



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

Operated by
Nuclear Management Company, LLC

NRC-01-067



June 6, 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

KEWAUNEE NUCLEAR POWER PLANT

June 5, 2001

EMERGENCY PLAN IMPLEMENTING PROCEDURES TRANSMITTAL FORM

RETURN TO DIANE FENCL - KNPP

OUTSIDE AGENCY COPIES (1-20)

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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)*
T. Webb - KNPP QA Vault w/NRC Letter (15)*	

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

J. Bennett (33)	D. Mielke (35)	H. Kocourek (13)	K. Hoops (28)
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STF (86, 87, 88)	LOREB - STF (62, 66, 67, 68, 70, 72, 73, 74)
L. Duggan - Fuel Services (65)	STF Library (43)
NO Library - KNPP (59)	Resource Center (82, 89, 94, 131)
C. Sternitzky - ATF-2 (44)	D. Schrank - Maintenance Off. (41)
D. Braun - ATF-3 (45)	M. Anderson - CR/SS Office (51, 56)
P. Ehlen - I&C Office (42)	P&FS Adm - GB-D2 (Nuclear Library) (84)
M. Daron - Security Building (46)	H. Kocourek - TSC (50)
P&FS Adm - GB D2-3 (EOF) (81)	W. Galarneau - RAF (53)
H. Kocourek - OSF (52)	W. Galarneau - SBF/EMT (54)
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W. Galarneau - SBF/ENV (108, 109)	Simulator/Communicator (117)
W. Galarneau - SBF/EM Team (110, 111, 111A)	J. Fletcher - Security (121)
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.**

**KEWAUNEE NUCLEAR POWER PLANT
REVISION OF EMERGENCY PLAN IMPLEMENTING PROCEDURES
June 5, 2001**

Please follow the directions listed below. If you have any questions regarding changes made to the EIPs, please contact Dave Seebart at ext. 8719. If you are a controlled copy holder (see cover page), return this page to Diane Fencil by July 5, 2001, SIGNED AND DATED to serve as a record of revision.

EPIP Index, dated 06-05-2001.

DELETE		INSERT	
PROCEDURE	REV.	PROCEDURE	REV.
EPIP-AD-01	F	EPIP-AD-01	G
EPIP-AD-05	B	EPIP-AD-05	C
EPIP-AD-18	N	EPIP-AD-18	O
EP-RET-2	R	EPIP-RET-02	S
EP-RET-2A	Q	EPIP-RET-02A	R
EPIP FORM RET 2A.2	D	Form EPIPF-RET-02A-02	E
EPIP FORM RET 8.3	Delete	---	---

I CERTIFY Copy No. _____ (WPSC No.) of the Kewaunee Nuclear Power Plant's EIPs has been updated.

SIGNATURE

DATE

Please return this sheet to **DIANE FENCL**.


Diane Fencil

Enclosure

EMERGENCY PLAN IMPLEMENTING PROCEDURES**INDEX****DATE: 06-05-2001**

PROC. NO.	TITLE	REV.	DATE
EP-AD			
EPIP-AD-01	Personnel Response to the Plant Emergency Siren	G	06-05-2001
EPIP-AD-02	Emergency Class Determination	Z	03-07-2000
EPIP-AD-03	KNPP Response to an Unusual Event	AB	03-20-2001
EPIP-AD-04	KNPP Response to Alert or Higher	AC	03-20-2001
EP-AD-5	Site Emergency	Deleted	04-27-87
EPIP-AD-05	Emergency Response Organization Shift Relief Guideline	C	06-05-2001
EP-AD-6	General Emergency	Deleted	04-24-87
EPIP-AD-07	Initial Emergency Notifications	AM	01-30-2001
EP-AD-8	Notification of Alert or Higher	Deleted	02-26-96
EP-AD-9	Notification of Site Emergency	Deleted	04-27-87
EP-AD-10	Notification of General Emergency	Deleted	04-27-87
EP-AD-11	Emergency Radiation Controls	P	08-10-99
EP-AD-12	Personnel Assembly and Accountability	Deleted	03-26-94
EP-AD-13	Personnel Evacuation	Deleted	04-25-94
EP-AD-13A	Limited Area Evacuation	Deleted	03-01-83
EP-AD-13B	Emergency Assembly/Evacuation	Deleted	03-01-83
EP-AD-13C	Site Evacuation	Deleted	03-01-83
EP-AD-14	Search and Rescue	Deleted	05-25-94
EPIP-AD-15	Recovery Planning and Termination	N	08-29-2000
EP-AD-16	Occupational Injuries or Vehicle Accidents During Emergencies	Deleted	03-14-97
EP-AD-17	Communications	Deleted	03-05-84
EPIP-AD-18	Potassium Iodide Distribution	O	06-05-2001
EPIP-AD-19	Protective Action Guidelines	P	10-31-2000
EP-ENV			
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EP-ENV-3A	Environmental Protection Director Actions and Directives	Deleted	09-26-84
EP-ENV-3B	EM Team Actions	Deleted	09-26-84
EPIP-ENV-03C	Dose Projection Using RASCAL Version 2.2 Software	U	02-16-2000
EP-ENV-3D	Revision and Control of ISODOSE II	Deleted	02-14-95
EP-ENV-3E	Manual Determination of X/Q	Deleted	04-24-87
EP-ENV-3F	Manual Determination of X/Q (Green Bay Meteorological Data)	Deleted	05-30-86
EP-ENV-3G	Manual Dose Projection Calculation	Deleted	06-02-89
EP-ENV-3H	Protective Action Recommendations	Deleted	04-13-90
EPIP-ENV-04A	Portable Survey Instrument Use	S	06-15-2000
EPIP-ENV-04B	Air Sampling and Analysis	V	09-12-2000
EP-ENV-4C	Environmental Monitoring Teams	Deleted	04-13-90
EPIP-ENV-04C	Ground Deposition Sampling and Analysis	V	09-12-2000
EPIP-ENV-04D	Plume Tracking for Environmental Monitoring Teams	M	09-12-2000
EP-ENV-5A	LCS-1 Operation	Deleted	04-14-86
EP-ENV-5B	MS-3 Operation	Deleted	04-14-86
EP-ENV-5C	SAM II Operation	Deleted	04-14-86
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
EP-ENV-6B	SAF Environmental Sample Analysis Relocation	Deleted	03-23-84
EP-ENV-7	Site Access Facility Communications	Deleted	09-26-84
EP-ENV-8	Total Population Dose Estimate Calculations	Deleted	04-14-86

