditions

- 4.1 An Alert or higher emergency has been declared at the Kewaunee Nuclear Power Plant (KNPP).
- 4.2 The In-Plant Radiation Emergency Team (IRET) has been activated.

5.0 Procedure

5.1 In-Plant Radiation Emergency Team (IRET) Activation

- 5.1.1 WHEN notified of an emergency at KNPP, assemble in the Radiation Protection Office (RPO).
- 5.1.2 IF the RPO is not habitable, THEN report to the Radiological Analysis Facility (RAF).

5.2 IRET Duties

- 5.2.1 Implement procedure EPIP-RET-02A, "RPO - RAF Activation."
- 5.2.2 Dispatch an IRET member to the Site Boundary Facility (SBF) to perform the following:
 - a. Assume the duties of the SBF Coordinator.
 - b. Implement EPIP-RET-04, "SBF Activation."
- 5.2.3 Restrict access into the RCA to emergency related activities as authorized by the Emergency Director (ED) or the Radiological Protection Director (RPD).
- 5.2.4 Determine if any abnormal radioactive releases are occurring using EPIP-RET-02B, "Gaseous Effluent Sample and Analysis."
- 5.2.5 IF a radioactive release is imminent or occurring, AND the Technical Support Center/Emergency Operations Facility (TSC/EOF) is NOT activated, THEN complete the following steps:
 - 5.2.5.1 Obtain meteorological conditions from one of the following:
 - a. Plant Information Computer System
 - b. Honeywell Graphic Output in the TSC (Group Number 9 - Meteorological Data)
 - c. Chart recorders in the TSC
 - 5.2.5.2 Perform off-site dose projections per EPIP-ENV-03C, "Dose Projection Using RASCAL Version 2.2 Software."
 - 5.2.5.3 Advise the Shift Manager/Emergency Director (SM/ED) of the results.

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Note

At an Alert or higher, dosimetry will be issued to arriving emergency personnel in the Security Building per EPIP-SEC-04, "Security Force Actions for Dosimetry Issue."

- 5.2.6 IF an Alert or higher is declared, THEN issue dosimetry, to all on-site personnel.
- 5.2.7 WHEN an emergency entry into the RCA is planned, THEN provide radiological protection coverage in accordance with EPIP-AD-11, "Emergency Radiation Controls."
- 5.2.8 Assist in search and rescue operations in controlled areas.
- 5.2.9 Perform surveys outside the RCA to ensure contamination control.
- 5.2.10 If appropriate, plan for a shift relief per EPIP-AD-05, "Emergency Response Organization Shift Relief Guideline."

5.3 In-Plant Radiation Emergency Team Support (IRETS) Personnel

Note

IRETS personnel may perform limited surveys (measure dose rates, collect smears, and air samples). Dose rates will be verified and smears and air samples will be analyzed by a qualified Radiation Protection Technician (RPT).

!! Caution !!

To Prevent Injury or Death

IRET Support personnel should NOT enter areas where radiation levels have a potential to exceed 100 mR/hr.

- 5.3.1 WHEN assigned, perform the following duties:
 - a. Hand out dosimetry.
 - b. IF Potassium Iodide is approved for use, THEN aid in the distribution of the thyroid blocking agents in accordance with EPIP-AD-18, "Potassium Iodide Distribution."
 - c. Monitor for continued habitability of site facilities.
 - d. Perform other duties as assigned by Radiation Protection Supervision.

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5.4 Subsequent Actions

5.4.1 When directed by the RPD or ED, perform the following:

- 5.4.1.1 Emergency surveys in accordance with EPIP-RET-02D, "Emergency Radiation Entry Controls and Implementation."
- 5.4.1.2 Effluent gas sampling in accordance with EPIP-RET-02B.
- 5.4.1.3 Document emergency exposures in accordance with EPIP-AD-11, "Emergency Radiation Controls."
- 5.4.1.4 Interface with Point Beach Nuclear Plant for the following additional support and resources, if needed:
 - Personnel
 - Emergency equipment
 - Sample transportation
 - Sample analysis
 - Assistance with injuries
- 5.4.1.5 Maintain interim storage for highly contaminated samples.
- 5.4.1.6 Evaluate availability and procurement of supplies which may be required.
- 5.4.1.7 Interface with Environmental, Inc. for off-site sample analysis.
- 5.4.1.8 Evaluate methods of recovery planning in accordance with EPIP-AD-15, "Recovery Planning and Termination."

6.0 Final Conditions

6.1 Plant Emergency has been Terminated.

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7.0 References

- 7.1 EPIP-RET-02A, RPO - RAF Activation
- 7.2 EPIP-RET-02B, Gaseous Effluent Sample and Analysis
- 7.3 EPIP-RET-02D, Emergency Radiation Entry Controls and Implementation
- 7.4 EPIP-RET-04, SBF Activation
- 7.5 EPIP-ENV-03C, Dose Projection Using RASCAL Version 2.2 Software
- 7.6 EPIP-SEC-04, Security Force Actions for Dosimetry Issue
- 7.7 EPIP-AD-05, Emergency Response Organization Shift Relief Guideline
- 7.8 EPIP-AD-11, Emergency Radiation Controls
- 7.9 EPIP-AD-15, Recovery Planning and Termination
- 7.10 EPIP-RET-08, Contamination Control at the Aurora Medical Center
- 7.11 EPIP-AD-18, Potassium Iodide Distribution

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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		Title Radiation Protection Office/Radiological Analysis Facility (RPO/RAF) Activation			
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Reviewed By <i>Marynette Herndon</i>		Approved By <i>[Signature]</i>			
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 activation of the RPO/RAF.

2.0 General Notes

- 2.1 None

3.0 Precautions and Limitations

- 3.1 IF the RPO becomes uninhabitable OR high background radiation levels make instrumentation unusable, THEN relocate to the RAF.

4.0 Initial Conditions

- 4.1 An Alert or higher emergency has been declared at the Kewaunee Nuclear Power Plant (KNPP).
- 4.2 The RPO is uninhabitable.
- 4.3 High background radiation levels have caused instrumentation to become unusable.

5.0 Procedure

Note

Unless otherwise stated, the following tasks may be performed in any order or concurrently.

5.1 RPO/RAF Activation

- 5.1.1 IF the emergency occurs on a back shift, THEN the Radiation Technologist(s) on shift shall report to the RPO and control radiological responses until relieved by the incoming In-Plant Radiation Emergency Team (IRET) members and the Radiation Protection Director (RPD).
- 5.1.2 Until relieved, assume the responsibilities of the RPD.

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Note

Site Boundary Facility (SBF) activation is required upon declaration of an ALERT.

