

Kewaunee Nuclear Power Plant N490 Highway 42 Kewaunee, WI 54216-9511 920.388 2560 Point Beach Nuclear Plant 6610 Nuclear Road Two Rivers, WI 54241 920 755.2321

Kewaunee / Point Beach Nuclear Operated by Nuclear Management Company, LLC

NRC-02-104

December 6, 2002

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,

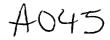
Thomas Coutu

Thomas Coutu Site Vice President

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, wo/attach.



	DOCUMENT TRANSMITTAL
	KEWAUNEE NUCLEAR POWER PLANT
	FROM: DIANE FENCL - KNPP TRANSMITTAL DATE, 11-26-2002
\bigcirc	EMERGENCY PLAN IMPLEMENTING PROCEDURES TRANSMITTAL FORM
	OUTSIDE AGENCY COPIES (1-20)
	S. Campion - NRC Region III (2, 3)* S. Campion - NRC Region III (2, 3)* S. Campion - NRC Resident Inspector (4) (receives Appx. A phone numbers)* S. Campion - State of Wisconsin (5)* S. Campion - KNPP QA Vault (NRC Letter & Memo Only) (15)* Krista Kappelman - PBNP - EP (10)* Craig Weiss - Alliant Energy (11)* Jill Stern - Nuclear Management Company (12)*
	and the second sec
ر ۳ ۰ ۲	<u>PERSONAL COPIES</u> (21-40) These copies are for the personal use of the listed individuals for reference or emergency response.
•	J. Bennett (33) D. Seebart (24) J. Ferris (13) T. Coutu (28)
	<u>REFERENCE COPIES - CUSTODIAN</u> (41-100) These copies are for general reference by anyone. They are distributed throughout the plant and corporate offices. The named individual is the responsible custodian for the procedures and shall insure they are properly maintained.
	NO Library - KNPP (59) Resource Center - Training (82) C. Sternitzky - ATF-2 (44) D. Krall - CR/SS Office (51, 56) M. Daron - Security Building (46) C. Grant - TSC (50) Y. Grant - EOF (81) W. Galarneau - RAF (53) C. Grant - OSF (52) W. Galarneau - SBF/EMT (54) LOREB - STF (62, 66, 67, 68, 70, 72, 73; 74) W. Galarneau - RPO (55) STF Library (43) STF (86, 87, 88)
	WORKING COPIES (101-199) These copies of procedures are kept in the areas designated for use in response to an emergency.
	W. Galarneau - RAF/RPO (106, 107)Simulator/Communicator (117)W. Galarneau - SBF/ENV (108, 109)M. Fencl - Security (121)W. Galarneau - SBF/EM Team (110, 111, 111A)S. Zutz - Security Building (120)W. Flint - Cold Chem/HR Sample Room (113)Ops Admin. (126)S. Zutz - SBF/SEC (114)C. Grant - TSC Response Binder (Partial Distribution)D. Krall - CR/Communicator (116)(Partial Distribution)C. Grant - EOF Response Binder (Partial Distribution)
	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.

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

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KEWAUNEE NUCLEAR POWER PLANT **REVISION OF EMERGENCY PLAN IMPLEMENTING PROCEDURES**

November 26, 2002

Please follow the directions listed below. If you have any questions regarding changes made to the EPIPs, please contact Dave Seebart at ext. 8719.

EPIP Index, dated 11-26-2002.

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	REV.	PROCEDURE	• REV. •
EPIP-AD-01	Jree	EPIP-AD-01	K
EPIP-AD-02	AD	EPIP-AD-02	AE
EPIP-OSF-02	U	EPIP-OSF-02	V
EPIP-SEC-03	AE	EPIP-SEC-03	AF
EPIP-TSC-08A	·· N	, EPIP-TSC-08A	. 0 -

Return a signed and dated copy of this transmittal letter, within 10 days of transmittal date, to the sender. If you have any questions or comments, please contact Dave Seebart at ext. 8719

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

SIGNATURE Please return this sheet to DIANE FENCL.

DATE

Diane Fencl

Enclosure đ,

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M. L. M. B. B. Miller

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EPIP-AD-03	KNPP Response to an Unusual Event	AF	• 06-20-2002	
EPIP-AD-04	KNPP Response to Alert or Higher	AK	08-20-2002	
EP-AD-5	Site Emergency	Deleted	04-27-87	
EPIP-AD-05	Emergency Response Organization Shift Relief Guideline	D	05-09-2002	
EP-AD-6	General Emergency	Deleted	04-24-87	
EPIP-AD-07	Initial Emergency Notifications	AR	06-20-2002	
EP-AD-8	Notification of Alert or Higher	Deleted	02-26-96	
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EP-AD-10	Notification of General Emergency	Deleted	04-27-87	
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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	
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EPIP-ENV-02	Environmental Monitoring Team Activation	Х	10-02-2001
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	W	08-20-2002
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	Т	08-20-2002
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EP-ENV-4C	Environmental Monitoring Teams	Deleted	04-13-90
EPIP-ENV-04C	Ground Deposition Sampling and Analysis	, . X	08-20-2002
EPIP-ENV-04D	Plume Tracking for Environmental Monitoring Teams	0	08-20-2002
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
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EMERGENCY PLAN IMPLEMENTING PROCEDURES

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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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EPIP-EOF-03	EOF Staff Action for Unusual Event	AC	02-06-2002
EPIP-EOF-04	EOF Staff Action for Alert or Higher	AJ	08-06-2002
EP-EOF-5	Corporate Staff Action for Site Emergency	Deleted	04-24-87
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EPIP-EOF-08	Continuing Emergency Notifications	x	06-20-2002
EP-EOF-9	Interface with Support Organizations	Deleted	03-05-84
EP-EOF-9	Notification of Site Emergency	Deleted	04-24-87
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EP-OP-3	Control Room Communications	Deleted	04-24-87	
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EPIP-OSF-02	Operational Support Facility Operations	v	11-26-2002	
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EP-OSF-4	Operational Support Facility Communications	Deleted	04-24-87	
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EPIP-RET-02	In-Plant Radiation Emergency Team	v	05-23-2002	
EPIP-RET-02A	Radiation Protection Office/Radiological Analysis Facility (RPO/RAF) Activation	U	11-07-2002	
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EPIP-RET-02D	Emergency Radiation Entry Controls and Implementation	М	06-12-2001	
EP-RET-2E	Handling of Injured Personnel	Deleted	04-16-96	
EP-RET-2F	Personnel Decontamination	Deleted	04-13-90	
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EPIP-RET-03A	Liquid Effluent Release Paths	L	11-29-2001	
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EPIP-RET-04A	SBF Operation/Relocation	Deleted	10-02-2001
EP-RET-4B	Radiological Controls at Site Access Facility	Deleted	07-12-94
EP-RET-4C	Site Radiological Monitoring	Deleted	07-12-94
EP-RET-4D	SAM-II Operation	Deleted	07-12-94
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EP-RET-7	Radiological Analysis Facility/Radiation Protection Office Communications	Deleted	04-24-87
EPIP-RET-08	Contamination Control of the Aurora Medical Center	Deleted	05-23-2002
EPIP-RET-09	Post-Accident Population Dose	L	04-16-2002
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EPIP-SEC-05	Personnel Evacuation	G	06-20-2002	
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EPIP-TSC-04	Emergency Physical Changes, Major Equipment Repair	N	05-09-2002	
EP-TSC-5	Technical Support Center Communications Equipment	Deleted	04-24-87	
EP-TSC-6	Assessment of Reactor Core Damage	Deleted	09-30-86	
EPIP-TSC-07	RV Head Venting Time Calculation	J	06-20-2002	
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EP-TSC-9	Core Damage Assessment Using Released Radionuclides	Deleted	09-30-86	
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* EP-TSC-9A, Rev. D was totally deleted; therefore, EP-TSC-9B became EP-TSC-9A. EP-TSC-9B was previously EP-TSC-9C.				
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EPIP-APPX-A-06	EP-FIG-022	APPX-A-06-04	EOF - WPSC D2-3 Floor Plan	С	10-30-2001
EPIP-EOF-12	EP-FIG-024	EOF-12-02	Location of JPIC and Media Briefing Center Map	С	06-20-2002
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EPIP-OSF-02	EP-FIG-039A	OSF-02-02	Lower Priority Work	A	10-02-2001
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AD-11-01	Emergency Radiation Work Permit	G	04-11-2002		
AD-18-01	Airborne Radioiodine Dose Accountability and Potassium Iodide Distribution	В	08-06-2002		
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ENV-01-03	Meteorological and Plant Status Data	С	12-14-2001		
ENV-01-04	EMT Orders/Field Data	В	10-31-2000		
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RET-02B-01	Containment Stack Release (Grab Sample)	D	08-06-2002
RET-02B-02	Auxiliary Building Stack (Grab Sample)	D	08-06-2002
RET-02B-03	Auxiliary Building Stack (Sping Reading)	D	08-06-2002
RET-02B-04	Containment Stack (Sping Reading)	C	08-06-2002
RET-02B-05	Steam Release	D	08-06-2002
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RET-04-01	SAM-2 Counting Equipment Worksheet	E	06-12-2001
RET 8.3	Hospital Survey 1	Deleted	06-05-2001
RET 8.4	Hospital Survey 2	Deleted	07-25-97
RET 8.5	Hospital Survey 3	Deleted	07-25-97
RET-08-06	Hospital Survey 4	Deleted	05-23-2002
RET-09-01	Post-Accident TLD Record Sheet	D	04-16-2002
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TSC-02-04	TSC Chart Recorder Operation Checklist	D	01-30-2001
TSC-02-05	TSC and OSF De-activation Checklist	А	10-09-2001
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TSC-03-02	Plant Equipment Status	L	06-12-2001
TSC-03-03	Environmental Status Board	J	06-12-2001
TSC-03-04	Radiation Monitors	I	01-08-2002
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TSC-04-02	Emergency Physical Change Safety Review	Deleted	05-09-2002
TSC-04-03	Emergency Physical Change Index	F	08-29-2000
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TSC-08A-01	Steam Release Data Sheet (Energy Balance)	Н	12-14-2001
TSC-08A-02	Steam Release Calculation Sheet (Energy Balance)	G	12-14-2001
TSC-08A-03	Steam Release Data/Calculation Sheet (Open Valve)	E	12-14-2001
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TSC-09A-01	Core Exit Thermocouple Data	D	05-16-2002
TSC-09A-02	Fuel Rod Clad Damage Estimate	D	05-16-2002
TSC-09A-03	Fuel Rod Overtemperature Damage Estimate	E	05-16-2002
TSC 9A.4	Core Damage Based on Activity Ratios	Deleted	05-16-2002
TSC-09A-05	Core Damage Assessment (Monitoring Data)	E	05-16-2002
TSC 9A.6	Core Damage Summary	Deleted	05-16-2002