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EP-EOF			
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EPIP-EOF-2	Emergency Operations Facility (EOF) Activation	X	10-24-2000
EPIP-EOF-03	Corporate Action for Unusual Event	Z	06-01-2000
EPIP-EOF-04	Corporate Action for Alert or Higher	AF	06-01-2000
EP-EOF-5	Corporate Staff Action for Site Emergency	Deleted	04-24-87
EP-EOF-6	Corporate Staff Action for General Emergency	Deleted	04-24-87
EP-EOF-7	Notification of Unusual Event	Deleted	04-06-94
EP-EOF-8	Relocation of EOF	Deleted	03-01-83
EPIP-EOF-08	Continuing Emergency Notifications	S	09-26-2000
EP-EOF-9	Interface with Support Organizations	Deleted	03-05-84
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EP-OP-2	Emergency Control Room Activation for Emergency Response	Deleted	04-24-87
EP-OP-3	Control Room Communications	Deleted	04-24-87
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EPIP-OSF-02	Operational Support Facility Operations	S	08-29-2000
EPIP-OSF-03	Work Requests During an Emergency	N	09-12-2000
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EP-RET-2B	Gaseous Effluent Sample and Analysis	Q	03-03-98
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EP-RET-2F	Personnel Decontamination	Deleted	04-13-90
EPIP-RET-03	Chemistry Emergency Team	O	02-01-2000
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
EP-RET-3C	Post Accident Operation of the High Radiation Sample Room	O	01-18-2000
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EP-RET-4A	EOF Radiological Monitoring	Deleted	03-10-83
EP-RET-4A	SBF Operation/Relocation	C	07-27-99
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EP-RET-4C	Site Radiological Monitoring	Deleted	07-12-94
EP-RET-4D	SAM-II Operation	Deleted	07-12-94
EP-RET-5	Plume Projection	Deleted	09-26-84
EPIP-RET-05	Site Boundary Dose Rates During Controlled Plant Cooldown	G	07-18-2000
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EPIP-RET-09	Post-Accident Population Dose	K	08-29-2000
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EP-SEC-2A	Manual Activation of Emergency Sirens	Deleted	04-16-82
EPIP-SEC-03	Personnel Assembly and Accountability	X	03-28-2000
EPIP-SEC-04	Security Force Actions for Dosimetry Issue	O	02-16-2000
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EPIP-TSC-02	Technical Support Center Activation	R	07-18-2000
EP-TSC-3	Plant Status Procedure	T	07-21-98
EPIP-TSC-04	Emergency Physical Changes, Major Equipment Repair	L	08-29-2000
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EPIP-TSC-08A	Calculations for Steam Release from Steam Generators	M	03-07-2000
EPIP-TSC-08B*	STMRLS Computer Program	E	03-07-2000
EP-TSC-8C*	See EP-TSC-8B	Deleted	04-16-92
* EP-TSC-8B was totally deleted; therefore, EP-TSC-8C was changed to EP-TSC-8B			

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EPIP-TSC-09B*	CORE Computer Program	I	03-07-2000
EP-TSC-9C*	See EP-TSC-9B	Deleted	04-16-92
* 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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EPIP-APPX-A-06	EP-FIG-008	APPX-A-06-01	Radiological Analysis Facility - KNP Floor Plan	A	10-31-2000
EPIP-EOF-12 Form EPIPG-EOF-02-01	EP-FIG-009	EOF-12-01	Division Office Building (2nd Floor) Floor Plan	B	10-24-2000
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AD 11.1	Emergency Radiation Work Permit	F	04-16-96
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EOF 8.3	Fax for Emergency Declaration or Status Updates	F	09-21-99
EOF 8.5	Plant Emergency Status Report	ORIG	02-21-95
EOF 8.6	Radiological Status Report	C	03-14-97
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RET 2B.1	Containment Stack Release (Grab Sample)	C	04-16-96
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RET 2B.6	Field Reading (Grab Sample)	A	04-16-96
RET 4	SAM-II Counting Equipment Worksheet	D	04-16-96
RET 8.3	Hospital Survey 1	Deleted	06-05-2001
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RET 8.5	Hospital Survey 3	Deleted	07-25-97
RET-08-06	Hospital Survey 4	F	06-15-2000
RET 9	Environmental TLD Record Sheet	C	02-14-95
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TSC 8A.1	Steam Release Data Sheet (Energy Balance)	G	02-14-95
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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
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

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>		No. EPIP-AD-01		Rev. G
		Title Personnel Response to the Plant Emergency Siren		
		Date JUN 05 2001		Page 1 of 3
Reviewed By <i>Attkin M. Bartlett</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 defining the initial actions to be taken in the event the plant emergency siren is sounded.