5.1.3 Dispatch an IRET member to the SBF to assume the duties of the SBF Coordinator.

5.1.4 Activate the RPO as follows:

- 5.1.4.1 Assign a Radiation Protection Leadman and a support staff (technologists/clerks) to the RPO.
- 5.1.4.2 Direct the Radiation Protection Leadman to process non-essential personnel out of the Auxiliary Building/Containment and maintain personnel accountability.
- 5.1.4.3 Establish Auxiliary Building/Containment accountability as follows:
 - 5.1.4.3.1 Determine who is in the Radiologically Controlled Area (RCA) by checking PMETS System or (if used) the RCA sign-in sheets.
 - 5.1.4.3.2 Notify the RPD immediately of any missing persons.
 - 5.1.4.3.3 IF personnel are believed missing, THEN implement EPIP-OSF-04, "Search and Rescue."
- 5.1.4.4 Set up instrumentation for continuous monitoring of radiation levels in the RPO.
- 5.1.4.5 Perform general area surveys in the following areas:
 - RPO
 - Monitor room
 - Change room
 - Machine Shop
 - Electric Shop
- 5.1.4.6 WHEN airborne grab samples are taken, THEN record the data on Form EPIPF-RET-2A-02, "Emergency Sample Worksheet."
- 5.1.4.7 IF the RPO becomes uninhabitable or unusable due to radiological considerations, THEN activate the RAF.

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5.2 RAF Activation

- 5.2.1 Maintain personnel accountability per EPIP-SEC-03, "Personnel Assembly and Accountability," during the move from the RPO to the RAF.
- 5.2.2 Direct personnel who are NOT members of the Emergency Response Organization (ERO) to another assembly point.
- 5.2.3 Direct evacuating RPO (Radiation Protection and Chemistry) personnel to move the following items to the RAF.
 - a. Calculators
 - b. Walkie-talkies
 - c. Portable radiation survey meters
 - d. Most recent CREWDOSE report
 - e. Master keys and key ring
 - f. Auxiliary Building sign-in sheets (if being used)
 - g. RPO logbook
 - h. Personnel TLD badges and control badges
 - i. First aid responder kit
 - j. Electronic dosimeters

- 5.2.4 Make the following announcement over the plant paging system:

"ATTENTION, ATTENTION: THE RPO HAS BEEN EVACUATED; THE RPO HAS BEEN EVACUATED; ALL CONTROLLED AREA ENTRIES ARE TO BE MADE THROUGH THE RAF."

- 5.2.5 Post signs in the RPO directing personnel to the RAF for entry to the controlled area.
- 5.2.6 Verify operability of the following RAF equipment:
 - a. SPING channel readings (additional resource is the Honeywell graphic output 12 for SPING data, 13 for non-SPING data.).
 - b. Fixed radiation monitoring equipment.
 - c. "RADAC" RMS Control Console.
 - d. Walkie-talkie and base station radio.

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5.2.6.1 WHEN the above checks are complete, THEN notify the following that the RAF is activated:

- RAF staff
- TSC
- EPD (if available)

5.2.7 Periodically (at least every 4 hours) perform radiation surveys in the RAF and TSC to ensure habitability.

5.2.8 IF an Alert or higher is declared based on radiological conditions, OR if directed by the RPD, THEN issue dosimetry to all personnel remaining on-site.

5.2.9 Using the Gai-tronics, direct personnel to monitor their individual dose.

5.2.9.1 IF the Self Reading Dosimeter (SRD) meets any of the following limits, THEN report to the RPO/RAF/SBF to have the SRD re-zeroed:

- a. Reads 150 mR or more
- b. Is found to be off-scale
- c. The end of the work shift

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.

7.0 References

- 7.1 EPIP-SEC-03, Personnel Assembly and Accountability
- 7.2 EPIP-OSF-04, Search and Rescue
- 7.3 COMTRAK 89-305, Item 2
- 7.4 COMTRAK 89-305, Item 3

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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

- Emergency Sample Worksheet, Form EPIPF-RET-02A-02

8.1.2 Non-QA Records

None

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		Title SBF Activation	
		Date OCT 02 2001	Page 1 of 4
Reviewed By <i>Marynette Herndon</i>		Approved By <i>[Signature]</i>	
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 steps to be taken to fully activate the Site Boundary Facility (SBF).

2.0 General Notes

- 2.1 None

3.0 Precautions and Limitations

- 3.1 None

4.0 Initial Conditions

- 4.1 The Environmental Monitoring Team (EMT) has been activated.

5.0 Procedure

5.1 Site Boundary Facility (SBF) Coordinator

- 5.1.1 At the declaration of an Alert or higher, the first available Radiation Protection Technologist in the Radiation Protection Office/Radiological Assessment Facility (RPO/RAF) will perform the following activities to activate the SBF:

1. Obtain the keys to the facility doors and cabinets from the RPO.
2. Report to the SBF and open the facility.
3. Assume the duties of the Site Boundary Facility Coordinator.
4. Activate the SBF as described below.

5.2 Facility Activation

- 5.2.1 Source check the portable survey instrument.
- 5.2.2 Perform background efficiency checks on the counting equipment.
- 5.2.3 Set up the PPM-1 Portal Monitor in accordance with HP-06.085, "Instrument Operating Procedure - PPM-1 Portable Personnel Monitor."

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- 5.2.4 Perform radiation and contamination surveys at the SBF to establish base line radiological conditions.
- 5.2.5 Assist the Emergency Monitoring Teams with set-up or replacement of instrumentation as requested.
- 5.2.6 Notify the Radiation Protection Director (RPD) that the SBF is activated.
- 5.2.7 IF conditions change, THEN update the RPD with the status of radiological conditions at the SBF.

Note

The SAM-2 is used as a back-up counting system (single channel analyzer) in case the MCA in the plant is NOT operable or silver zeolite cartridges can NOT be counted by MCA at the Point Beach Nuclear Plant to determine Iodine-131 concentrations.

- 5.2.8 The SAM-2 is maintained in a "powered-up" and "ready-to-go" condition at all times with only the display turned off. (IF this is NOT the case, THEN set up the SAM-2 in accordance with HP-06.007, "Instrument Operating Procedure - SAM-2.")
- 5.2.9 If needed, use the SAM-2 to determine Iodine-131 concentrations.

5.3 Dosimetry

- 5.3.1 IF arriving ERO personnel do NOT have plant issued dosimetry, THEN issue emergency dosimetry stored in the SBF.
- 5.3.2 For EMT members that will monitor the plume, direct them to read their dosimeters as follows:
 - 5.3.2.1 IF a release occurs OR is in progress, THEN read dosimeters at a minimum of every 15 minutes, more often as radiation levels dictate.
 - 5.3.2.2 Advise the RPO/RAF (or Emergency Operations Facility (EOF) when activated) of dosimeter readings every hour OR when 100 mrem is accumulated.
- 5.3.3 Instruct personnel remaining in the SBF to perform the following:
 1. Periodically monitor their Self Reading Dosimeters (SRDs).
 2. Report dose readings of 100 mrem to the SFB Coordinator.
 3. IF the dosimeter reads $\frac{3}{4}$ scale or greater, THEN have the dosimeter re-zeroed by the SBF Coordinator.
 4. Log the dose on Form EPIPF-SEC-04-01 "Emergency Dosimetry Log Security."