WISCON	SIN PUBLIC SER	/ICE CORP.	No.	EPIP-A	D-01	Rev.	К	
and the second			Title Personnel Response to the Plant Emergency Siren					
Emergenc	y Plan Implementi	ng Procedure	Date	NO	V 26 2002	Page 1	of 4	
Reviewed By	Reviewed By Dave Seebart				. L. Yarosz			
Nuclear Safety Related	□ Yes ☑ No	PORC Review Required	-1		SRO Approval O Temporary Changes Require		□ Yes ☑ 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 and qualified Emergency Response Organization (ERO) responders.
- 2.2 When the plant emergency siren sounds, stop your work and listen for the plant page announcement for further information.

J 3.0 Precautions and Limitations

- 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)
 - ERF Communicator Control Room (ERFCM-CR)
 - Notifier (SEC-N)
 - NRC Communicator (NRCCM)
 - Control Room Support (SP-C)
 - NRC Resident Inspector
 - CAS Operator
 - Shift Technical Advisor (STA)

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6	Kewaunee Nuclear Power Plant	a sea a second attracts and the second attracts and the second attracts and the second attracts attrac				
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3.3 <u>IF</u> no Accountability Coordinator (AC) is available in an Assembly Area, <u>THEN</u> one of the first ERO members to arrive should implement Section 5.3 of EPIP-SEC-03, "Personnel Assembly and Accountability," until relieved by a designated Accountability Coordinator.

4.0 Initial Conditions

4.1 This procedure shall be implemented upon the sounding of the plant emergency siren accompanied by a plant page announcement of a **Declared Emergency**, or when directed by the Shift Manager (SM) or Emergency Director.

5.0 Procedure

3.

- 5.1 When personnel within the Site Boundary hear the emergency siren and the page announcement of a declared emergency, 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 their turn out gear location and contact the Shift Manager (SM) or Event Operations Director (EOD)
 - On-Shift NAOs contact the SM or EOD
 - Security Force personnel contact to the Shift Captain
 - Dispatched emergency teams such as search and rescue or repair teams contact to the SM or Support Activities Director (SAD)

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- 5.1.2 Visitors, contractors, and non-ERO personnel on-site shall 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

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- b. IF outside the PA, <u>THEN</u> report to one of the following areas:
 - Security Building Classroom C
 - Simulator Training Facility (STF) Lunchroom
- 5.2 While in transit to your duty location or assembly area and you observe:
 - 5.2.1 <u>An injured person or vehicle accident</u> Report the event to the Radiation Protection Director in the TSC or the Shift Manager using the closest communication system available. Then, provide assistance to any victims to the best of your ability until help arrives and without causing bodily harm to yourself.
 - 5.2.2 <u>Any plant system or structural problem</u> Report your observation to the OSF as soon as possible after arriving at your duty location or assembly area.
- 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. <u>IF</u> reporting to a designated county relocation area, <u>THEN</u> 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 EPIPs or it has been determined that accountability is no longer required.

7.0 References

- 7.1 EPIP-SEC-03, Personnel Assembly and Accountability
- 7.2 Figure EPIPFG-SEC-05-01, KNP Site Map and Evacuation Routes

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	WISCONSIN PUBLIC SERVICE CORP.	No	EPIP-AD-01	Rev. K
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8.0 Records

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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 <u>QA Records</u>

None

8.1.2 Non-QA Records

None

F 1			
WISCONSIN PU	BLIC SERVICE CORP.	No. EPIP-AD-02	Rev. AE
		Title Emergency Class Deter	mination
Kewaunee N	uclear Power Plant		.1
Emergency Plan	mplementing Procedure	Date NOV 26 2002	Page 1 of 21
Reviewed By Dave Se	eebart	Approved By W. L. Yarosz	-
Nuclear Safety Related	✓ Yes ∠□ No ↓ PORC Review Required	☑ Yes SRO Approval C □ No Changes Requir	

1.0 Purpose

1.1 This procedure provides instruction for determining proper emergency classification listed in order to activate the appropriate level of response from the Kewaunee Nuclear Power Plant (KNPP) emergency response organization and off-site response organization.

2.0 General Notes

2.1 None

3.0 Precautions and Limitations

- 3.1 Plant monitors used to determine whether emergency classification levels are being exceeded should be checked for accuracy prior to declaring an emergency class (e.g., compare against redundant channels, determine if consistent with system status, or verification by sample analysis when required by Chart A(1).
- 3.2 This procedure is not written to facilitate de-escalation. Therefore, any decision to deescalate must be based on a thorough review of procedures and plant conditions. If appropriate, it is preferable to terminate or enter recovery. However, there may be occasions where it is appropriate to de-escalate.
- 3.3 An emergency classification should be made within 15 minutes of recognizing that conditions exist requiring classification in accordance with the EALs. This 15 minute goal is in addition to the 15 minute notification requirement once an emergency declaration has been made on "Event Notice," Form EPIPF-AD-07-01. There are times when it may be appropriate to delay classification while significant changes in plant parameters are evaluated for their impact on classification. Examples of such events are an unanticipated:
 - Plant Trip
 - SI Initiation
 - Entry into an orange or red path
 - Loss of a safety system

If such an event should occur during classification, it may be appropriate to exceed the 15 minute goal to ensure an accurate classification.

WISCONSIN PUBLIC SERVICE CORP.	No. EPIP-AD-02 Rev. AE
	Title Emergency Class Determination
Kewaunee Nuclear Power Plant	
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4.0 Initial Conditions

4.1 This procedure applies during any plant evolution that may result in an emergency declaration.

5.0 Procedure

- 5.1 Determine if a plant emergency exists during abnormal plant conditions by referring to Table 2-1, Emergency Action Level Charts.
- 5.2 IF a plant emergency exists, <u>THEN</u> perform the required actions of the appropriate emergency procedure listed below:
 - 5.2.1 EPIP-AD-03, "KNPP Response to an Unusual Event"
 - 5.2.2 EPIP-AD-04, "KNPP Response to Alert or Higher"
- 5.3 As plant conditions change, continue referring to the Emergency Action Level Charts.

5.4 Determine if the emergency should be reclassified.

- 5.5 IF the event is reclassified, THEN return to Step 5.2.
- 5.6 IF Final Conditions (Section 6.0) are not met, <u>THEN</u> return to Step 5.3.
- 5.7 IF Final Conditions (Section 6.0) are met, <u>THEN</u> use of this procedure may be suspended.

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.

~	WISCONSIN PUBLIC SERVICE CORP.	No		EPIP-A	AD-02	2. ::.	-k ^{1,1} 1	Re	₹V.	AE	
	Kewaunee Nuclear Power Plant	Titlè	· · ·	Emerge	ency	Class	Deter	minati	on		
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بر تر .	Emergency Plan Implementing Procedure	Date	<u>.</u>	NC	OV 26	2002		Pag	je 3 (of 21	,

7.0 References

- 7.1 Kewaunee Nuclear Power Plant Emergency Plan
- 7.2 EPIP-AD-01, Personnel Response to the Plant Emergency Siren
- 7.3 EPIP-AD-03, KNPP Response to an Unusual Event
- 7.4 EPIP-AD-04, KNPP Response to Alert or Higher
- 7.5 COMTRAK 89-001, NRC Inspection Report 88-11, Improve Guidance for Fires Chart G
- 7.6 OEA 87-246, Report OE 2265, Improve Description of Unusual Aircraft Activity Chart P
- 7.7 NRC Letter 07-11-94, Branch Position on Acceptable Deviations to NUREG-0654

8.0 Records

- - 8.1.1 <u>QA Records</u>

None

8.1.2 <u>Non-QA Records</u>

None

EMERGENCY ACTION LEVEL CHARTS -----

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The following charts are separated into different abnormal operating conditions which may, depending upon their severity, be classified as an Unusual Event, Alert, Site Emergency, or General Emergency.