2.0 General Notes

- 2.1 The applicable content of this procedure shall be general knowledge for all personnel badged for unescorted access to KNPP.
- 2.2 WHEN responding to an emergency, IF roadblocks are in place in the Emergency Planning Zone (EPZ), be prepared to show a picture I.D. and follow access instructions given by the Traffic Officer.

3.0 Precautions and Limitations

- 3.1 IF approached by the media, THEN refer them to the telephone response center at 433-1400 or 1-(800)-838-6192 and tell them that this is their most accurate source for information.
- 3.2 ONLY the scheduled Control Room staff, individuals specifically called to the Control Room (CR) by the ED or EOD, and the following individuals may report directly to the Control Room:
- Emergency Director (ED)
 - Event Operations Director (EOD)
 - CR Communicator (CRCM)
 - Notifier (SEC-N)
 - NRC Communicator (NRCCM)
 - Control Room Support (SP-C)
 - NRC Resident Inspector
 - CAS Operator
 - Shift Technical Advisor (STA)
- 3.3 IF no Accountability Coordinator (AC) is available in the Assembly Area, THEN one of the first ERO members to arrive should implement Section 5.3 of EPIP-SEC-03 until relieved by a designated Accountability Coordinator.

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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 (SM) or Emergency Director.

5.0 Procedure

- 5.1 When personnel within the Site Boundary hear the emergency siren, they shall respond as follows:

- 5.1.1 Emergency Response Organization (ERO) staff shall report to their duty locations.

- a. ERO personnel inside the Radiologically Controlled Area (RCA) should pass through the RCA access point near the Radiation Protection Office (RPO) on their way to their emergency duty location.
- b. ERO personnel who need to pass through the Security Building en-route to their emergency duty location should do so promptly unless instructed to assemble elsewhere by Security.
- c. The following are exceptions for ERO members reporting to identified duty locations:
 - Fire Brigade/Fire Team report to the Shift Manager (SM) or Event Operations Director (EOD)
 - On-Shift NAOs report to the SM or EOD
 - Security Force personnel report to the Shift Captain
 - Dispatched emergency teams such as search and rescue or repair teams report to the SM or Support Activities Director (SAD)

- 5.1.2 Visitors, contractors, and non-ERO personnel on-site should assemble in the nearest designated Assembly Area.

- a. IF inside the Protected Area (PA), THEN report to one of the following areas:
 - Radiation Protection Office (RPO)
 - Administrative Training Facility (ATF) Lunchroom
 - Warehouse Annex Lunchroom
- b. IF outside the PA, THEN report to one of the following areas:
 - Security Building Classroom C
 - Simulator Training Facility (STF) Lobby

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5.2 Upon hearing the siren, report personal observations as follows:

- 5.2.1 Immediately report any injury or accident to the Radiological Protection Director (RPD) or HP Technician on duty (if there is no RPD) and obtain first aid treatment as directed.
- 5.2.2 The First Aid Attendant should report the injury and injured person(s) status to the RPD or Shift Manager (if there is no RPD) (i.e., treatment, departure from site, destination, prognosis, and return to site).
- 5.2.3 Problems needing corrective maintenance action should be immediately reported to a Supervisor.

5.3 When an evacuation is implemented, follow the instructions provided by Security and:

- a. Exit the plant in an orderly fashion by the directed route.
- b. IF reporting to a designated county relocation area, proceed directly there, following all directions that may be provided for exiting the Emergency Planning Zone (EPZ) by county emergency government officials.

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 or it has been determined that accountability is no longer required.

7.0 References

- 7.1 EPIP-SEC-03, Personnel Assembly and Accountability

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-AD-05		Rev. C
		Title Emergency Response Organization Shift Relief Guideline		
		Date JUN 05 2001	Page 1 of 5	
Reviewed By <i>Little M Bartelme</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 conducting shift relief of the Emergency Response Organization (ERO) and support staff during a declared emergency.

2.0 General Notes

- 2.1 The shift relief process is a method used by ERO members and supporting plant staff to provide relief from their emergency response tasks by personnel replacement while maintaining the functions of the emergency organization.

3.0 Precautions and Limitations

- 3.1 None

4.0 Initial Conditions

- 4.1 This procedure should be implemented during the preparation for, conduct of, and closure of a shift relief when a plant emergency of alert or higher has been declared or when directed by the Emergency Director or Emergency Response Manager.

5.0 Procedure

Note

Operating Crews in the Control Room will follow established Operation's shift relief procedures.

5.1 Directors shall:

5.1.1 Prepare for shift relief

- 5.1.1.1 Determine the level of ERO support needed for your area of responsibility for the next shift.
- 5.1.1.2 Identify the individual(s) available for comprising the relief shift. Sources include individuals sent home at the start of the event for relief and individuals who were not available when the initial event notification was made.
- 5.1.1.3 Identify a location (preferably outside the response facility) where briefings and debriefings can be conducted.