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5. Report dose increments of 100 mrem to the RPD.

5.4 SBF Radiation Surveys

- 5.4.1 If the SBF should become contaminated, then follow normal RP procedures to prevent the spread of contamination.
- 5.4.2 IF advised that a release is in progress OR has occurred, THEN perform radiation surveys of the SBF.
- 5.4.3 Advise the RPD immediately of elevated radiation or contamination readings in the SBF.

5.5 SBF Relocation

- 5.5.1 IF the SBF becomes uninhabitable OR ineffective due to radiation levels or contamination, THEN contact the ED or RPD and consider relocation of the SBF.
- 5.5.2 If relocation is deemed necessary, then determine the new location of the SBF.
- 5.5.3 Collect the following and move it to the new SBF location:
 - All Portable Instruments
 - TLDs and TLD issue sheets
 - Status Board Sheets
 - Radios and associated equipment
 - Potassium Iodide Tablets
 - Emergency Plan and Emergency Plan Implementing Procedures
 - Dosimeters and Changers
 - Swipe packets
 - Phone lists
 - Calculator
 - Step-off Pads
 - Rad Bags
 - Lab coats
 - Gloves
 - Shoe covers

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5.5.4 Report to the new location.

5.5.5 Set up instruments and radiological controls.

5.5.6 Inform the RPD when the SBF has been relocated and re-established.

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.

7.0 References

- 7.1 EPIP-AD-04, KNPP Response to Alert or Higher
- 7.2 HP-06.007, Instrument Operating Procedure - SAM-2
- 7.3 HP-06.085, Instrument Operating Procedure - PPM-1 Portable Personnel Monitor

8.0 Records

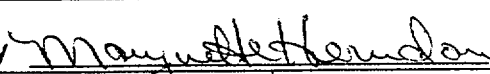

- 8.1 The following QA records and non-QA records are identified in this directive/procedure and are listed on the KNPP Records Retention Schedule. These records shall be maintained according to the KNPP Records Management Program.

8.1.1 QA Records

- SAM-2 Counting Equipment Worksheet, Form EPIPF-RET-04-01
- Emergency Dosimetry Log Security, Form EPIPF-SEC-04-01

8.1.2 Non-QA Records

None

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		Title	Security Force Actions for Dosimetry Issue			
		Date	OCT 02 2001	Page 1 of 3		
Reviewed By						
Approved By						
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 issuance of dosimetry to personnel reporting to the plant during a declared emergency.

2.0 General Notes

- 2.1 None

3.0 Precautions and Limitations

- 3.1 A Thermoluminescent Dosimeter (TLD) is assigned to a single individual, and shall NOT be reissued to someone else.
- 3.3 Ensure Security Force Members (SFM) wear dosimetry whenever they are on duty.
- 3.4 Ensure all personnel leaving the site turn in their dosimetry.
- 3.5 Environmental Monitoring Team members (EMTs) have dosimetry at the Site Boundary Facility (SBF) and are NOT required to pick up dosimetry at the Security Building.

4.0 Initial Conditions

- 4.1 This procedure will be implemented when an emergency has been classified as an **Alert, Site Emergency, General Emergency**, or when the siren is sounded for an Unusual Event.

5.0 Procedure

- 5.1 Site Protection Director (SPD) shall direct Security Force personnel to set up a dosimetry issue station as follows:
- 5.1.2 Collect the following materials from the X-ray "A" Podium and set up a dosimetry issue point in front of the entrance turnstiles.
- TLDs
 - Box of self-reading dosimeters (SRDs)
 - Packets of Form EPIP-SEC-04-01, "Emergency Dosimeter Log Security"
 - SRD charger
 - Card Table

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- 5.1.3 Set up appropriate barricades to route incoming personnel to the dosimetry issue point.
- 5.1.4 Assign an officer (or other support personnel if available) to man the dosimetry issue station.
- 5.1.5 Zero a supply of Self Reading Dosimeters (SRDs) for issue.

5.2 Dosimetry Issue

!! Caution !! To Prevent Injury or Death
<i>Ensure that SRDs are "zeroed" prior to issue.</i>

Note

Fire Team personnel have dosimetry in their turn-out gear lockers and are NOT required to pick up dosimetry at the Security Building.

Note

Environmental Monitoring Teams have dosimetry at the Site Boundary Facility (SBF) and are NOT required to pick up dosimetry at the Security Building.

- 5.2.1 Write the person's name on the TLD for future retrieval.
- 5.2.2 Record the TLD Badge number and other required information on the Emergency Dosimeter log.
- 5.2.3 Before issuing the SRD, ensure it has been "zeroed."
- 5.2.4 Issue the TLD and an SRD.

5.3 Dosimetry Turn In

Note

Personnel who leave the Protected Area (PA) but plan on staying on-site should NOT turn in their dosimetry until they are ready to leave the site.

- 5.3.2 Collect TLDs and SRDs at Visitor/Vehicle registration desk and perform the following:
 - a. Ensure the person's name is on the TLD.
 - b. Fill out Form EPIPF-SEC-04-01.
 - c. Return the TLD and SRD to the issue table. Return SRDs to the dosimetry issue station to be zeroed and reused.
 - d. TLDs are to be re-issued only to the person whose name is recorded on it.

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5.3.3 Long-term dosimetry issue:

- a. Follow the same route for personnel ingress.
- b. At the dosimetry issue station, pick up an SRD, TLD, and complete required Form EPIPF-SEC-04-01. Verify you have your own TLD.

5.3.4 IF the Security Building becomes uninhabitable, THEN advise RP and coordinate movement of the dosimetry issue and turn in stations with movement of the security control location.

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.

7.0 References

- 7.3 NRC Report 50-305/84-17 Open Item No. 305/84-17-02

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

- Emergency Dosimeter Log Security, Form EPIPF-SEC-04-01

8.1.2 Non-QA Records

None

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>		No.	EPIP-TSC-01	Rev.	P
		Title	Technical Support Center Organization and Responsibilities		
		Date	OCT 02 2001	Page 1 of 17	
Reviewed By <i>Jeanne M. Ferris</i>		Approved By <i>David R. Seebart</i>			
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 establishing the emergency response organization for the Technical Support Center (TSC) and describes the responsibilities of the organizations members.

2.0 General Notes

- 2.1 None

3.0 Precautions and Limitations

- 3.1 None

4.0 Initial Conditions

- 4.1 This procedure shall be implemented and the TSC staff formed during a Declared Emergency of Alert, Site Emergency, General Emergency, or whenever the need arises to activate the TSC.

5.0 Procedure

- 5.1 Technical Support Center Director (TSCD) shall:

- 5.1.1 Supervise and coordinate the TSC staff actions as stated in EPIP-AD-04, "KNPP Response to Alert or Higher," Step 5.9.