	CHART	PAGE .
Abnormal Radiological Effluent	A (1)	5 `
Gaseous Effluent Action Levels	A (2)	6 - 8
Fuel Damage Indication	В	9
Primary Leak to LOCA	С	10
Primary to Secondary Leak	, D	11
Loss of Power	Е	12
Engineered Safety Feature Anomaly	F	13
Loss of Indication	G	14
DELETED	н. Н.	14
Secondary Side Anomaly	I	15
Miscellaneous Abnormal Plant Conditions	J	16
Fire and Fire Protection	K	17
DELETED	L	17
Earthquake	М	
High Winds or Tornado	N	18
Flood, Low Water, or Seiche	` O	19
External Events and Chemical Spills	Р	20
Security Contingency	Q	21

Table 2-1 EPIP-AD-02 Rev. AE

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CHART A(1) ABNORMAL RADIOLOGICAL EFFLUENT

	KNPP INDICATION	EMERGENCY CLASSIFICATION CRITERIA	CLASSIFICATION
	SEE CHART A(2)	Effluent monitors detect levels corresponding to greater than 1 rem/hr whole body or 5 rem/hr thyroid at the site boundary under " <u>actual</u> <u>meteorological</u> " conditions.	GENERAL EMERGENCY
by t	ected or measured dose rates to be provided he Radiological Protection Director or ironmental Monitoring Teams.	Projected or measured in the environs dose rates greater than 1 rem/hr whole body or 5 rem/hr thyroid at the site boundary.	GENERAL EMERGENCY
	SEE CHART A(2)	Effluent monitors detect levels corresponding to greater than 50 mr/hr for ½ hour <u>OR</u> greater than 500 mr/hr for two minutes (or five times these levels to the thyroid) <u>OR</u> for "adverse meteorology."	SITE EMERGENCY
by t	ected or measured dose rates to be provided he Radiological Protection Director or ironmental Monitoring Teams.	At the site boundary, projected or measured dose rates greater than 50 mr/hr for ½ hours <u>OR</u> greater than 500 mr/hr for two minutes (or five times these levels to the thyroid) or EPA PAGs are projected to be exceeded outside the site boundary.	SITE EMERGENCY
	SEE CHART A(2)	Radiological effluents greater than 10 times ODCM instantaneous limits.	ALERT
a. b. c. d.	Containment R-2 OR R-7 \ge 1.0E+4 mr/hr, <u>OR</u> Charging Area R-4 \ge 1.0E+4 mr/hr, <u>OR</u> SFP Area R-5 \ge 1.0E+4 mr/hr, <u>OR</u> Plant area air sample indicates airborne contamination > 1,000 times the occupational DAC values.	Radiation levels or airborne contamination which indicate a severe degradation in the control of radioactive materials (e.g., radiation levels suddenly increase by a factor of 1,000).	ALERT
(1)	<u>Gaseous Releases</u> : See Chart A(2) <u>Liquid Releases</u> : Notification by the Rad-Chem Group of violating ODCM 3.3.1 limits.	Offsite Dose Calculation Manual limits exceeded.	UNUSUAL EVENT

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CHART A(2) GASEOUS EFFLUENT ACTION LEVELS

1. AUX BUILDING VENT RELEASES - WITH SIGNIFICANT CORE DAMAGE

Instrument readings assuming a post accident gas release <u>AND</u> Containment High Range Radiation Monitors 42599 (R-40) and 42600 (R-41) reads 1000 R/hr within one-half hour of the accident.

<u>NOTE</u>: Use adverse meteorology conditions (ADV MET) only when, 10m and 60m wind speed < 5mph <u>AND</u> Delta-T > +2.4 degrees F or Sigma Theta is < 3.01 degrees. All other cases are average meteorology (AVG MET).

NOTE: R-13 and R-14 are expected to be off scale high during all events on this pag

	V & SFP FANS	AU	X BLDG SPI	NG MONIT	ORS	AUX	EMERG. CLASS.			
		MID RANGE CPM (01-07) PPCS PT G9086G		HIGH I CPM (PPCS PT	(01-09)	R- MR	35 /HR		36 HR	
N	FOTAL UMBER UNNING	AVG MET	ADV MET	AVG MET	ADV MET	AVG MET	ADV MET	AVG MET	ADV MET	
	1	**	1.1E+4	6.5E+1	*	**	7.9E+2	1.27E+2	7.9E-1	
-	2	8.8E+5	5.5E+3	3.25E+1	*	**	3.9E+2	6.35E+1	4 0E-1	GENERAL
	3	5.9E+5	3.7E+3	2 16E+1	* *	**	2.6E+2	4.2E+1	2.6E-1	EMERG.
	. 4	_4.4E+5 _	2.7E+3	1.62E+1 .	*	**	2.0E+2	3.175E+1	2.0E-1	
<u></u>										
	1	[·] 8 8E+4	5.5E+2	3.0E+0	*	6 3E+3	3.9E+1	6.3E+0	*	
	2	4.4E+4	2.7E+2	1.5E+0	*	3.1E+3	1.9E+1	3.1E+0	*	SITE
	3	2.9E+4	1.8E+2	1.0E+0	*	2.1E+3	1.3E+1	2.1E+0	*	EMERG.
	4	2.2E+4	1.3E+2	*	*	1.5E+3	9.5E+0	1.5E+0	*	
<u></u>										
	1	1.0E+3	6 2E+0	_ * 、	- * _	7.0E+1	*	. *	*	
	2	5.0E+2	3.1E+0	*、	* *	-3.5E+1	*	*	* *.	ALERT
	3	3.3E+2	2 0E+0	*	*	2.3E+1	*	*	*	
	4	2.5E+2	1.5E+0	*	*	1.75E+1	*	*	*	
<u></u>						-				
	1	1.0E+2	6.2E-1	*	*	7.0E+0	*	*	*	
					1 1					

- ·-				-			-			
	1	1.0E+2	6.2E-1	*	*	7.0E+0	*	*	*	
	2	5 0E+1	3.1E-1	*	*	.3.5E+0	*	*	*	UNUSUAL
	3	3.3E+1	2.0E-1	*	*	2.3E+0	*	*	*	EVENT
	4	2.5E+1	1.5E-1	*	*	1.7E+0	*	*	*	

Offscale Low

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** Offscale High (Confirmation Only)

Table 2-1 EPIP-AD-02 Rev. AE

CHART A(2) GASEOUS EFFLUENT ACTION LEVELS continued

AUX BUILDING VENT RELEASES WITHOUT CORE DAMAGE

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- <u>NOTE</u>: Use adverse meteorology conditions (ADV MET) only when, 10m and 60m wind speed < 5mph <u>AND</u> Delta-T > +2.4 degrees F or Sigma Theta is < 3.01 degrees. All other cases are average meteorology (AVG MET).
- NOTE: R-13 and R-14 are expected to be off scale high during all events on this page.

SV & SFP FANS	· · · · · · · · · · · · · · · · · · ·	AUX BLDG SPING MONITORS				
TOTAL NUMBER RUNNING	СРМ	RANGE (01-07) I G9086G	CPM	RANGE (01-09) CG9088G		
	AVG MET	ADV MET	AVG MET	ADV MET		
1	**	9.4E+4	1.6E+4	1.0E+2		
2	**	4.7E+4	8.0E+3	5.0E+1	GENERAL	
3	**	3.1E+4	5.3E+3	3.3E+1	EMERG.	
4	**	2.3E+4	4.0E+3	2.5+1		
······································				· · · · · · · · · · · · · · · · · · ·		
1	7.5E+5	4.6E+3	8.0E+2	5.0E+0		

	1	7.3E+3	4.06+3	0.01.72	5.0210		
-	2	3.7E+5	2.3E+3	4.0E+2	2.5E+0	SITE	
	3	2.5E+5	1.5+3	2.6E+2	1.6E+0	EMERG.	
	4	1.8E+5	1.1E+3	2.0E+2	1.2E+0		

SV & SFP	AUX BLDG SP	ING MONITORS	
FANS TOTAL NUMBER RUNNING	LOW RANGE Ci/cc (01-05) PPCS PT G9084G	MID RANGE CPM (01-07) PPCS PT 9086G	EMERG. CLASS.
1	**	8.6E+3	- ,
2	**	4.3E+3	ALERT
3	**	2.8E+3	
4	**	2.1E+3	

1	6.3E-2	8.6E+2	
2	3.1E-2	4.3E+2	UNUSUAL
3	2.1E-2	2.8E+2	EVENT
4	1.5E-2	2.1E+2	

** Offscale High (Confirmation Only)

Table 2-1 EPIP-AD-02 Rev. AE

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CHART A(2) GASEOUS EFFLUENT ACTION LEVELS continued

3. STEAM LINE RELEASE <u>WITH SIGNIFICANT CORE DAMAGE</u>

Instrument readings assuming radioactive steam <u>is releasing at a total of 1.4E+5 pounds per hour</u> to the atmosphere <u>AND</u> Containment High Range Radiation Monitor 42599 (R-40) or 42600 (R-41) reads 1000 R/hr within one-half hour of the accident.

	-	'A'' ''B'' ne Monitors Steam Line Monitors		Emergency Classification	
R-15 (cpm)	R-31 (mR/hr)	R-32 (R/hr)	R-33 (mR/hr)	R-34 (R/hr)	
**	1.3E+3	1.3E+0	1.3E+03	1.3E+0	General Emergency
**	6.0E+1		6.0E+1		Site Emergency
**	1.5E-1		1:5E-1		Alert
2.0E+05					Unusual Event

****** Offscale High (Confirmation Only)

4. SHIELD BUILDING STACK RELEASE

Instrument readings assuming SBV System is operating in the recirculation mode.