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- 5.1.1.4 With the concurrence of the Emergency Director, set a relief shift briefing date and time.
- 5.1.1.5 Obtain information from the Site Protection Director concerning travel routes to or from the plant through Kewaunee and Manitowoc Counties in areas that have been evacuated.
- 5.1.1.6 Instruct the ERO members under your direction to contact their ERO position's relief to provide them with relief briefing date, time, and travel route instructions.
- 5.1.2 Conduct a shift relief briefing
 - 5.1.2.1 Gather all relief shift personnel in the predesignated location.
 - 5.1.2.2 Provide a briefing that includes, but is not limited to:
 - Brief history of the event and milestones
 - Current plant status
 - Expected relief shift activities
 - 5.1.2.3 Send relief staff to their respective workstations in small numbers, such that the operation of the facility as a whole is not disrupted.
- 5.1.3 Conduct a debriefing for the off-going shift
 - 5.1.3.1 Gather all off-going ERO members in the predesignated location.
 - 5.1.3.2 Designate an individual to record comments made by the off-going shift.
 - 5.1.3.3 Provide an opportunity for all members to identify problems, concerns, and strengths encountered during the shift just completed.
 - 5.1.3.4 Ensure a copy of the recorded comments are given to the on-coming facility directors, and a copy for the event file created in each facility.
 - 5.1.3.5 Inform the off-going shift of travel routes and monitoring expectations established by Kewaunee and/or Manitowoc Counties for evacuated areas around the plant.
 - 5.1.3.6 Inform the off-going shift of their anticipated return time. If this is not known, ensure a list of phone numbers is available for off-going staff so they can be notified of information about the next shift.
- 5.1.4 WHEN all workstations in the facility have been relieved, conduct a facility briefing to review current conditions, activities, and priorities.
- 5.1.5 IF Final Conditions (Section 6.0) have not been met, THEN return to step 5.1.

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5.1.6 IF Final Conditions (Section 6.0) have been met, THEN stop using this procedure.

5.2 The Site Protection Director (or designee) shall:

5.2.1 WHEN directed by the Emergency Director, coordinate the movement of the shift personnel to and from the Kewaunee Nuclear Power Plant (KNPP).

5.2.2 Review relief shift report location(s), time, and expected routes into the plant with Directors in the Technical Support Center (TSC).

!! Caution !!

Plant staff being relieved shall follow the evacuation and reception center check-in requirements of either the Kewaunee County Emergency Government or Manitowoc County Emergency Management when leaving the plant.

5.2.3 Contact the Kewaunee County Emergency Operations Center (EOC) to decide appropriate ingress and egress route(s) for the plant through Kewaunee County.

- a. Call (920) 487-9792 and ask for Law Enforcement.
- b. Determine the best routes through Kewaunee County and the EPZ traffic checkpoints.
- c. Discuss approximate number of people needing ingress and egress of the plant and the approximate time.
- d. Discuss the appropriate mode of transportation (car, bus, etc.).
- e. Determine county contact points for coordinating an entrance or exit from the EPZ.

5.2.4 Contact the Manitowoc County Emergency Operations Center (EOC) to decide appropriate ingress and egress route(s) for the plant through Manitowoc County.

- a. Call (920) 683-4201 and ask for the Sheriff.
- b. Determine the best routes through Manitowoc County and the EPZ traffic checkpoints.
- c. Discuss approximate number of people needing ingress and egress of the plant and the approximate time.
- d. Discuss the appropriate mode of transportation (car, bus, etc.).
- e. Determine county contact points for coordinating an entrance or exit from the EPZ.

5.2.5 IF bus transportation is needed, THEN contact the Administrative Logistics Director in the Emergency Operations Facility (EOF) to arrange for this service.

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- 5.2.6 Provide the information from steps 5.2.3 through 5.2.5 to all ERO Directors.
- 5.2.7 Review AND implement procedure EPIP-SEC-05 for staff who will be leaving the plant.
- 5.2.8 IF Final Conditions (Section 6.0) have not been met, THEN **return to step 5.2.**
- 5.2.9 IF Final Conditions (Section 6.0) have been met, THEN stop using this procedure.

5.3 All ERO members and support staff shall:

- 5.3.1 Obtain the phone number where the person designated to relieve you can be contacted while off duty.
- 5.3.2 WHEN directed, contact the relief person and give them the following information:
- Reporting location (facility or a designated staging area)
 - The route to take to the reporting location
 - The time to be at the reporting location
- 5.3.3 WHEN your relief arrives, perform a one-on-one turnover paying particular attention to:
- Status of events and activities related to the position
 - Events and activities that will carry forward into the next shift
 - Events and activities to be initiated during the next shift
- 5.3.4 Work side-by-side for as long as needed to ensure continuity of effort.
- 5.3.5 Meet for a debriefing with the off-going shift at a location designated by your director.

6.0 Final Conditions

- 6.1 The Emergency Response Manager has determined that shift rotation will not be required, or the plant emergency has been closed out, 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 EPIP-AD-03, KNPP Response to an Unusual Event
- 7.2 EPIP-AD-04, KNPP Response to Alert or Higher
- 7.3 EPIP-ENV-01, Environmental Monitoring Group Organization and Responsibilities
- 7.4 EPIP-EOF-03, Corporate Action for Unusual Event
- 7.5 EPIP-EOF-04, Corporate Action for Alert or Higher
- 7.6 EPIP-OSF-02, Operational Support Facility Operations
- 7.7 EPIP-RET-02, In-Plant Radiation Emergency Team
- 7.8 EPIP-RET-03, Chemistry Emergency Team
- 7.9 EPIP-SEC-05, Personnel Evacuation
- 7.10 EPIP-TSC-01, Technical Support Center Organization and Responsibilities
- 7.11 Nuclear Emergency Public Information Plan, Procedures Section

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-AD-18		Rev. O
		Title Potassium Iodide Distribution		
		Date JUN 05 2001		Page 1 of 5
Reviewed By <i>Alth M. Barth</i>		Approved By <i>Daniel 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 determining when and to whom potassium iodide should be made available.