- 5.2 Severe Accident Management Team Leader (SAMTL) shall:

- 5.2.1 WHEN notified that an Emergency has been declared:

- a. Report to the Technical Support Center.
- b. IF a SAMTL has been designated, THEN until released,
 1. Assist in the activation of the TSC.
 2. If appropriate, plan a shift relief per EPIP-AD-05, "Emergency Response Organization Shift Relief Guideline."
 3. Assist the designated SAM Operations person.

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- c. IF a SAMTL has NOT been designated, THEN notify the Technical Support Center Director (TSCD) of your intent to assume the responsibilities of the SAMTL and continue implementation of this procedure.

5.2.2 Obtain the SAMTL Response Binder from the TSC Material Locker.

<p align="center">!! Caution !!</p> <p align="center">To Prevent Injury or Death</p> <p><i>Implementation of SAMGs from the TSC prior to full activation of the TSC is <u>NOT</u> recommended without careful analysis. Information flow into the TSC must be adequate to support the SAM Teams ability to develop recommendations and the Emergency Director should be available in the TSC to support the decision making process on SAM Team recommendations.</i></p>
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5.2.3 Ensure the following actions are completed prior to implementation of the SAM guidelines from the TSC:

- a. _____ The SAM Operations and SAM Core Hydraulics positions are filled.
- b. _____ The computers in the SAM Room are energized and signed on to the SAM data screens in accordance with Step 5.2.4 of this procedure.

Note

Obtain information needed in the next step from TSC status boards, Honeywell terminal, the Data Coordinator, and/or the Operations Communicator:

- c. _____ Using Form EPIPF-TSC-01-01, "Plant Status Summary for SAM Implementation," obtain as complete a picture of plant status as possible.

5.2.4 SAM data screen access method:

- a. Log into the KNPP Network using one of the 2 terminals in the SAM Room.
- b. When the following message appears on the computer screen, "You have not logged on at this computer before. Would you like this computer to retain your individual settings for use when you log on here in the future," ALWAYS CLICK "NO".

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Note

*The SAM DATA Icon (shortcut) opens the Excel file
"N:\Group\Ep(242)\Sam\Hnwltopc\Sam.xls."*

- c. Select the SAM DATA Icon from the Program Menu.

5.2.5 Determine if the Control Room staff is implementing SAM guidelines:

a. **IF NO, THEN**

1. Maintain plant status awareness using Form EPIPF-TSC-01-01, "Plant Status Summary for SAM Implementation," current with plant conditions.
2. Periodically check with the SAM Core Hydraulics and SAM Operations person to obtain knowledge of their individual activities.
3. Using Form EPIPF-TSC-01-03, "Severe Accident Management - Status," to determine potential SAM guideline application.
4. Offer assistance to the TSCD with tasks that will allow you to keep abreast of plant conditions.

b. **IF YES, THEN**

1. Inform the SAM Core Hydraulics and SAM Operations person that they should go to the SAM Room and initiate a review of the Diagnostic Flow Chart (DFC) based on current plant conditions.
2. Inform the Emergency Director (ED) that the SAM Team has begun monitoring the DFC.

Note

Form EPIPF-TSC-01-03 may be used as a tool during the analysis process.

3. Facilitate a review of appropriate SAGs and SCGs with the SAM Team.
4. Obtain and complete Form EPIPF-TSC-01-02, "Severe Accident Management Summary and Strategy Recommendation," for each SAM guideline analyzed that results in a needed strategy recommendation to the ED.
5. Interact with the TSC Directors to obtain information or alert them to pending anticipatory tasks.
6. Provide any or all strategy recommendation(s) to the ED using completed Form EPIPF-TSC-01-02 as soon as possible.
7. Ensure that the Severe Accident Management status board is maintained.
8. Ensure that the DFC is continuously monitored.

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9. Ensure the Severe Challenge Status Tree (SCST) is monitored as appropriate for accident conditions.

10. Ensure Long Term Concerns are monitored per SAEG-1.

5.2.6 Review staffing requirements, AND

a. Request additional assistance from the TSCD, OR

b. Release any assistance no longer required back to the TSCD.

5.2.7 If appropriate, plan a shift relief for SAM Team Leader per EPIP-AD-05.

5.2.8 IF Final Conditions (Section 6.0) have NOT been met, THEN return to Step 5.2.5.

5.2.9 WHEN Final Conditions (Section 6.0) are met:

a. Verify the SAM Room is returned to normal status and emergency procedures, forms, etc. are returned to their proper place.

b. Collect all completed forms, notes, and other documentation and give them to the TSCD.

5.3 **Severe Accident Management Operations (SAMOP) shall:**

5.3.1 WHEN notified that an Emergency has been declared:

a. Report to the Technical Support Center.

b. IF a SAMOP person has been designated, THEN until released,

1. Assist in the activation of the TSC.

2. If appropriate, plan a shift relief per EPIP-AD-05.

3. Assist the designated SAMOP person.

c. IF a SAMOP person has NOT been designated, THEN notify the Technical Support Center Director of your intent to assume the responsibilities of the SAMOP person and continue implementation of this procedure.

Note

Pre-SAM activities should be performed from the TSC Directors table at SAM Team Leader locations.

5.3.2 Initiate EPIP-TSC-10, "Technical Support for IPEOPs," and review against existing plant conditions, Control Room actions, and operating procedure implementation.

5.3.3 Advise the ED on the potential TSC actions and activities needed in support of operational situations and actions.

5.3.4 Inform the ED of any significant events.

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5.3.5 Review staffing requirements with the SAM Team Leader, AND

- a. Request additional assistance from the TSCD, OR
- b. Release any assistance no longer required back to the TSCD.

5.3.6 If appropriate, plan a shift relief for the SAMOP person per EPIP-AD-05.

5.3.7 IF informed by the SAM Team Leader that SAM guidelines need to be implemented:

- a. Secure use of procedure EPIP-TSC-10.
- b. Move to the SAM Room and initiate a review of the Diagnostic Flow Chart.

5.3.8 IF Final Conditions (Section 6.0) have NOT been met or SAM Guidelines have NOT been implemented, THEN return to Step 5.3.2.

5.3.9 WHEN Final Conditions are met (Section 6.0):

- a. Verify all work areas are returned to normal status and emergency procedures, forms, etc. are returned to there proper place.
- b. Collect all completed forms, notes, and other documentation and give them to the TSCD.

5.4 **Severe Accident Management Core Hydraulics (SAMCH) shall:**

5.4.1 WHEN notified that an Emergency has been declared:

- a. IF on-site at the time of declaration, THEN report to the TSC and go to step e.
- b. Report to the Emergency Operations Facility.
- c. IF an SRCL person has NOT been designated, THEN notify the Emergency Protection Director and Technical Support Center Director of your intent to provide Core Damage Assessment until relieved by an SRCL.
- d. IF an SRCL has been designated, THEN report to the Technical Support Center.
- e. IF a SAMCH person has been designated, THEN until released,
 - 1. Assist in the activation of the TSC.
 - 2. If appropriate, plan a shift relief per EPIP-AD-05.
 - 3. Assist the designated SAMCH person.
- f. IF a SAMCH person has NOT been designated, THEN notify the Technical Support Center Director of your intent to assume the responsibilities of the SAMCH person and continue implementation of this procedure.