I	Reactor Bldg. Disch	Emergency Classification	
((PT G9077G)2-07) ange (cpm)	PPCS PT G9079G (02-09) High Range (cpm)	
1.	3E+05	1.5E+2	General Emergency
6.	7E+03	7.0E+0	Site Emergency
1	.5E+1		Alert
· ~ ~ ·		ατομορίας το του το ποιουργού ματά το το ₩₩₩ 	Unusual Event

Table 2-1 EPIP-AD-02 Rev. AE

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CHART B FUEL DAMAGE INDICATION

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KNPP INDICATION	EMERGENCY CLASSIFICATION CRITERIA	CLASSIFICATION
 CET > 1,200 Degrees for greater than 15 minutes, <u>OR</u> R40 or R41 > 1,000 r/hr, <u>OR</u> SACRG-1, Severe Accident Control Room Guideline Initial Response has been implemented. 	Plant conditions exist that make the release of large amounts of radioactivity in a short time period possible.	GENERAL EMERGENCY
(Major damage is more than one spent fuel element damaged.)	Major damage to spent fuel in containment or auxiliary building.	SITE EMERGENCY
 <u>Fuel Handling accident in Containment</u> a. Alarm on R-11 <u>OR</u> R-12, <u>AND</u> b. Dropped spent fuel assembly, <u>OR</u> c. Report of a large object dropped in Rx core, OB 		
 <u>OR</u> (2) <u>Fuel Handling Accident in Auxiliary Bldg.</u> a. Alarm on R-13 or R-14, <u>AND</u> b. A large object dropped in spent fuel pool, <u>OR</u> c. A dropped spent fuel assembly, <u>OR</u> d. A loss of water level below spent fuel. 		
(1) R-9 indication is offscale high, AND	Severe loss of fuel cladding	ALERT
(2) Laboratory analysis confirms RCS activity levels comparable to USAR Appendix D, Table D.4-1.	a. Very high coolant activity sample	a nangar ananganyakan ini kananyang sanan asar
	b. Failed fuel monitor indicates greater than 1% fuel failures within 30 minutes or 5% total fuel failures.	
 Fuel Handling Accident in Containment A confirming report, <u>AND</u> Alarm on R-11 <u>OR</u> R-12, 	Fuel damage accident with release of radioactivity to containment or auxiliary building.	ALERT
OR (2) <u>Fuel Handling Accident in Auxiliary Bldg.</u> a. A confirming report, <u>AND</u> b. Alarm on R-13 <u>OR</u> R-14.		
(1) With RCS Temperature > 500° F,		
a > 0.2 μCi/gram DOSE Equivalent I-131 for 48 hours, <u>OR</u>	High reactor coolant activity	UNUSUAL EVENT
b. Exceeding T.S. Figure 3.1-3 for Dose Equivalent I-131, <u>OR</u>		•
c. > 91/ \overline{E} μ Ci/cc		
As determined by SP-37-065 (from T.S. 3.1.c)		
 R-9 is greater than 5.0 R/hr, <u>AND</u> Verified by RCS chemistry sample analysis. 	Failed fuel monitor indicates greater than 0.1% equivalent fuel failures within 30 minutes.	UNUSUAL EVENT

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CHART C. PRIMARY LEAK TO LOCA

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- X NOTE: This chart does not apply when leakage from the Reactor Coolant System is caused by a Steam Generator tube rupture. · · · · · ·

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	KNPP INDICATION	EMERGENCY CLASSIFICATION CRITERIA	CLASSIFICATION
	LOCA is verified per IPEOP E-1, "Loss of Reactor or Secondary Coolant," <u>AND</u>	 Loss of coolant accident, <u>AND</u> Initial or subsequent failure of 	GENERAL EMERGENCY
(2)	 ECCS failure is indicated by: a. SI and RHR pumps not running, <u>OR</u> b. Verification of no flow to the reactor vessel, <u>OR</u> c. Core exit thermocouples indicate greater than 1,200°F, <u>AND</u> Failure or potential failure of containment is indicated by: a. Physical evidence of containment structure damage, <u>OR</u> b. Containment Pressure is > 23 PSIG and loss of all containment fan coil units and both trains of ICS, <u>OR</u> c. Containment hydrogen monitor indicates ≥ 10% hydrogen concentration, <u>OR</u> 	 (2) Initial or subsequent failure of ECCS, <u>AND</u> (3) Containment failure or potential failure exists (loss of 2 of 3 fission product barriers with a potential loss of 3rd barrier). 	
(1)	d. Containment pressure exceeds 46 psig. SI System is activated and RCS leakage exceeds charging system capacity as verified by Control Room indications or IPEOPs.	Reactor Coolant System leakage greater than make-up pump capacity.	SITE EMERGENCY
(1)		Reactor Coolant System leak rate greater than 50 GPM.	ALERT
(1)		Exceeding Reactor Coolant System leak rate, Technical Specifications, requiring reactor shutdown.	UNUSUAL EVENT

CHART D PRIMARY TO SECONDARY LEAK

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	KNPP INDICATION	EMERGENCY CLASSIFICATION CRITERIA	CLASSIFICATION	
(1)	Entry into IPEOP E-3, "Steam Generator Tube Rupture," is expected or has occurred, <u>AND</u>	Rapid failure of steam generator tubes with loss of off-site power.	SITE EMERGENCY	
(2)	Primary-to-secondary flow > 800 GPM OR RCS pressure decreasing uncontrollably, <u>AND</u>	÷		
(3)	All three transformers Main Aux., Reserve Aux., and Tertiary Aux., are de-energized.			
(1)	Entry into IPEOP E-3, "Steam Generator Tube Rupture," is expected or has occurred, <u>AND</u>	Rapid gross failure of one steam generator tube with loss of off-site power.	ALERT	
(2)	Primary-to-secondary leak rate > 400 GPM, AND			
(3)	All three transformers: Main Aux., Reserve Aux., and Tertiary Aux., are de-energized.	-		
(1)	Entry into IPEOP E-3, "Steam Generator Tube Rupture," is expected or has occurred, <u>AND</u>	Rapid failure of multiple steam generator tubes.	ALERT	
(2)	Primary-to-secondary leak rate greater than 800 GPM indicated by SI flow <u>OR</u> RWST level change.			
(1)	Primary-to-secondary leakage > 150 gallons per day for more than 4 hours (TS 3.1.d.2).	Exceeding Primary-to-Secondary leak rate Technical Specification.	UNUSUAL EVENT	
incr	not delay declaration if leakage suddenly eases above 150 gallons per day <u>AND</u> plant down actions are initiated.)	ι		

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,	KNPP INDICATION	EMERGENCY CLASSIFICATION CRITERIA	CLASSIFICATION
(1)	RCS is ≥ 350°F, <u>AND</u>	Failure of off-site and on-site AC power, <u>AND</u>	GENERAL EMERGENCY
(2)	Buses 1 through 6 are de-energized including the D/G supplies to buses 5 and 6, <u>AND</u>	Total loss of auxiliary feedwater makeup capability for greater than 2 hours. (Loss	•, •
	Loss of the turbine driven AFW pump, <u>AND</u>	of power plus loss of all AFW would lead to clad failure and potential containment failure.)	-
	Conditions exist for greater than 2 hours.		,
(1)	Buses 1 through 6 are de-energized including the D/G supplies to buses 5 and 6 for longer than 15 minutes. (Does not apply when core is unloaded or cavity is flooded with internals removed.)	Loss of off-site power, <u>AND</u> Loss of on-site AC power (for more than 15 minutes).	SITE EMERGENCY
(1)	Low voltage lockout <u>OR</u> de-energized condition on all safeguards DC distribution cabinets for greater than 15 minutes. a. BRA 102 and BRB 102, OR	Loss of all vital on-site DC power (for more than 15 minutes).	SITE EMERGENCY
	a. BRA 102 and BRB 102, <u>OR</u> b. BRA 104 and BRB 104, <u>OR</u>		
	c. BRA 102 and BRB 104, <u>OR</u>	-	
	d. BRB 102 and BRA 104		
(Do floc	es not apply when core is unloaded or cavity is ded with internals removed.)	- nga da saya kata kata kata kata kata kata da sa da sa da sa	<u></u>
(1)	Low voltage lockout <u>OR</u> de-energized condition on all safeguards DC distribution cabinets for less than 15 minutes.	Loss of all vital on-site DC power (for less than 15 minutes).	ALERT
	a. BRA 102 and BRB 102, <u>OR</u>	minutos).	
	b. BRA 104 and BRB 104, <u>OR</u>		
	c. BRA 102 and BRB 104, <u>OR</u>		
	d. BRB 102 and BRA 104		
	es not apply when core is unloaded or cavity is oded with internals removed.)	-	
(1)	Buses 1 through 6 are de-energized, AND	Loss of off-site power, AND	ALERT
(2)	The D/G supplies to buses 5 and 6 do not respond as designed. AC power is restored to bus 5 or 6 within 15 minutes. (Does not apply when core is unloaded or cavity is flooded with internals removed.)	Loss of on-site AC power (for less than 15 minutes.)	
(1)	With the Reactor Coolant System above cold shutdown condition:	Loss of off-site power, <u>OR</u>	UNUSUAL EVENT
	a. All three transformers: Main Aux., Reserve – Aux., and Tertiary are de-energized, <u>OR</u>	Loss of on-site power capability.	
	 Both D/Gs unavailable (unable to supply bus 5 or 6 by any means). 	-	
	Core is unloaded or reactor cavity is flooded with internals removed, <u>AND</u>	Loss of off-site power, AND	UNUSUAL EVENT
(2)	Buses 1 through 6 are de-energized including the D/G supplies to buses 5 and 6 for longer than 15 minutes.	Loss of on-site AC power (for more than 15 minutes).	

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CHART F ENGINEERED SAFETY FEATURE ANOMALY

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KNPP INDICATION	EMERGENCY CLASSIFICATION CRITERIA	CLASSIFICATION
 RCS > 200°F with a loss of cooling capability or inventory control: 	Complete loss of any function needed when $RCS > 200^{\circ}F$.	SITE EMERGENCY
a. Loss of negative reactivity control, <u>OR</u>	1 · · · ·	
 Steam dump, S/G safeties, and power operating reliefs not operable (> 350°F), 	E.	
OR		
c. Inability to feed S/Gs (No AFW or Main Feedwater/Condensate Flow), <u>OR</u>		
d. Loss of RCS inventory control, OR		
e. Loss of both trains of RHR, AND		
the inability to sustain either natural <u>OR</u> forced circulation with the steam generators (≤ 350°F).		
(A Site Emergency should be declared upon the initiation of bleed and feed per FR H.1, "Response to Loss of Secondary Heat Sink.")	- - 1	د ،
(Apply this criteria when the RCS is $\leq 200^{\circ}$ F.)	Complete loss of any function needed when RCS $\leq 200^{\circ}$ F.	ALERT
(1) Loss of both trains of RHR		
(Does not apply when core is unloaded <u>OR</u> cavity is flooded with internals removed.)		
 Failure of both Rx trip breakers to open upon receipt of a valid signal. Applies even if IPEOP FR S.1 is not entered. 	Failure of the Reactor Protection System to initiate and complete a reactor trip which brings the reactor subcritical.	ALERT
 Loss of ESF function, required support function or required Tech Spec instruments <u>OR</u> Exceeding Tech Spec Safety Limits, 	Inability to reach required shutdown within Tech Spec limits	UNUSUAL EVENT
AND	• • •	у - ли
(2) upon discovery, inability or failure to take required shutdown or mode change actions within the required time.		
(Total loss of AFW system when required (FR-H.1 implemented) should be declared a UE regardless of Tech Spec action compliance.)		