2.0 General Notes

- 2.1 None

3.0 Precautions and Limitations

- 3.1 Chemical agents which inhibit iodine (as iodide) uptake by the thyroid gland shall not be used as alternatives to respiratory protection devices.
- 3.2 Some humans have experienced side effects from ingesting potassium iodide in low dosages. Therefore, the information distributed with the IOSATTM tablets should be consulted for a description of such possible side effects and appropriate dosages.
- 3.3 IF the IOSATTM tablets are powdery or discolored, or is not a whole, solid, white tablet, THEN DO NOT consume the tablets. Obtain KI from another storage location.
- 3.4 IOSATTM tablets shall NOT be made available indiscriminately. Only those persons meeting the criteria listed in Section 4.0 should have the tablets made available to them. This is required to minimize the risk of reactions to the potassium iodine and minimize the risk of thyroid damage (See Attachment A).
- 3.5 Supplies of IOSATTM (potassium iodide) shall be maintained in the Control Room, Technical Support Center, Site Boundary Facility, Environmental Monitoring Team kits, and Security Building.

4.0 Initial Conditions

- 4.1 The Radiation Projection Director (RPD) and Emergency Director (ED) are responsible for the implementation of this procedure.
- 4.2 This procedure shall be implemented during a declared emergency when:
- 4.2.1 Conditions indicate a possible exposure in excess of 25 rem to the thyroid of emergency workers, OR
- 4.2.2 Conditions indicate a possible exposure in excess of 1,000 DAC-Hours from radioiodine to occupational radiation workers.

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5.0 Procedure

- 5.1 Radiological conditions shall be monitored for indications of an uncontrolled release of radioactive iodine to the plant or external environs.
- 5.2 When conditions warrant, collect samples of the plant and environment.
- 5.3 Ensure the samples are analyzed for radio nuclides using one or more of the following procedures:
 - a. EPIP-ENV-03C
 - b. EPIP-ENV-04B
 - c. EPIP-RET-02B
 - d. EPIP-RET-03A
 - e. EPIP-RET-03C
 - f. EPIP-RET-03D
 - g. Any other plant procedure that may be applicable to the circumstances
- 5.4 The RPD shall evaluate the results of steps 5.1 through 5.3 as they become available. The RPD shall provide the information to the ED with a recommendation regarding the necessity to make KI available.
- 5.5 Inorganic salts of iodine (e.g., KI) shall only be made available when directed by the Emergency Director. The following steps shall be taken:
 - 5.5.1 Compile appropriate information to include the following:
 - a. What existing hazards or conditions indicate that potassium iodide should be made available?
 - b. When may the exposure to radioiodine start and how long may it last?
 - c. Where in the plant and/or the environment is exposure to radioiodines a concern?
 - d. Who, on-site or off-site, should be concerned about their exposure and what activities are likely to expose personnel to radioiodine?
 - e. How is the potassium iodide to be distributed and where can individuals go to receive the tablets?
 - 5.5.2 Notify all of the directors of the decision to make potassium iodide available and give them the information compiled in step 5.5.1.

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5.5.3 Ensure the emergency response organization and others are provided instruction on how to use potassium iodide and the potential side affects. This information is available on the packaging material of the IOSAT™ tablets. A copy is to be distributed to each individual that is to receive the KI tablets (See Attachment A).

5.5.3.1 The following is a synopsis of the IOSAT tablets informational material found in Attachment A of this procedure.

<p align="center">!! Caution !!</p> <p align="center">To Prevent Injury or Death</p> <p><i>People allergic to iodide should not use Potassium Iodide. In case of overdose or allergic reaction, contact a physician or public health authority.</i></p>

- a. Dose: Adults and children one year of age or older: 1 tablet once a day.
- b. Dosage: Take for 10 days unless directed otherwise. (You will probably be told not to take for more than 10 days.)
- c. Side Effects: Include skin rashes, swelling of the salivary glands, and "iodism" (metallic taste, burning mouth or throat, sore teeth and gums, symptoms of a head cold, and sometimes stomach upset and diarrhea). A few people have an allergic reaction with more serious symptoms. These could be fever and joint pains, or swelling of parts of the face or body, and at times severe shortness of breath requiring immediate medical attention.

5.5.3.1.1 IF the side effects are severe OR you have an allergic reaction, THEN STOP taking potassium iodide. If possible, call a doctor or public health authority for instructions.

5.5.4 If appropriate, potassium iodide should be made available to individuals on-site who are not involved in a response to the emergency.

5.6 IF personnel electing to ingest IOSAT™ tablets show symptoms of any side effects, THEN the RPD shall be notified. Professional medical attention for afflicted personnel shall then be immediately obtained.

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 NCRP Report No. 55, Protection of the Thyroid Gland in the Event of Release of Radioiodine
- 7.2 Bureau of Radiological Health Publication FDA 81-8958, Background Material for the Development of the Food & Drug Administration's Recommendations on Thyroid-Blocking with Potassium Iodide
- 7.3 Textbook of Endocrinology, Fifth Edition, R. H. Williams, Editor, cpy. 1974, W. B. Saunders Co., Philadelphia, PA
- 7.4 Cecil Textbook of Medicine, Fifteenth Edition, Beeson, Mc Dermott and Wyngaarden, Editors, Cpy. 1974, W. B. Saunders Co., Philadelphia, PA
- 7.5 NRC Inspection Report K-92-206
- 7.6 "Iodine Prophylaxis Following Nuclear Accidents," Proceedings of a Joint WHO/CEC Workshop, July 1988, page 167, Eileen Rubery and Elizabeth Smales, Editors, Pergamon Press
- 7.7 EPIP-AD-19, Protective Action Guidelines

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

IOSAT TABLETS

IOSATTM Tablets

(Potassium Iodide Tablets, U.S.P.)
(Pronounced: pee-IASS eum TYLE oh dyed)
(Abbreviated KI)

TAKE POTASSIUM IODIDE ONLY WHEN PUBLIC HEALTH OFFICIALS TELL YOU. IN A RADIATION EMERGENCY RADIOACTIVE IODINE COULD BE RELEASED INTO THE AIR. POTASSIUM IODIDE (A FORM OF IODINE) CAN HELP PROTECT YOU.