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5.4.2 Based on plant conditions, implement the following procedures:

- a. EPIP-TSC-07, "RV Head Venting Time Calculation"
- b. EPIP-TSC-08A, "Calculations for Steam Release from Steam Generators"
- c. EPIP-TSC-09A, "Core Damage Assessment"

5.4.3 Monitor core and reactor coolant parameters for indications of inadequate core cooling.

5.4.4 Assess for actual or potential reactor core damage.

5.4.5 Inform the TSCD of significant changes in core and reactor coolant parameters.

5.4.6 In conjunction with the SAM Team Leader, provide recommendations to the ED on mitigating actions that may be taken.

5.4.7 Review staffing requirements with the SAM Team Leader, AND

- a. Request additional assistance from the TSCD, OR
- b. Release any assistance no longer required back to the TSCD.

5.4.8 If appropriate, plan a shift relief for the SAMCH person per EPIP-AD-05.

5.4.9 IF informed by the SAM Team Leader that SAM guidelines need to be implemented:

!! Caution !!

To Prevent Injury or Death

It may be necessary to continue implementation of Procedures EPIP-TSC-07, EPIP-TSC-08A, and/or EPIP-TSC-09A as well as the SAGs and SCGs.

- a. Move to the SAM Room and initiate a review of the Diagnostic Flow Chart.

5.4.10 IF Final Conditions (Section 6.0) have NOT been met, THEN return to Step 5.4.2.

5.4.11 WHEN Final Conditions are met (Section 6.0):

- a. Verify all work areas are returned to normal status and emergency procedures, forms, etc. are returned to there proper place.
- b. Collect all completed forms, notes, and other documentation and give them to the TSCD.

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5.5 Engineering Coordinator shall:

5.5.1 WHEN notified that an Emergency has been declared:

- a. Report to the Technical Support Center.
- b. IF an Engineering Coordinator has been designated, THEN until released,
 1. Assist in the activation of the TSC.
 2. If appropriate, plan a shift relief per EPIP-AD-05.
 3. Assist the designated Engineering Coordinator.
- c. IF an Engineering Coordinator has NOT been designated, THEN notify the Technical Support Center Director of your intent to assume the responsibilities of the Engineering Coordinator and continue implementation of this procedure.

5.5.2 Implement procedure EPIP-TSC-04, "Emergency Physical Changes, Major Equipment Repair."

5.5.3 When required, develop and issue work requests.

5.5.4 When required, provide plant groups with revised and updated prints.

5.5.5 When requested, present emergency physical change information to the Plant Operations Review Committee (PORC).

5.5.6 When requested by the TSCD, coordinate engineering support.

5.5.7 When requested, provide engineering and technical assistance to the Support Activity Director.

5.5.8 Inform the TSCD of any significant events.

5.5.9 Review staffing requirements, AND

- a. Request additional assistance from the TSCD, OR
- b. Release any assistance no longer required back to the TSCD.

5.5.10 If appropriate, plan a shift relief for Engineering Coordinator per EPIP-AD-05.

5.5.11 IF Final Conditions (Section 6.0) have NOT been met, THEN return to Step 5.5.2.

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5.5.12 WHEN Final Conditions are met (Section 6.0):

- a. Verify all work areas are returned to normal status and emergency procedures, forms, etc. are returned to their proper place.
- b. Collect all completed forms, notes, and other documentation and give them to the TSCD.

5.6 Quality Programs Coordinator shall:

5.6.1 WHEN notified that an Emergency has been declared:

- a. Report to the Technical Support Center.
- b. IF a Quality Programs Coordinator has been designated, THEN until released,
 1. Assist in the activation of the TSC.
 2. If appropriate, plan a shift relief per EPIP-AD-05.
 3. Assist the designated Quality Programs Coordinator.
- c. IF a Quality Programs Coordinator has NOT been designated, THEN notify the Technical Support Center Director of your intent to assume the responsibilities of the Quality Programs Coordinator and continue implementation of this procedure.

5.6.2 Alert the TSCD of any Quality Programs (QP) concerns which may impact any activity.

5.6.3 When appropriate, provide recommendations to the TSCD.

5.6.4 Maintain QP activities as close to normal as practical.

5.6.5 Coordinate necessary Warehouse activities for procurement and/or relative shipment of material.

5.6.6 Inform the TSCD of any significant events.

5.6.7 Review staffing requirements, AND

- a. Request additional assistance from the TSCD, OR
- b. Release any assistance no longer required back to the TSCD.

5.6.8 If appropriate, plan a shift relief for Quality Programs Coordinator per EPIP-AD-05.

5.6.9 IF Final Conditions (Section 6.0) have NOT been met, THEN return to Step 5.6.2.

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5.6.10 WHEN Final Conditions are met (Section 6.0):

- a. Verify all work areas are returned to normal status and emergency procedures, forms, etc. are returned to their proper place.
- b. Collect all completed forms, notes, and other documentation and give them to the TSCD.

5.7 **Data Coordinator shall:**

5.7.1 WHEN notified that an Emergency has been declared:

- a. Report to the Technical Support Center.
- b. IF a Data Coordinator has been designated, THEN until released,
 1. Assist in the activation of the TSC.
 2. If appropriate, plan a shift relief per EPIP-AD-05.
 3. Assist the designated Data Coordinator.
- c. IF a Data Coordinator has NOT been designated, THEN notify the Technical Support Center Director of your intent to assume the responsibilities of the Data Coordinator and continue implementation of this procedure.

5.7.2 Implement procedure EPIP-TSC-03, "Plant Status Procedure."

5.7.3 Alert the TSCD or ED of significant changes in plant parameters or system status changes.

5.7.4 Assist TSC staff members obtain plant data and information.

5.7.5 Ensures that data forms or messages are maintained for use in event analyses.

5.7.6 Inform the TSCD of any significant events.

5.7.7 Review staffing requirements, AND

- a. Request additional assistance from the TSCD, OR
- b. Release any assistance no longer required back to the TSCD.

5.7.8 If appropriate, plan a shift relief for Data Coordinator per EPIP-AD-05.

5.7.9 IF Final Conditions (Section 6.0) have NOT been met, THEN return to Step 5.7.2.

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5.7.10 WHEN Final Conditions are met (Section 6.0):

- a. Verify all work areas are returned to normal status and emergency procedures, forms, etc. are returned to there proper place.
- b. Collect all completed forms, notes, and other documentation and give them to the TSCD.

5.8 **EOF Communicator** shall:

5.8.1 WHEN notified that an Emergency has been declared:

- a. Report to the Technical Support Center.
- b. IF an EOF Communicator has been designated, THEN until released,
 1. Assist in the activation of the TSC.
 2. If appropriate, plan a shift relief per EPIP-AD-05.
 3. Assist the designated EOF Communicator.
- c. IF an EOF Communicator has NOT been designated, THEN notify the Technical Support Center Director of your intent to assume the responsibilities of the EOF Communicator and continue implementation of this procedure.