CHART G

	KNPP INDICATION	EMERGENCY CLASSIFICATION CRITERIA	CLASSIFICATION
(1) (2)	alarms, and sequence of events recorder for greater than 15 minutes, <u>AND</u>	Most or all alarms (annunciators) lost and a plant transient initiated or in progress.	SITE EMERGENCY
(1)	Total loss of Annunciator System, computer alarms, and sequence of events recorder. (Not applicable when plant is at or below cold shutdown.)	Most or all alarms (annunciators) lost.	ALERT
(1)	instrumentation. An Unusual Event should <u>NOT</u> be declared for a non-emergency Tech Spec backdown, when the affected parameter remains monitorable.	Indications or alarms on process or effluent parameters not functional in control room to an extent requiring plant shutdown or other significant loss of assessment capability.	UNUSUAL EVENT
(No shu	ot applicable when plant is at or below cold itdown.)		

CHART[•]H (DELETED)

Table 2-1 EPIP-AD-02 Rev. AE

CHART I SECONDARY SIDE ANOMALY

-	KNPP INDICATION	EMERGENCY CLASSIFICATION	CLASSIFICATION
(2)	 Main steam line break that results in a SI actuation, <u>AND</u> a. R-15 or R-19 reads offscale high with confirmation by chemistry analysis, <u>OR</u> b. Primary-to-secondary leakage > 50 gpm, <u>AND</u> a. R-9 or CNTMT high range rad monitors (42599, 42600) indicate > 10 R/hr, <u>OR</u> 	Steam line break, <u>AND</u> Primary-to-secondary leak > 50 GPM, <u>AND</u> Indication of Fuel Damage.	SITE EMERGENCY
(1)	 b. CNTMT hydrogen monitor indicates > 1% hydrogen concentration. Main steam line break that results in a SI 	Steam line break with	ALERT
	actuation, <u>AND</u> a. R-15 <u>OR</u> R-19 reads a factor of 1000 above normal, <u>OR</u>	significant (greater than 10 GPM) primary-to-secondary leakage.	
·	b. Primary-to-secondary leakage > 10 gpm.	(Applies even if events occur in opposite steam generators.)	
(1)	Turbine trip and observation of penetration of casing.	Turbine rotating component failure causing rapid plant shutdown.	UNUSUAL EVENT
(1)	The uncontrolled depressurization of the secondary system that results in an SI actuation.	Rapid depressurization of the secondary side.	UNUSUAL EVENT

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CHART J MISCELLANEOUS ABNORMAL PLANT CONDITIONS

KNPP INDICATION	EMERGENCY CLASSIFICATION CRITERIA	CLASSIFICATION
 (1) Containment boundary failure or potential failure: a. Containment pressure > 46 psig, <u>OR</u> 	Other plant conditions that make a release of large amounts of radioactivity in a short time period possible; e.g., any core melt situation.	GENERAL EMERGENCY
 b. Loss of all containment fan coil units and both trains of ICS, <u>OR</u> c. Containment hydrogen monitor ≥ 10% hydrogen concentration, <u>AND</u> 	Examples: - Failure of main FW and AFW systems for greater than 30 minutes without Safety Injection and Residual Heat Removal flow. Plus a containment failure is	
 (2) Loss of core cooling capability: a. Loss of SI and RHR flow, <u>AND</u> (3) Failure of shutdown system when required: 	 imminent. Transient requiring the operation of shutdown systems with a failure of these shutdown systems. In addition, failure of SI and DUD 	
 a. Entry into IPEOP FR-S.1, "Response to Nuclear Power Generation/ATWS," <u>OR</u> b. Loss of AFW for greater than 30 minutes with loss of main FW and condensate. 	RHR and containment failure is imminent.	CITE
(1) Evacuation of Control Room (E-O-06 event).	Evacuation of control room and control of shutdown systems required from local stations.	SITE EMERGENCY
(1) Conditions that warrant increased awareness on part of the plant staff will be evaluated by the Plant Manager or his designate. This is to determine if conditions are applicable for activating the E.P.	Other plant conditions that warrant increased awareness on the part of plant staff or state and/or local authorities.	UNUSUAL EVENT
Example: Loss of AFW system when required, validated upon implementation of FR H.1 "Response to Loss of Secondary Heat Sink."		

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CHART K FIRE AND FIRE PROTECTION

e 1-	KNPP INDICATION	EMERGENCY CLASSIFICATION CRITERIA	CLASSIFICATION
(1)	A fire within the Auxiliary Building, Technical Support Center, safeguards alley, D/G rooms, Battery Rooms, or screenhouse that defeats redundant safety trains of ESF equipment causing the required ESF system to be inoperable.	A fire compromising the functions of safety systems.	SITE EMERGENCY
(1)	A fire within the Auxiliary Building, Technical Support Center, safeguards alley, D/G rooms, Battery Rooms, or screenhouse that lasts more than 10 minutes <u>OR</u> causes a single train of required ESF equipment to be inoperable.	A fire potentially affecting safety systems.	ALERT
(1)	Any fire within the protected area lasting more than 10 minutes.	A fire within the plant lasting more than 10 minutes.	UNUSUAL EVENT

CHART L

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CHART M EARTHQUAKE

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-	KNPP INDICATION	EMERGENCY CLASSIFICATION CRITERIA	CLASSIFICATION
(1)	Activation of seismic recorder with TRIGGER, OBE, and DBE lights lit in relay room on RR159, <u>AND</u>	An earthquake greater than Design Basis Earthquake (DBE).	' SITE EMERGENCY -
(2)	Verification of a seismic event by physical experience or from U. of W Milwaukee Seismic Center.	-	
(1)	Activation of seismic recorder with TRIGGER, and OBE lights lit in relay room on RR159, <u>AND</u>	An earthquake greater than Operational Basis Earthquake (OBE).	ALERT
(2)	Verification of a seismic event by physical experience or from U. of W Milwaukee Seismic Center.		
(1)	Activation of seismic recorder with TRIGGER light lit in relay room on RR159, <u>OR</u>	An earthquake felt in plant or detected on station seismic instrumentation.	UNUSUAL EVENT
(2)	An earthquake felt in the Plant*.		
(*Sl dan Seis	nould be confirmed by evidence of physical age or verification from University of Wisconsin mic Center.)		

NOTE: 1.) Telephone numbers for U of W - Milwaukee Seismic Center are in the KPB Emergency Telephone Directory, ETD 02.

2.) The Point Beach Seismic Monitor may be used if the KNPP Monitor is out of service.

×	ŕ.	KNPP INDICATION	EMERGENCY CLASSIFICATION CRITERIA	CLASSIFICATION
	(1)	Winds in excess of 100 mph for greater than 1 hour, <u>AND</u>	Sustained winds in excess of design levels with plant not in cold shutdown.	SITE EMERGENCY
	(2)_	Plant above cold shutdown condition.		
	(1)	A tornado which strikes the facility, AND	Any tornado striking facility.	ALERT
	(2)	Causes damage to render a single train of required ESF equipment to be inoperable.		
	(1)	A tornado observed on-site causing significant damage to the facility.	Any tornado on-site.	UNUSUAL EVENT

CHART N HIGH WINDS OR TORNADO

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CHART O FLOOD, LOW WATER, OR SEICHE

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r 	and a second	- ! - "		EMERGENCY	
	KNPP	Ň DIČATIO	N	CLASSIFICATION CRITERIA	CLASSIFICATION
N	EBAY LEV ed for > 15 m			Flood, low water, or seiche near design	ALERT
0 PUMPS	1 PUMP	2 PUMPS	CORRESPOND TO LAKE LEVEL	levels.	
NOTE 3	NOTE 1	≥94% *	≥ 588 ft.		
< 50% *	NOTE 5	NOTE 5	< 568.5 ft.		
OR Deep wa	ter Wave ≥ 2	2.5 ft.	-		
11	EBAY LEV ed for > 15 n			50-year flood, low water level or seiche	UNUSUAL
0 PUMPS	1 PUMP	2 PUMPS	CORRESPOND TO LAKE LEVEL		EVENT
NOTE 2	≥98% *	≥88% *	≥ 586 ft.		
< 53.1% *	< 46.9% * NOTE 4	NOTE 5	< 569.5 ft.		
<u>OR</u> Deep w U.S. Coast G			confirmed by the		

NOTE 1: Above the bottom of bar No. 1 painted on the south wall of the forebay.

NOTE 2: Above the bottom of bar No. 2 painted on the south wall of the forebay.

NOTE 3: Above the bottom of bar No. 3 painted on the south wall of the forebay.