IF YOU ARE TOLD TO TAKE THIS MEDICINE, TAKE IT ONE TIME EVERY 24 HOURS. DO NOT TAKE IT MORE OFTEN. MORE WILL NOT HELP YOU AND MAY INCREASE THE RISK OF SIDE EFFECTS. DO NOT TAKE THIS DRUG IF YOU KNOW YOU ARE ALLERGIC TO IODIDE (SEE SIDE EFFECTS BELOW).

INDICATIONS

THYROID BLOCKING IN A RADIATION EMERGENCY ONLY

DIRECTIONS FOR USE

Use only as directed by State or local public health authorities in the event of a radiation emergency.

DOSE

ADULTS AND CHILDREN ONE YEAR OF AGE OR OLDER: One (1) tablet once a day. Crush for small children.

BABIES UNDER ONE YEAR OF AGE: One half (1/2) tablet once a day. Crush first.

DOSAGE: Take for 10 days unless directed otherwise by State or local public health authorities. Store at controlled room tempera-

ture between 15° and 30° C (59° to 86° F). Keep package dry and foil packets intact.

WARNING

POTASSIUM IODIDE SHOULD NOT BE USED BY PEOPLE ALLERGIC TO IODIDE. Keep out of the reach of children. In case of overdose or allergic reaction, contact a physician or public health authority.

DESCRIPTION

Each IOSATTM Tablet contains 130 mg. of potassium iodide.

HOW POTASSIUM IODIDE WORKS

Certain forms of iodine help your thyroid gland work right. Most people get the iodine they need from foods like iodized salt or fish. The thyroid can "store" or hold only a certain amount of iodine.

In a radiation emergency, radioactive iodine may be released in the air. This material may be breathed or swallowed. It may enter the thyroid gland and damage it. The damage would probably not show itself for years. Children are most likely to have thyroid damage.

If you take potassium iodide, it will fill up your thyroid gland. This reduces the chance that harmful radioactive iodine will enter the thyroid gland.

WHO SHOULD NOT TAKE POTASSIUM IODIDE

The only people who should not take potassium iodide are people who know they are allergic to iodide. You may take potassium iodide even if you are taking medicines for a thyroid problem (for example, a thyroid hormone or antithyroid drug). Pregnant and nursing women and babies and children may also take this drug.

HOW AND WHEN TO TAKE POTASSIUM IODIDE

Potassium iodide should be taken as soon as possible after public health officials tell you. You should take one dose every 24 hours. More will not help you because the thyroid can "hold" only limited amounts of iodine. Larger doses will increase the risk of

side effects. You will probably be told not to take the drug for more than 10 days.

SIDE EFFECTS

Usually, side effects of potassium iodide happen when people take higher doses for a long time. You should be careful not to take more than the recommended dose or take it for longer than you are told. Side effects are unlikely because of the low dose and the short time you will be taking the drug.

Possible side effects include skin rashes, swelling of the salivary glands, and "iodism" (metallic taste, burning mouth and throat, sore teeth and gums, symptoms of a head cold, and sometimes stomach upset and diarrhea).

A few people have an allergic reaction with more serious symptoms. These could be fever and joint pains, or swelling of parts of the face or body and at times severe shortness of breath requiring immediate medical attention.

Taking iodide may rarely cause overactivity of the thyroid gland, underactivity of the thyroid gland, or enlargement of the thyroid gland (goiter).

WHAT TO DO IF SIDE EFFECTS OCCUR

If the side effects are severe or if you have an allergic reaction, stop taking potassium iodide. Then, if possible, call a doctor or public health authority for instructions.

HOW SUPPLIED

IOSAT Tablets (Potassium Iodide Tablets, U.S.P.) packages of 14 tablets (NDC 51803 001 01). Each white, round, scored tablet contains 130 mg. potassium iodide.

Distributed by
ANDEX, INC.
15 W. 75th St., New York, N.Y. 10023

INDICATIONS: THYROID BLOCKING IN A RADIATION EMERGENCY ONLY.



WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>		No.	EPIP-RET-02	Rev.	S
		Title	In-Plant Radiation Emergency Team		
		Date	JUN 05 2001	Page 1 of 5	
Reviewed By <i>[Signature]</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, when activated.

2.0 General Notes

- 2.1 None

3.0 Precautions and Limitations

- 3.1 Generally, but depending on the nature, class, and magnitude of the emergency, the following list of priorities should be 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 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.

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No.	EPIP-RET-02	Rev.	S
	Title	In-Plant Radiation Emergency Team		
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4.0 Initial Conditions

- 4.1 The In-Plant Radiation Emergency Team (IRET) will be activated upon declaration of an **Alert, Site Emergency, General Emergency**, or at the discretion of the Radiological Protection Director (RPD) or Emergency Director (ED).
- 4.2 The In-Plant Radiation Emergency Team (IRET) has been activated.

5.0 Procedure

5.1 Initial Action

- 5.1.1 IF on-site, THEN assemble in the Radiation Protection Office (RPO). IF this area is not habitable, THEN report to the Radiological Analysis Facility (RAF).
 - 5.1.2 IF notified when off-site, THEN report to your duty location.
 - 5.1.3 IF on-shift or on-site, THEN immediately implement procedure EPIP-RET-02A, "RPO - RAF Activation."
 - 5.1.4 Obtain meteorological condition from Plant Indicator Computer System. As a backup, use the Technical Support Center, Honeywell Graphic Output (Group Number 9 - Meteorological Data), or chart recorders.
 - 5.1.5 Determine if any abnormal airborne gaseous radioactive releases are occurring (EPIP-RET-02B).
 - 5.1.6 Restrict access into the RCA except as authorized by the ED or the RPD.
- Note**
Dosimetry issue will primarily be accomplished in the Security Building per EPIP-SEC-04.
- 5.1.7 Issue dosimetry and respiratory equipment, if required.
 - 5.1.8 Accompany emergency repair teams entering the RCA or areas of unknown dose rates to provide radiological protection coverage. Document all entries on Radiation Work Permits (See EPIP-AD-11). Maintain radiation doses to workers ALARA.
 - 5.1.9 If appropriate, plan for a shift relief per EPIP-AD-05.