5.8.2 IF the Off-Site Communicator in the EOF is NOT prepared to assume off-site communications, obtain the concurrence of the TSCD to start the transfer of off-site communications from the Control Room to the TSC.

- a. Contact the Control Room Communicator (Ext. 8207) and obtain a briefing on the status of off-site notifications.
- b. WHEN mutually agreed upon, relieve the Control Room Communicator of off-site notification responsibilities.
- c. Ensure the "bell switch" for the Government Verification phone in the Technical Support Center is in the ON position.
- d. Remind the Control Room Communicator to turn the "bell switch" on the Government Verification phone in the Control Room to the OFF position.
- e. Ask the Control Room Communicator to send a copy of all "Event Notices," Form EPIPF-AD-07-01, issued to the TSC at their earliest convenience.
- f. Inform the TSCD you have assumed responsibility for off-site notifications.

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- 5.8.3 WHEN directed by the ED, perform off-site notifications:
- IF all Off-Site EOCs have been activated, THEN go to EPIP-EOF-08, "Continuing Emergency Notifications," and complete the notifications.
 - IF all Off-Site EOCs have NOT been activated, THEN go to EPIP-AD-07, "Initial Emergency Notifications," and complete Steps 5.2 through 5.4.
- 5.8.4 Record all incoming and outgoing information on the Telephone Communications Log Sheet.
- 5.8.5 If required, activate ERO pagers using EPIP-AD-07 or EPIP-EOF-08 Step 5.5.
- 5.8.6 IF the Off-Site Communicator in the EOF is NOT prepared to assume off-site communications, THEN return to Step 5.8.3.
- 5.8.7 WHEN the Off-Site Communicator in the EOF is prepared to accept responsibility for off-site communications:
- Provide the Off-Site Communicator with a briefing on the status of off-site communications.
 - WHEN mutually agreed upon, transfer off-site communications.
 - Send completed copies of the "Event Notices," Form EPIP-AD-07-01, to the EOF as soon as practical.
 - Inform the TSCD that you have transferred responsibility for off-site communications.
- 5.8.8 WHEN established by the Plant/JPIC Communicator in the EOF, participate in the Communicator conference call.
- 5.8.9 Inform the TSCD of any significant events.
- 5.8.10 Review staffing requirements, AND
- Request additional assistance from the TSCD, OR
 - Release any assistance no longer required back to the TSCD.
- 5.8.11 If appropriate, plan a shift relief for EOF Communicator per EPIP-AD-05.
- 5.8.12 IF final conditions (Step 6.0) have NOT been met, THEN return to Step 5.8.9.

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5.8.13 WHEN Final Conditions are met (Step 6.0):

- a. IF off-site communications are being performed from the TSC, ensure that termination communications have been completed in accordance with EPIP-EOF-08.
- b. Verify that the bell switch on the emergency government verification line is in the ON position.
- c. Verify all work areas are returned to normal status and Emergency Procedures, Forms, etc., are returned to their proper place.
- d. Collect all completed Forms, Notes and Other Documentation and give them to the TSCD.

5.9 **NRC Communicator (NRCCM) shall:**

5.9.1 WHEN notified that an Emergency has been declared:

- a. Report to the Control Room.
- b. IF a NRCCM has been designated, THEN until released,
 1. Provide assistance to the designated NRCCM as required.
 2. When appropriate, relocate to the TSC and monitor the communications of the NRCCM in the Control Room.
 3. When the TSC is capable of supporting NRC communications, transfer NRC communications from the Control Room to the TSC.
- c. IF a NRC Communicator has NOT been designated, THEN notify the Shift Technical Advisor (STA) or Event Operations Director of your intent to assume the responsibilities of the NRCCM and continue implementation of this procedure.
 1. Ensure the Emergency Response Data System has been activated per Form EPIPF-TSC-02-03.

Note

The Emergency Response Data System shall be activated within one hour of declaration of an Alert or higher.

2. Relieve the STA of NRC Communications responsibility.
3. Maintain a continuous line of communication with NRC headquarters.
4. WHEN the TSC is considered ready for activation, turn over NRC communications or relocate to the Technical Support Center.

5.9.2 Notify the TSCD that you have assumed responsibility for the NRC Communicator position.

5.9.3 Continue to maintain a continuous line of communication with NRC headquarters.

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- 5.9.4 Record all incoming and outgoing information on the Telephone Communications Log Sheet located in the TSC reference shelf.
- 5.9.5 Provide notifications and status updates to the NRC.
- 5.9.6 Notify the ED or TSCD of NRC concerns.
- 5.9.7 Inform the TSCD of any significant events.
- 5.9.8 Review staffing requirements, AND
 - a. Request additional assistance from the TSCD, OR
 - b. Release any assistance no longer required back to the TSCD.
- 5.9.9 If appropriate, plan a shift relief for NRC Communicator per EPIP-AD-05.
- 5.9.10 IF final conditions (Step 6.0) have NOT been met, THEN return to Step 5.9.3.
- 5.9.11 WHEN Final Conditions are met (Step 6.0):
 - a. Verify all work areas are returned to normal status and emergency procedures, forms, etc., are returned to their proper place.
 - b. Collect all completed Forms, Notes and Other Documentation and give them to the TSCD.

5.10 Operations Communicator shall:

- 5.10.1 WHEN notified that an Emergency has been declared:
 - a. Report to the Technical Support Center.
 - b. IF an Operations Communicator has been designated, THEN until released,
 - 1. Assist in the activation of the TSC.
 - 2. If appropriate, plan a shift relief per EPIP-AD-05.
 - 3. Assist the designated Operations Communicator.
 - c. IF an Operations Communicator has NOT been designated, THEN notify the Operations Coordinator of your intent to assume the responsibilities of the Operations Communicator and continue implementation of this procedure.
- 5.10.2 Notify Control Room Communicator of your availability (Extension 8207).
- 5.10.3 Support a communication link between the TSC and Control Room.
- 5.10.4 Record all incoming and outgoing information on the Telephone Communications Log Sheet.

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5.10.5 Obtain information and data from the Control Room that cannot be obtained from the Honeywell terminals.

5.10.6 Maintain Plant System Status, Form EPIP-TSC-03-02.

5.10.7 Inform the TSCD of any significant events.

5.10.8 Review staffing requirements, AND

a. Request additional assistance from the TSCD, OR

b. Release any assistance no longer required back to the TSCD.

5.10.9 If appropriate, plan a shift relief for Operations Communicator per EPIP-AD-05.

5.10.10 IF Final Conditions (Step 6.0) have NOT been met, THEN return to Step 5.10.3.

5.10.11 WHEN Final Conditions are met (Step 6.0):

a. Verify all work areas are returned to normal status and emergency procedures, forms, etc., are returned to their proper place.

b. Collect all completed forms, notes, and other documentation and give them to the TSCD.