- NOTE 4: Applies to an uncontrollable decrease (cannot be restored by operator action. If the water box inlet valves are throttled, use other means to determine lake level per E-CW-04, "Loss of Circulating Water.")
- <u>NOTE 5</u>: The corresponding forebay level for the associated lake level is below the circulating water pump trip setpoint of 42%. Therefore, this criterion will not be reached.
- * Computer point for forebay level is L09075A and should be used because of its greater accuracy. Plant elevations and lake elevations are referenced to International Great Lakes Datum (IGLD), 1955

(IGLD 1955 = IGLD 1985 - 0.7 FEET)

CHART P EXTERNAL EVENTS AND CHEMICAL SPILLS

تع ه • • و ع	KNPP INDICATION	EMERGENCY CLASSIFICATION CRITERIA	CLASSIFICATION
(1)	An aircraft crash into plant buildings which causes a complete loss of an ESF function.	Aircraft crash affecting vital structures by impact <u>OR</u> fire.	ŚITE EMERGENCY
(1)	A missile strikes plant buildings, <u>OR</u>	Severe damage to safe shutdown equipment from missiles or explosion.	SITE EMERGENCY
(2)	An explosion occurs within a plant building, which causes a complete loss of an ESF function.	-	
(1)	Release of flammable or toxic gas from a ruptured container, which causes or is likely to cause evacuation of stations necessary to control shutdown systems, <u>AND</u>	Uncontrolled release of toxic or flammable gas is confirmed within vital area.	SITE EMERGENCY
(2)	Portable monitors indicate toxic or explosive concentrations of the gas at life threatening levels in those vital areas.	-	
(1)	An aircraft crashes into plant buildings <u>AND</u> causes a single train of required ESF equipment to be inoperable.	Aircraft crash on facility.	ALERT
(1)	A missile strikes the facility <u>AND</u> causes a single train of required ESF equipment to be inoperable.	Missile impact from whatever – source on facility.	ALERT
(1)	Release of toxic or flammable gas at life threatening levels from a ruptured container enter the protected area <u>AND</u> impacts safe operation of the plant.	Uncontrolled release of toxic or flammable gas is confirmed within the protected area.	ALERT
(1)	Self-explanatory.	Known explosion damage to facility affecting plant operation.	ALERT
(1)	An aircraft crash within the site boundary, <u>OR</u>	Aircraft crash on-site or unusual aircraft activity over facility.	UNUSUAL EVENT
(2)	Unusual aircraft activity such as erratic flying, dropped unidentified object, or other hostile acts, which threaten the plant or plant personnel. (Any other persistent aircraft activity for which identification attempts through the FAA or other agencies have been unsuccessful.)		
(1)	Release of toxic or flammable gas from a ruptured tank/truck on site, <u>AND</u>	Uncontrolled release of toxic or flammable gas is confirmed on site.	UNUSUAL EVENT
(2)	Portable monitors indicate toxic or explosive concentrations at life threatening levels of the gas near the spill area.		

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CHART Q SECURITY CONTINGENCY

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, " " " 	KNPP INDICATION	EMERGENCY CLASSIFICATION CRITERIA	CLASSIFICATION	•
(1) [.]	Physical attack on the plant that has resulted in , unauthorized personnel occupying the control room or any other vital areas as described in the Security Plan.	Loss of physical control of the plant.	GENERAL EMERGENCY	
(1)	Physical attack on the plant involving imminent occupancy of the control room, auxiliary shutdown panels, or other vital areas as defined by the Security Plan.	Imminent loss of physical control of the plant.	SITE EMERGENCY	
(1)	Security safeguards contingency event that results in a hostile force entering the protected area of the plant, but not gaining control over shutdown capability or of any vital areas as defined in the Security Plan, <u>OR</u>	Ongoing security compromise.	ALERT	
(2)	Security safeguards contingency event that results in a site specific HI level CREDIBLE threat as defined in the Security Plan.			
(1)	Security safeguards contingency event that results in a site specific LO level CREDIBLE threat as defined in the Security Plan, <u>OR</u>	Security threat or attempted entry or attempted sabotage.	UNUSUAL EVENT	
(2)	Security safeguards contingency event that results in a Bomb threat accompanied by interception of bomb materials, <u>OR</u>			
(3)	Security safeguards contingency event that results in an attempted entry into the protected area of the plant by a hostile force, <u>OR</u>			
(4)	Security safeguards contingency event that results in undetonated bomb found within the protected area.			

NOTE: Security staff will NOT act as notifier during security events. Utilize Control Room staff for notifications.

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	Kewa	unee Nuclear Pov	ver Plant		ional Support Facili	ty Operations	
میشر به میر موجده	Emergenc	y Plan Implementi	ng Procedure	Date No	OV 26 2002	Page 1 of 7	2.793 / Mi 2.793 / Mi
	Reviewed By	Dave Seebart		Approved By	W. L. Yarosz		
-	Nuclear Safety Related	□ Yes ☑ No	PORC Review Required	☐ Yes ☑ No	SRO Approval Of Temporary Changes Required	☐ Yes ☑ No	•••

1.0 Purpose

This procedure provides instruction for the Operational Support Facility (OSF) Staff when 1.1 responding to an Alert, Site Emergency, or General Emergency.

General Notes 2.0

2.1 None

Precautions and Limitations 3.0

- Ensure accountability of personnel and OSF Staff reporting to the OSF is maintained 3.1 throughout the incident (See "Personnel Assembly and Accountability," EPIP-SEC-03) via the Technical Support Center (TSC) Area Accountability Coordinator.
- A radiation survey of designated OSF assembly area or use of a portable radiation monitoring 3.2 instrument for verification of habitability will be performed per "TSC and OSF Activation Checklist," Form EPIPF-TSC-02-01.
- If it becomes necessary to evacuate the designated OSF assembly area, then a minimum staff 3.3 will be maintained in the lower TSC. Additional OSF support personnel will be evacuated per "Personnel Evacuation," EPIP-SEC-05.
- If it becomes necessary to evacuate or relocate the TSC and the OSF, then use the guidance 3.4 in Section 5.5 to assist in relocating the personnel and functionality of the OSF. -----

Initial Conditions 4.0

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

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5.0 Procedure

- 5.1 Fire Team and Repair Team Accountability
 - 5.1.1 Fire Team
 - a. <u>IF</u> you have not been notified that a fire exists, <u>THEN</u> proceed to your assigned Turn Out Gear location.
 - Report the team member names to the SM or Event Operations Director (EOD).
 - Upon completion of initial accountability, if the Fire Team is not required, report to Accountability Location as follows:
 - 1. Admin. Team to ATF-1 Accountability Location
 - 2. Annex Team to Warehouse Accountability Location
 - b. IF you have been notified that a fire exists, THEN:
 - Upon hearing the plant siren, assemble and account at your Turn Out Gear Lockers (Admin. and Annex).
 - If time permits, one team member should locate the nearest Gai-tronics, telephone, or portable radio, and report the names and locations of the fire team members to the SM or EOD.
 - Respond to the fire keeping the SM or EOD informed of your actions.
 - c. During subsequent soundings of the plant alarm:
 - IF you are in the field investigating or fighting a fire, <u>THEN</u> do <u>NOT</u> report to an Accountability Location.
 - IF time permits, <u>THEN</u> one team member should locate the nearest Gai-tronics, telephone, or portable radio and report the names and locations of the team members to the SM or EOD.
 - <u>IF</u> time does not permit, <u>THEN</u> proceed with your emergency duty regardless of accountability concerns.

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5.1.2 ERO Repair Teams Bio consolition and a second statements of the second statement of the second s

- a. <u>IF</u> you have not been contacted by the SM, Support Activity Director (SAD), or a Maintenance Supervisor in regards to performing an emergency duty, <u>THEN</u> proceed to the OSF upon hearing the plant siren.
- b. <u>IF</u> you have been contacted by the SM, SAD, or Maintenance Supervisor and have been instructed to (1) perform an emergency duty, (2) report to the OSF, or (3) report to another area in response to the emergency (e.g., obtain equipment or tools), <u>THEN</u>:
 - Upon hearing the plant siren, locate the nearest Gai-tronics or telephone and contact the SM, SAD, or Maintenance Supervisor (whomever contacted you) to report your location.
 - IF you are continuing on to another area, <u>THEN</u> inform this person.
 - Continue with your emergency duty as instructed.
- c. During subsequent soundings of the plant alarm, if you are in the field performing an emergency duty:
 - Do <u>NOT</u> report to an Accountability Area.

<u>Note</u>

<u>IF</u> you are actually required to leave the area, <u>THEN</u> the OSF Coordinator will inform you.

• Locate the nearest Gai-tronics or telephone and report your location to the OSF Coordinator.

5.2 OSF Coordinator

- 5.2.1 WHEN notified that an Emergency has been declared:
 - a. Report to the OSF.
 - b. <u>IF</u> an OSF Coordinator has been designated, until released, <u>THEN</u> assist the designated OSF Coordinator.
 - c. <u>IF an OSF Coordinator has NOT</u> been designated, <u>THEN</u> notify the SAD of your intent to assume the responsibilities of the OSF Coordinator and continue implementation of this procedure.
 - 5.2.2 Notify the SAD of your assumption of the responsibilities of the OSF Coordinator.
 - 5.2.3 Obtain the ERO Response binder from the "TSC Material Locker."
- 5.2.4 Verify an OSF Support Person is available to implement Step 5.3 of this procedure or assign another OSF staff member to this task.

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- 5.2.5 Direct an OSF Assembly Area Staff Member to:
 - a. Develop a list of OSF personnel resources by name and emergency duty position.
 - b. If required, serve as Accountability Coordinator to maintain personnel accountability.
 - c. Relay briefings during the course of the event.
- 5.2.6 Notify additional support personnel as needed, using the telephone numbers listed in the KPB Emergency Telephone Directory.
- 5.2.7 Obtain and maintain knowledge of "work in progress" and "work to be performed" upon arrival at the OSF and throughout the event.

<u>Note</u>

Both the OSF and the TSC "High Priority Work" status boards must be in unison.

- a. <u>Post</u> the jobs actually in progress with the priority (No. 1-7) assigned by the ED on the "High Priority Work" status board.
- b. <u>Post</u> the jobs awaiting team assignment on the "Lower Priority Work" status board.
- 5.2.8 Provide updates to the OSF Support Person, SAD, and TSC Data Coordinator as needed, to maintain the "High Priority" and "Lower Priority" status boards current.
- 5.2.9 Brief the OSF Staff periodically on priority and pending work.
- 5.2.10 Ensure an OSF Event Log of all significant events and actions is maintained. Including as a minimum:
 - a. Date

b. Time

- c. Significant Event/Action
- d. Name of person information was received from or sent to
- e. Initials of person making log entry
- 5.2.11 Assist the SAD as required for evaluation of equipment and material necessary to support the emergency response organization.
- 5.2.12 Assist the SAD in the review of work requests and the planning and scheduling of work as required.