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No.	EPIP-RET-02	Rev.	S
	Title	In-Plant Radiation Emergency Team		
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5.2 Subsequent Actions

5.2.1 The following actions are not immediate responses but rather are subsequent actions that can be taken to mitigate the emergency condition. Any or all of the following actions may be performed by the IRET when directed by the RPD or ED.

- 5.2.1.1 Perform emergency entries into high radiation and contamination areas for surveying and dose rate documentation purposes (EPIP-RET-02D).
- 5.2.1.2 Sample airborne gaseous radioactive release paths to the environment (EPIP-RET-02B).
- 5.2.1.3 Off-site dose projections if the Emergency Operating Facility (EOF) has not been activated (EPIP-ENV-03C).
- 5.2.1.4 Document doses received, entries made, and work performed under emergency conditions (EPIP-AD-11).
- 5.2.1.5 Evaluate methods of recovery planning (EPIP-AD-15).
- 5.2.1.6 Monitor for continued habitability of site facilities.
- 5.2.1.7 Provide contamination control at the Aurora Medical Center (EPIP-RET-08).
- 5.2.1.8 Interface with Point Beach Nuclear Plant for sample analysis, additional emergency equipment requirements, sample transportation, assisting with injuries, etc., as required.
- 5.2.1.9 Maintain interim storage for highly contaminated samples.
- 5.2.1.10 Distribute thyroid blocking agents (EPIP-AD-18).
- 5.2.1.11 Evaluate availability and procurement of supplies which may be required.
- 5.2.1.12 Perform source check/calibration checks of radiation detection instruments to assure proper operation.
- 5.2.1.13 Provide for storage or disposal of contaminated items and clothing, operation of decon laundry, and area maintenance of step-off pads.
- 5.2.1.14 Perform surveys to control the spread of contamination out of the Controlled Area and the plant.
- 5.2.1.15 Ensure availability of sufficient decontamination equipment.
- 5.2.1.16 If requested, interface with Environmental, Inc. for off-site sample analysis.

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5.2.1.17 Provide for decontamination and cleaning of respiratory equipment. IF the respirator cleaning room is not habitable, THEN set up an area in the RAF for respirator cleaning and decon. Refer to HP-02.002, "Respiratory Protective Equipment."

5.2.1.18 Assist in search and rescue operations in controlled areas.

5.2.1.19 Assist with the treatment of injuries in accordance with current safety rules including safety rule book (Section 2) and applicable procedures and policies, NAD-02.09, EPIP-RET-08, and the KNPP Blood Borne Pathogen Plan.

6.0 Final Conditions

6.1 Plant Emergency has been Terminated or Recovery actions have begun and the responsible director has suspended the use of EIPs.

7.0 References

- 7.1 EPIP-RET-02B, Gaseous Effluent Sample and Analysis
- 7.2 EPIP-RET-02D, Emergency Radiation Entry Controls and Implementation
- 7.3 EPIP-SEC-02, Security Force Response to Emergencies
- 7.4 EPIP-ENV-03C, Dose Projection Using RASCAL Version 2.2 Software
- 7.5 EPIP-SEC-04, Security Force Actions for Dosimetry Issue
- 7.6 EPIP-AD-05, Emergency Response Organization Shift Relief Guideline
- 7.7 EPIP-AD-11, Emergency Radiation Controls
- 7.8 EPIP-AD-15, Recovery Planning and Termination
- 7.9 EPIP-RET-08, Contamination Control at the Aurora Medical Center
- 7.10 EPIP-RET-02A, RPO - RAF Activation
- 7.11 EPIP-AD-18, Potassium Iodide Distribution
- 7.12 HP-02.002, Respiratory Protective Equipment
- 7.13 NAD-02.09, Occupational Injuries or Vehicle Accidents During Operations (ACD 15.2)

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8.0 Records


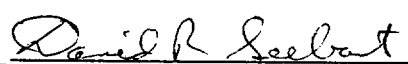
- 8.1 The following QA records and non-QA records are identified in this directive/procedure and are listed on the KNPP Records Retention Schedule. These records shall be maintained according to the KNPP Records Management Program.

8.1.1 QA Records

None

8.1.2 Non-QA Records

None

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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 activating the Radiation Protection Office/ Radiological Analysis Facility (RPO/RAF).

2.0 General Notes

- 2.1 None

3.0 Precautions and Limitations

- 3.1 Evacuate the RPO prior to general area radiation levels exceeding 50 mR/hr. Relocate to the RAF.

4.0 Initial Conditions

- 4.1 This procedure shall be utilized by the Radiation Emergency Team upon declaration of an **Alert, Site Emergency, General Emergency**, or at the discretion of the Radiological Protection Director (RPD) or Emergency Director (ED).