5.11 **TSC Support Person** shall:

5.11.1 WHEN notified that an Emergency has been declared:

a. Report to the Technical Support Center.

b. IF a TSC Support person has been designated, THEN until released,

1. Assist in the activation of the TSC.

2. If appropriate, plan a shift relief per EPIP-AD-05.

3. Assist the designated TSC Support person.

c. IF a Recorder has NOT been designated, THEN notify the Technical Support Center Director of your intent to assume the responsibilities of the TSC Support person and continue implementation of this procedure.

5.11.2 Maintain a "Chronological TSC Log" of significant events, announcements, and TSCD priorities.

5.11.3 When requested, make document copies.

5.11.4 Inform the TSCD of any significant events.

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5.11.5 Review staffing requirements, AND

- a. Request additional assistance from the TSCD, OR
- b. Release any assistance no longer required back to the TSCD.

5.11.6 If appropriate, plan a shift relief for the TSC Support person per EPIP-AD-05.

5.11.7 IF final conditions (Step 6.0) have NOT been met, THEN return to Step 5.11.2.

5.11.8 WHEN Final Conditions are met (Step 6.0):

- a. Verify all work areas are returned to normal status and emergency procedures, forms, etc., are returned to there proper place.
- b. Collect all completed forms, notes, and other documentation and give them to the TSCD.
- c. Ensure documents and forms generated in the TSC during the event are retained according to the KNPP Records Retention Schedule.

5.12 **Technical Briefer shall:**

5.12.1 WHEN notified that an Emergency has been declared:

- a. IF at a location NOT KNPP, THEN report to the JPIC in Green Bay and implement the Technical Briefer responsibilities as defined in the Nuclear Public Information Plan.
- b. IF on-site (KNPP), THEN report to the Technical Support Center.
 1. IF a TSC Technical Briefer has been designated, THEN proceed to the JPIC in Green Bay and implement the Technical Briefer responsibilities as defined in the Nuclear Public Information Plan.
 2. IF a TSC Technical Briefer has NOT been designated, THEN notify the Technical Support Center Director of your intent to assume the responsibilities of the TSC Technical Briefer and continue implementation of this procedure.

5.12.2 Establish communications with the JPIC and provide technical updates and data to the NPID or his designate in the JPIC.

5.12.3 WHEN the EOF Communicator has established the 3-way communications network, including a Technical Briefer in the JPIC, turn over communication with the JPIC to the EOF Communicator.

5.12.4 Inform the TSCD if you are terminating the Technical Briefer position in the TSC and the EOF Communicator has taken responsibility for communication with the JPIC.

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5.12.5 Proceed to the JPIC in Green Bay and implement the Technical Briefer responsibilities as defined in the Nuclear Public Information Plan or take other action as directed by the NPID.

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.

7.0 References

- 7.1 EPIP-AD-04, KNPP Response to Alert or Higher
- 7.2 EPIP-AD-05, Emergency Response Organization Shift Relief Guideline
- 7.3 EPIP-AD-07, Initial Emergency Notifications
- 7.4 Kewaunee Nuclear Power Plant Emergency Plan
- 7.5 EPIP-EOF-08, Continuing Emergency Notifications
- 7.6 EPIP-TSC-03, Plant Status Procedure
- 7.7 EPIP-TSC-04, Emergency Physical Change, Major Equipment Repair
- 7.8 EPIP-TSC-07, RV Head Venting Time Calculation
- 7.9 EPIP-TSC-08A, Calculations for Steam Release from Steam Generators
- 7.10 EPIP-TSC-09A, Core Damage Assessment
- 7.11 EPIP-TSC-10, Technical Support for IPEOPs

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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

- Telephone Communications Log Sheet, Form EIPF-EOF-04-02
- Chronological TSC Log
- Severe Accident Management Summary and Strategy Recommendation, Form EIPF-TSC-01-02

8.1.2 Non-QA Records

- Plant Status Summary for SAM Implementation, Form EIPF-TSC-01-01
- Severe Accident Management - Status, Form EIPF-TSC-01-03

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Reviewed By <i>Jeanne M. Ferris</i>		Approved By <i>Dave Seebart</i>		
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 establishing the controls and documentation for changes to equipment or systems necessary during a declared emergency.
- 1.2 This procedure applies to the Engineering Coordinator and other Technical Support Center (TSC) staff members designated by the Technical Support Center Director (TSCD) or Engineering Coordinator implementing physical changes or major equipment or system repairs during a declared emergency.

2.0 General Notes

- 2.1 10CFR50.54 (x) and (y) provide that a licensee may take reasonable action that departs from a license condition or a technical specification in an emergency when this action is immediately needed to protect the public health and safety and no action consistent with license conditions and technical specifications that can provide adequate or equivalent protection is immediately apparent. This action shall be approved, as a minimum, by a licensed senior operator prior to taking the action.

3.0 Precautions and Limitations

- 3.1 None

4.0 Initial Conditions

- 4.1 Plant is in a declared emergency with the Technical Support Center activated.

5.0 Procedure

Note

Normal plant procedures should be used, if time and conditions permit.

5.1 Initiation and Implementation of an Emergency Physical Change (EPC)

- 5.1.1 Complete EPC Request (Form EPIPF-TSC-04-01).
- 5.1.2 Complete an EPC Safety Review (Form EPIPF-TSC-04-02).
- 5.1.3 Assign a number to the EPC from the EPC Index (Form EPIPF-TSC-04-03).

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5.1.4 Review the EPC with the TSCD, OR

IF the EPC affects plant safety, THEN call necessary PORC members together for an Emergency PORC Meeting.

5.1.5 Following the TSCD or PORC review, ensure all signatures are obtained and dated on the EPC.

5.1.6 Ensure all appropriate prints are clearly marked with the needed modifications and copies are made for distribution to the Technical Support Center (TSC), Control Room (CR), and Operational Support Facility (OSF).

5.1.7 Review the EPC with the Event Operations Director and Shift Manager.

- a. Determine that plant conditions are acceptable prior to allowing the installation of the EPC.

Note

For some changes, a DANGER tag is inappropriate and cannot be placed, and therefore, is not required. This should be noted on the EPC Form.

- b. Ensure a tagout is prepared for the conditions necessary for installation of the EPC.
- c. Ensure the tagout number is recorded on the EPC.
- d. Have the Shift Manager sign the EPC.
- e. Ensure the original EPC is filed in the Shift Manager's office.

5.1.8 Coordinate with the Support Activities Director to install the EPC in accordance with the applicable Work Request.

5.2 Closing Out an EPC

5.2.1 Upon closeout or entry into the recovery phase, the TSCD will:

- a. Review the EPC Index and initiate NAD-04.03, "Plant Physical Change," as applicable for all EPCs that have not been removed, OR
- b. Remove the EPC if no longer needed.

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.