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5.2.13 Implement emergency repair and modifications on plant equipment and systems as directed by the SAD in accordance with "Work Requests During an Emergency," EPIP-OSF-03-

- a. Ensure pre-job briefings are conducted using "Operational Support Facility Team Briefing," Form EPIPF-OSF-03-01.
- 5.2.14 Implement search and rescue operations as directed by the SAD in accordance with EPIP-OSF-04.
- 5.2.15 Provide manpower, equipment, and material necessary to support the emergency organization.
- 5.2.16 Support accountability of OSF staff members through the designated Accountability Coordinator in the TSC.
- 5.2.17 If appropriate, plan a shift relief for OSF Support Personnel per "Emergency Response Organization Shift Relief Guideline," EPIP-AD-05.
- 5.2.18 IF Final Conditions (Section 6.0) have <u>NOT</u> been met, <u>THEN</u> return to Step 5.2.7.
- 5.2.19 <u>WHEN</u> 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.
- 5.3 OSF Support Person
 - 5.3.1 WHEN notified that an Emergency has been declared:
 - a. Report to the OSF.
 - b. <u>IF</u> an OSF Support Person has been designated, until released, <u>THEN</u> assist the designated OSF Support Person.
 - c. <u>IF</u> an OSF Support Person has <u>NOT</u> been designated, <u>THEN</u> notify the OSF Coordinator of your intent to assume the responsibilities of the OSF Coordinator and continue implementation of this procedure.
 - 5.3.2 Ensure that copies of "Operational Support Facility Team Briefing," Form EPIP-OSF-03-01, are available.
 - 5.3.3 Maintain OSF Status Boards as directed by the OSF Coordinator.

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- 5.3.4 Maintain an "OSF Event Log" of significant events, announcements, and OSF Coordinator priorities.
- 5.3.5 Record incoming and outgoing ad hoc telephone messages on "Telephone Communications Log Sheet," Form EPIPF-EOF-04-02.
- 5.3.6 Inform the OSF Coordinator promptly of information received from maintenance teams in the field or other support organizations.
- 5.3.7 When requested, make document copies.

5.4 Operations Staff Support

5.4.1 Operations Staff reporting to the OSF may be needed to support the Control Room or the OSF. Priority should be given to the Control Room for the use of their time.

<u>Note</u>

The dispatch of Operations Personnel from the OSF must be coordinated between the EOD and the ED to prevent conflicting or redundant assignments. SROs in the OSF need to make sure that they do not compromise the decisions or priorities of the on shift Shift Manager.

- 5.4.2 Operations Staff in the OSF may be asked to provide support for:
 - a. Tag-out preparation.
 - b. System and component location information.
 - c. Work package preparation.
 - d. Direct assignment to maintenance repair teams.
- 5.5 <u>IF</u> it becomes necessary to relocate or evacuate the OSF/TSC, <u>THEN</u> the following guidance should be utilized to maintain the functionality of the OSF:
 - a. OSF Assembly Area personnel should be relocated with the guidance and direction of the Radiological Protection Director (RPD) and may be concurrent with the relocation of the Radiological Assessment Facility.
 - b. The OSF Coordinator should relocate with the OSF Assembly Area and establish and maintain communications with the Support Activities Director.
 - c. Team tracking and logging activities should be maintained and continued at the new OSF location in accordance with Section 5.2.

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.

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7.0 References	
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- 7.1 Kewaunee Nuclear Power Plant Emergency Plan
- 7.2 EPIP Appendix A-1, Communication System Description
- 7.3 EPIP-AD-05, Emergency Response Organization Shift Relief Guideline
- 7.4 EPIP-OSF-03, Work Requests During an Emergency
- 7.5 EPIP-OSF-04, Search and Rescue
- 7.6 EPIP-SEC-03, Personnel Assembly and Accountability
- 7.7 EPIP-SEC-05, Personnel Evacuation
- 7.8 EPIP-TSC-02, Technical Support Center Activation

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 <u>QA Records</u>

- OSF Event Log
- Telephone Communications Log Sheet, Form EPIPF-EOF-04-02
- Operational Support Facility Team Briefing, Form EPIPF-OSF-03-01
- 8.1.2 Non-QA Records

None

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1.0 Purpose

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1.1 This procedure provides instruction for establishing and maintaining personnel accountability within the Protected Area (PA) of the plant.

2.0 General Notes

- 2.1 When initial assembly and accountability are in progress, certain individuals (as designated in EPIP-AD-01, "Personnel Response to the Plant Emergency Siren") will be allowed to move in, out, and about the PA before initial accountability is complete.
- 2.2 Emergency Response Organization (ERO) staff shall report to their duty locations.
- 2.3 Visitors, Contractors, and non-ERO personnel on-site should assemble in the nearest designated Assembly Area.

2.4 Severe Weather

- 2.4.1 Several of the Assembly Areas are <u>NOT</u> appropriate for severe weather safety.
 - a. Warehouse Annex Lunchroom relocate to the locker room.
 - b. Administrative Training Facility (ATF) Lunchroom relocate to the ATF Basement.
 - c. Simulator Training Facility (STF) Lunchroom relocate to the Simulator Control Room away from the glass partition along the west wall close to the floor.
 - d. Classroom C Security Building relocate to the Security Building locker room.

<u>Note</u>

<u>IF</u> unable to relocate as stated above, personnel should relocate on lower levels of buildings in interior rooms away from all windows.

- 2.4.2 The following locations are adequate during severe weather:
 - a. Control Room (CR)
 - b. Radiation Protection Office (RPO)
 - c. Technical Support Center (TSC)

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3.0 Precautions and Limitations

- 3.1 Initial accountability starts from the site announcement (siren sounding/public address message) and needs to be completed within 30 minutes.
 - a. The SMS Emergency Accountability **Program will begin 2 minutes** after site announcement. This allows for personnel to exit areas that are not their normal emergency work area (i.e., Control Room).
 - b. The first report should be generated after 5 minutes.
 - c. After 10 minutes, print a report or review the computer screen every minute until the number of unaccounted for personnel plateaus.
 - d. When the number of unaccounted for personnel plateaus, accountability is complete.
 - 3.2 Allow <u>prompt</u> movement of ERO personnel into and out of the Protected Area when the Site Protection Director has determined there is no personnel hazard restricting such movement.
 - 3.3 Adhere to the radiation control policies and requirements outlined in EPIP-AD-11, "Emergency Radiation Controls," and EPIP-RET-02D, "Emergency Radiation Entry Controls and Implementation."
 - 3.4 Personnel who are in the Control Room when the Emergency Accountability Program is started are accounted for by the SMS.
 - 3.5 Security Force Members, Fire Brigade Members, NAOs, and dispatched Emergency Teams are exempt from the SMS Emergency Accountability Program. They will be accounted for as defined in EPIP-AD-01, Step 5.1.1.c.

4.0 Initial Conditions

4.1 Personnel assembly is required whenever the plant emergency siren is sounded. Accountability will be required upon assembly unless otherwise directed by the Shift Manager/Emergency Director.

5.0 Procedure

- 5.1 Site Protection Director (SPD) or Designee shall: -
 - 5.1.1 <u>IF</u> a designated Master Accountability Coordinator (MAC) is not available, <u>THEN</u> direct the Security Shift Captain to perform accountability functions.
 - 5.1.2 Contact the Emergency Director (ED) or Radiological Protection Director (RPD) to determine the location of any personnel hazards on-site or off-site and continue to monitor conditions.

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5.1.3 5.1.4	Security Building until the RPD deto Advise the MAC of all hazardous ar	eas and/or severe weather.	sonnel in the	
5.1.5	5.1.5 Advise on-site directors of hazardous areas or severe weather conditions.			
5.1.6	(OCA), sewage plant, exterior warel	nake a tour through the Owner Contro houses, exterior substation, and Met T STF or Security Building, or to leave	lower to	

- 5.1.7 Ensure attempts are made by any available means to contact all personnel who are unaccounted for.
- 5.1.8 <u>IF</u> attempts fail to locate personnel who are unaccounted for, <u>THEN</u> direct the Central Alarm Station (CAS) or Secondary Alarm Station (SAS) operator to run a computer report for that person(s).
- 5.1.9 Provide the Support Activities Director (SAD) and the RPD with information regarding all personnel who are unaccounted for based upon last known locations obtained from the computer report.
- 5.1.10 Keep the ED informed of the status of personnel accountability.

appropriate.

5.1.11 When initial accountability is complete, ensure the following message is announced over the Gai-tronics:

"Attention all personnel. Initial accountability is complete. Personnel may relocate to other areas but shall maintain accountability."

- 5.1.12 Maintain cognizance of all personnel outside the PA who remain on-site.
- 5.1.13 Continue to provide the MAC with updates on any location determined to be a personnel hazard including areas outside the PA.

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5.2 Master Accountability Coordinator (MAC) shall:

- 5.2.1 <u>WHEN</u> accountability is required:
 - a. Report to the Security Building.
 - b. IF a MAC has been designated and UNTIL they are released,
 - 1. If appropriate, plan a shift relief per EPIP-AD-05, "Emergency Response Organization Shift Relief Guideline."
 - 2. Help the designated MAC.
 - c. <u>IF</u> a MAC has <u>NOT</u> been designated, notify the Site Protection Director (SPD) of your intent to assume the responsibilities of the MAC and continue implementation of this procedure.
 - d. Assign an Accountability Coordinator to the South Security Building Visitor's Desk.
 - 1. Inform this Accountability Coordinator to complete Form EPIPF-SEC-03.01, "Emergency Accountability Log," for ERO members entering the Protected Area.
 - 2. Implement Step 5.3.8 of this procedure.
 - e. <u>IF</u> there is no Accountability Coordinator available for the Security Visitor's Desk, <u>THEN</u> assign a plant staff or security staff member to perform Step 5.2.1.d.
- 5.2.2 Contact Security to verify there is <u>NOT</u> a hard copy visitor list. If this list is available, pick up the KNPP Protected Area Visitor and Non-Designated Vehicle log (SIP 20.02-1) at the Registration Desk.
- 5.2.3 Contact each Accountability Coordinator by phone to confirm visitor log.