5.0 Procedure

- 5.1 Perform the following to activate the RPO/RAF. The tasks may be performed in any order or simultaneously unless stated otherwise.
- 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 RPD.
- 5.1.2 Designate an RPD.
- 5.1.3 Perform the following to initiate Site Boundary Facility (SBF) Activation:
- 5.1.3.1 Dispatch the Site Radiation Emergency Team (SRET) to the SBF to activate the SBF and establish radiological controls per EPIP-RET-04. SBF activation is required upon declaration of an ALERT or higher per EPIP-AD-04.
- 5.1.3.2 Dispatch an IRET member to the SBF to assist in counting equipment setup, oversee radiological controls at the SBF, interface with the Environmental Monitoring Teams, and maintain communications between the SBF and RPO/RAF. This person shall act as the SBF Coordinator per EPIP-RET-04.

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5.1.4 Perform the following to activate the RPO:

- 5.1.4.1 Assign a radiation protection leadman and a sufficient number of technologists/clerks to the RPO to process unnecessary personnel out of the Auxiliary Building/Containment and to maintain personnel accountability.
- 5.1.4.2 Determine which personnel are in the Radiologically Controlled Area (RCA) by checking Personnel Medical Exposure Training Security (PMETS) System or (if used) the RCA sign-in sheets in RPO/RAF. Notify the RPD immediately of any problems.
- 5.1.4.3 Perform general area radiation surveys in the RPO, monitor room, change room, machine shop, and electric shop. Set up a radiation instrument in the RPO for continuous monitoring of radiation levels.
- 5.1.4.4 If airborne grab samples are deemed necessary, record all data on "Emergency Sample Worksheet," Form EPIPF-RET-02A-02.

5.1.5 If evacuation of the RPO becomes necessary, proceed as follows:

- 5.1.5.1 As soon as conditions permit, dispatch non-IRET personnel to their emergency duty stations and evacuate to the RAF.
- 5.1.5.2 Collect the following items prior to evacuating 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. SPING Keys
 - g. Auxiliary Building Sign-in Sheets (if being used)
 - h. RPO Logbook
 - i. Personnel TLD Badges and Control Badges
 - j. First Aid Responder Kit
 - k. Electronic Dosimeters

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5.1.5.3 During RPO evacuation, announce 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.”

5.1.5.4 Ensure that a sign, ropes, etc., are conspicuously posted at the RPO access to the controlled area, warning personnel to proceed to the RAF when making any controlled area entries.

5.1.6 Perform the following to activate the RAF:

5.1.6.1 All Radiation Protection and Chemistry Group personnel not required for shutdown of the RPO shall report to the RAF to activate that center. Maintain personnel accountability per EPIP-SEC-03.

5.1.6.2 Collect items noted in Step 5.1.5.2 that can be taken to the RAF at this time.

5.1.6.3 Designate a senior person to be in charge of RAF activation and activities controlled from the RAF.

5.1.6.4 Ensure that RAF counting equipment is operable.

5.1.6.5 Test the SPING unit and get a printout of all SPING channel readings. Use an input of “DATA, 01, 0, ENTER,” etc.

a. Periodically (at least hourly) repeat Step 5.1.6.5 and monitor all other RMS channel parameters available to ensure operability of fixed radiation monitoring equipment. Use Honeywell graphic output 12 for SPING data, 13 for non-SPING data.

b. Data may also be obtained using the “RADAC” RMS Control Console in the RAF.

5.1.6.6 Test walkie-talkie and base station radio communication.

5.1.6.7 WHEN Steps 5.1.6.1 through 5.1.6.6 are complete, notify the RAF staff, the TSC, and EPD (if available) that the RAF is fully activated. Then refer back to Section 5.0 of EPIP-RET-02 and review all initial and subsequent sections listed.

5.1.7 Control the conduct of radiological protection emergency operations from the RAF.

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

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- 5.1.7.2 IF conditions require or per the direction of the RPD, THEN ensure personnel are provided with appropriate radiation monitoring devices.

Note

The Electronic Dosimeter (ED), using the PMETS System, is the preferred method for RCA entry.

- 5.1.7.3 Record the issue of self-reading dosimeters (SRD) on "Emergency Dosimeter Log," Form EPIPF-SEC-04-01. Personnel issued an SRD shall monitor their individual dose as indicated by the SRD frequently and report to the RPO/RAF/SBF to have it re-zeroed if it reads 150 mR or more, is found to be off-scale, or at the end of the work shift, whichever occurs first.

Note

Periodic Gai-Tronics announcements or other communications should be used to remind personnel to monitor their individual dose.

6.0 Final Conditions

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

7.0 References

- 7.1 EPIP-AD-04, KNPP Response to Alert or Higher
- 7.2 EPIP-AD-12, Personnel Assembly and Accountability
- 7.3 EPIP-RET-02, In-Plant Radiation Emergency Team
- 7.4 EPIP-RET-04, SBF Activation
- 7.5 EPIP-SEC-03, Personnel Assembly and Accountability
- 7.6 EPIP Appendix B, Forms
- 7.7 COMTRAK 89-305, Item 2
- 7.8 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
- Emergency Dosimeter Log Security, Form EPIPF-SEC-04-01

8.1.2 Non-QA Records

None

EMERGENCY SAMPLE WORKSHEET

Sample type (check):

☐ RAP

☐ PARTICULATE

☐ WATER

☐ CHARCOAL

☐ GAS MARINELLI

☐ VEGETATION

☐ SILVER ZEOLITE

☐ 4" HI-VOL

☐ OTHER _____

Sample Location-Describe _____

Grid Map Coordinates _____

Sample Date and Time _____

Name of Person Doing Sampling _____

Sampling Equipment - Type and Serial No. _____

Duration of Sample _____

Air Sampler Flow Rate or Total Sample Volume _____

ATTACH SAMPLE COUNTING RESULTS OR WRITE RESULTS BELOW:

WHERE IS SAMPLE STORED _____

SAMPLE IS LABELED AS: S/N _____