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7.0 References

- 7.1 NAD-04.03, Plant Physical Change
- 7.2 NAD-12.22, Physical Change Procedures
- 7.3 EPIP Appendix B, Forms
- 7.4 COMTRAK 87-153
- 7.5 GNP-04.03.01, Guide to Safety Review, Safety Evaluations, and Second Level Reviews
- 7.6 GNP-04.03.03, Plant Physical Change Control

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

- Emergency Physical Change Request, Form EPIPF-TSC-04-01
- Emergency Physical Change Safety Review, Form EPIPF-TSC-04-02

8.1.2 Non-QA Records

- Emergency Physical Change Index, Form EPIPF-TSC-04-03

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Reviewed By		<i>Edward S Coen</i>		Approved By		<i>David R Leebart</i>	
Nuclear Safety Related	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	PORC Review Required	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	SRO Approval Of Temporary Changes Required	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

1.0 Purpose

- 1.1 This procedure provides instruction for tracking revisions to the steam release program software for historical reasons.

2.0 General Notes

- 2.1 This program can be used in conjunction with EPIP-TSC-08A, "Calculations for Steam Release from Steam Generators," whenever a steam release calculation is needed in support of emergency efforts during a declared emergency at the Kewaunee Nuclear Power Plant.

3.0 Precautions and Limitations

- 3.1 None

4.0 Initial Conditions

- 4.1 This procedure shall be implemented upon declaration of an **Alert, Site Emergency, General Emergency**, or when directed by the Shift Manager or Emergency Director.

5.0 Procedure

- 5.1 The **Lead Plant Reactor Engineer** is responsible for the following:

- 5.1.1 Ensuring that all changes to this procedure are accomplished in accordance with GNP-03.01.01, "Directive and Procedure Administrative Controls."
- 5.1.2 Ensuring the requirements of RE-27, "Control of Computer Codes," for the STMRLS Program are met.
- 5.1.3 Ensuring program disks are distributed in the proper locations.
- 5.1.4 Ensuring the requirements of NAD-05.23, "Software Development, Procurement, Modification, and Control," are met for the STMRLS Computer Program.

- 5.2 The STMRLS Program shall be controlled after initial approval by RE-27 as a "Safety Related" Program and shall be reviewed annually to ensure the program is up-to-date.

- 5.3 Changes to the STMRLS Program shall be made in accordance with Section 4.2, "Computer Code Revisions," of RE-27.

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No. EPIP-TSC-08B	Rev. F
	Title STMRLS Computer Program	
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- 5.4 All documentation concerning a STMRLS Program revision shall be kept in the STMRLS Programmer/User's Manual.
- 5.5 All program disks, with the exception of the master disk (which is kept in the Reactor Engineering file), shall be compiled by the Computer Group. Reactor Engineering personnel will verify the accuracy of the RUN-ONLY code by comparing the results from the code to the existing benchmark. This shall be done before the copies are distributed.
- 5.6 Program disks shall be labeled by the Lead Plant Reactor Engineer with the following information:

EPIP-TSC-08B - STMRLS Computer Program

Date: October 2, 1990

Revision: A

Copy Number: _____

- 5.7 Executable copies of the program are distributed by the Plant Computer Group as follows:

COPY NUMBER	LOCATION
NA	Network: KNPP_VOL1\GROUP\EP(242)\STMRLS
1 & 3	TSC SAM Room - Cabinet One
4	MASTER TSC Lower - Plant Computer Group Master File

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.

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No.	EPIP-TSC-08B	Rev.	F
	Title	STMRLS Computer Program		
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7.0 References

- 7.1 STMRLS Programmer/User's Manual
- 7.2 EPIP-TSC-01, Technical Support Center Organization and Responsibilities
- 7.3 EPIP-TSC-08A, Calculations for Steam Release from Steam Generators
- 7.4 RE-27, Control of Computer Codes
- 7.5 NAD-05.23, Software Development, Procurement, Modification, and Control

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

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>		No. EPIP-TSC-09B		Rev. J	
		Title CORE Computer Program			
		Date OCT 02 2001	Page 1 of 3		
Reviewed By <i>Edward S. Coen</i>		Approved By <i>David R. Leebeart</i>			
Nuclear Safety Related	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	PORC Review Required	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	SRO Approval Of Temporary Changes Required	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

1.0 Purpose

- 1.1 This procedure provides instruction for a means by which revisions to Core Damage Assessment Program software can be tracked for historical reasons.

2.0 General Notes

- 2.1 This software program will be used whenever core damage assessment is required in support of emergency efforts during a declared emergency at the Kewaunee Nuclear Power Plant.

3.0 Precautions and Limitations

- 3.1 None

4.0 Initial Conditions

- 4.1 This procedure shall be implemented upon declaration of an **Alert, Site Emergency, General Emergency**, or when directed by the Shift Manager or Emergency Director.

5.0 Procedure

- 5.1 The **Lead Plant Reactor Engineer** is responsible for the following:
- 5.1.1 Ensuring that all changes to this procedure are accomplished in accordance with GNP-03.01.01, "Directive and Procedure Administrative Controls."
 - 5.1.2 Ensuring the requirements of RE-27, "Control of Computer Codes," for the CORE Program are met.
 - 5.1.3 Ensuring program disks are distributed in the proper locations.
 - 5.1.4 Ensuring the requirements of NAD-05.23, "Software Development, Procurement, Modification, and Control," are met for the CORE Computer Program.
- 5.2 The CORE Program shall be controlled by RE-27 as a "Safety Related" Program and shall be reviewed annually to ensure the program is up-to-date.
- 5.3 Changes to the CORE Program shall be made in accordance with Section 4.2, "Computer Code Revisions," of RE-27.

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No. EPIP-TSC-09B	Rev. J
	Title CORE Computer Program	
	Date OCT 02 2001	Page 2 of 3

- 5.4 All documentation concerning a CORE Program revision shall be kept in a binder along with the CORE Programmer/User's Manual.
- 5.5 All program disks, with the exception of the master disk (which is kept in the Reactor Engineering file), shall be compiled by the Computer Group. Reactor Engineering personnel will verify the accuracy of the RUN-ONLY code by comparing the results from the code to the existing benchmark. This shall be done before the copies are distributed.
- 5.6 Program disks shall be labeled by the Lead Plant Reactor Engineer with the following information:

EPIP-TSC-09B - CORE Computer Program

Date: December 1, 1987

Revision: D

Copy Number:

- 5.7 Executable copies of the program are distributed by the Plant Computer Group as follows:

COPY NUMBER	LOCATION
N/A	Network: KNPP_VOL1\GROUP\EP(242)\CORE
3	TSC SAM Room - Cabinet One
4	"MASTER" TSC Lower - Plant Computer Group Master File

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.

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No.	EPIP-TSC-09B	Rev.	J
	Title	CORE Computer Program		
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7.0 References

- 7.1 CORE Programmer/User's Manual
- 7.2 LC 89-024
- 7.3 EPIP-TSC-01, Technical Support Center Organization and Responsibilities
- 7.4 EPIP-TSC-09A, Core Damage Assessment
- 7.5 NAD-05.23, Software Development, Procurement, Modification, and Control
- 7.6 RE-27, Control of Computer Codes

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