<u>Note</u>

CAS or SAS shall print the Emergency Report ten minutes after the Emergency Accountability Program has started.

- 5.2.4 IF you have not received the Emergency Report, <u>THEN</u> contact CAS or SAS to obtain it.
- 5.2.5 Should attempts fail to locate personnel who are unaccounted for, direct the CAS or SAS to run a computer report on that person.

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- 5.2.6 Review the Emergency Report of the second second
 - a. Contact the Control Room and strike any names from the list that have been positively accounted for (individual is in the Control Room or is accounted for on their "Emergency Accountability Log").
 - b. Contact the Technical Support Center (TSC) and strike any names from the list that have been positively accounted for (individual is in the TSC or is accounted for on their "Emergency Accountability Log").
 - c. Contact all names remaining on the list by any possible means.
- 5.2.7 <u>WHEN</u> all personnel have been contacted or reasonable attempts to contact have failed, record the names of individuals not accounted for and their last known location and provide this information to the SPD.
- 5.2.8 Contact the Accountability Areas outside the PA (per Table 1) to determine the number and location of personnel on-site but not within the Protected Area.
- 5.2.9 Report to the SPD the number and location of personnel on-site but outside the PA and obtain an update regarding personnel hazards and/or severe weather.
- 5.2.10 Provide Accountability Coordinators (AC) with information regarding personnel hazards and/or severe weather provided by the SPD and continue to do so on a periodic basis.
- 5.2.11 Brief the SPD on any change in accountability status or new problems (i.e., groups or individuals overdue in assembly areas).
- 5.2.12 If appropriate, plan a shift relief for the MAC per-EPIP-AD-05.
- 5.2.13 <u>WHEN</u> Final Conditions (Section 6.0) are met,
 - a. Return your work area to normal status and return emergency procedures, forms, etc. to there proper place.
 - b. Record any discrepancies to emergency supplies that need correction and report them to the SPD.
 - c. Collect all completed forms, notes, and other documentation and give them to the SPD.

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5.3 Accountability Coordinator (AC) shall:

- 5.3.1 <u>WHEN</u> accountability is required:
 - a. Report to your assigned assembly area.
 - b. <u>IF</u> an AC has <u>NOT</u> been designated, <u>THEN</u> notify a Facility Director or MAC of your intent to assume the responsibilities of the AC in the assembly area and continue implementation of this procedure.
 - c. IF an AC has been designated and UNTIL they are released,
 - 1. Help in facility activation.
 - 2. If appropriate, plan a shift relief per EPIP-AD-05.
 - 3. Help the designated AC.
- 5.3.2 Obtain Accountability packet located in the assembly areas in the following locations:
 - a. Control Room (CR) On the wall behind the Control Room Supervisor's desk.

<u>Note</u>

Make a list for the MAC of Fire Brigade Members, NAOs, and dispatched Emergency Teams that are accountability exempt.

- b. Technical Support Center (TSC) On the desk near the entrance door (No. 410).
- c. Radiation Protection Office (RPO) Next to the entrance door (No. 55).
- d. Administrative Training Facility (ATF) Lunchroom southwest corner, above the phone and Gai-tronics.
- e. Warehouse Annex Lunchroom west wall, above the phone and Gai-tronics.
- f. Security Building Room "C" on the wall by the phone and Gai-tronics.
- g. Site Training Facility (STF) Lunchroom on the southwest wall near the Gai-tronics.
- 5.3.3 Locate yourself near the SMS accountability card reader.

<u>Note</u>

Visitors have non-magnetic badges, so they should <u>NOT</u> swipe their key card in an accountability card reader. Log visitors and report their information to the MAC.

5.3.4 <u>WHEN</u> the Gai-tronics announcement is made that emergency accountability has been initiated, ensure that all badged personnel located in the area swipe their Security key card in the accountability reader and receive a green light.

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- 5.3.5 IF a Director or Supervisor notifies you of individuals who will <u>NOT</u> assemble, <u>THEN</u> record them as if they were leaving the facility per Step 5.3.8.
- 5.3.6 During accountability, demand quiet and cooperation. Maintain accountability of personnel assembled there.
- 5.3.7 <u>WHEN</u> provided by the MAC, inform personnel in your assembly area of information on hazardous areas.

<u>Note</u>

Only address the teams or individuals you logged out.

5.3.8 <u>WHEN</u> an individual elects to move to another area, log their departure on "Emergency Accountability Log," Form EPIPF-SEC-03-01, as follows:

<u>Note</u>

This includes visitors also.

- a. In the "Name" column: Enter the name of the individual leaving the area.
- b. In the "Card" column: Enter the individual's security card number.
- c. In the "Destination" column: Enter the location to which the individual is heading.

Acronym	Area						
	For Another Accountability Area						
CR	Control Room						
RPO	Radiation Protection Office						
TSC -	Technical Support Center						
WA	Warehouse Annex Lunchroom						
ATF	Administrative Training Facility Lunchroom						
	For Repair Team Activity						
LPA	Leaving the Protected Area						
PA	Outside the Buildings but inside the Protected Area						
ADMN	Administrative Buildings						
TURB Turbine Building							
AUX	Auxiliary Building						
CNTM	Containment Building						
WRHS	WRHS Warehouse or Shop Area						

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~~ 6 ·	.	d. In the "Departure Time" column: Enter the time the individual departed the area.
, ,	۹ ۱	e. In the "Return/Arrive Time" column: Enter the time the individual returns to the area or the time you are informed they arrive at another Assembly Area by the Accountability Coordinator in that area.
	5.3.9	IF an individual arrives in your area who did not log out of your area and is not immediately returning to the area he checked out of, <u>THEN</u> contact the area he departed and notify them of the individual's arrival time and intent to stay.
	5.3.10	IF moving the entire group of assembled personnel to another area, THEN:
		a. Contact the MAC to inform them of the intended move.
		b. Record badge numbers of people moving.
		 Instruct personnel in your area to proceed <u>directly</u> to the new destination, staying in a group until head count can be verified.
		d. Verify the badge numbers upon arrival at the new location.
		e. Contact the MAC to verify arrival and to provide a phone number at the new location.
	5.3.11	IF the plant siren is sounded following the initial accountability, <u>THEN</u> initiate contacts to all individuals listed as <u>NOT</u> "Returned or Arrived" on your Form EPIPF-SEC-03-01:
		a. <u>WHEN</u> contacted, give them any information you know about the siren sounding.
	•	b. IF instructed by a Facility Director, instruct the individual to come back to an assembly area.
		c. Note the individuals that were contacted and notify the MAC of individuals logged out of your area and whether you were able to contact them.
		d. Return to Step 5.3.4.
	5.3.12	If appropriate, plan a shift relief for the area AC per EPIP-AD-05.
	5.3.13	IF Final Conditions (Section 6.0) have <u>NOT</u> been met, <u>THEN</u> return to Step 5.3.7.

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		5.3.1	4 IF Final Conditions (Section 6.0) are met, THEN	
1 ³			Note Flag any discrepancies to emergency supplies that need correction.	
			a. Return your work area to normal status and return emergency procedures, forms, etc. to there proper place.	
			b. Collect all completed forms, notes, and other documentation and give them to the SPD.	
	5.4	4 5	ecurity Force shall:	
		5.4.	<u>WHEN</u> accountability is required and the SMS system is offline, manually maintain a log of personnel entering/exiting the PA to enable the MAC to update the accountability roster as necessary.	
		5.4.2	Guide PA ingress/exit in accordance with EPIP-SEC-02, "Security Force Response to Emergencies."	
		5.4.:	Patrolling Security Officers shall:	
\smile			a. Verify their locations by portable radio to the Shift Captain for accountability.	
			 Obtain personal dosimetry to take with them on patrol in accordance with EPIP-SEC-04, "Security Force Actions for Dosimetry Issue." 	
	6.0	Fin	I Conditions	
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	7.0	Ref	erences	
	7.1	1	Kewaunee Nuclear Power Plant Emergency Plan	
	7.2	2	EPIP-AD-01, Personnel Response to the Plant Emergency Siren	
	7.3	3	EPIP-AD-05, Emergency Response Organization Shift Relief Guideline	
	7.4	4	EPIP-AD-11, Emergency Radiation Controls	
	7.:	5	EPIP-RET-02D, Emergency Radiation Entry Controls and Implementation	
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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.

: -

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8.1.1 <u>QA Records</u>

None

- 8.1.2 Non-QA Records
 - Emergency Accountability Log, Form EPIPF-SEC-03-01

ACCOUNTABILITY AREAS (Inside the Protected Area)

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LOCATION IN THE AND	PHONE NUMBER
Control Room	8207
Radiation Protection Office	- 8451
Technical Support Center (Included OSF and RAF)	8353
Administrative Training Facility (Lunchroom)	6480
Warehouse Annex (Lunchroom)	·- · · 6452

ALTERNATE LOCATION	PHONE NUMBER
Administrative Training Facility (Basement)	6548
Warehouse Annex (Locker Room)	6454

ACCOUNTABILITY AREAS (Outside the Protected Area)

LOCATION	PHONE NUMBER
Security Building Classroom C	6548 ,
Simulator Training Facility (Lunchroom)	6534

ALTERNATE LOCATION	PHONE NUMBER
Security Locker Room (Security Building)	8292
Simulator Training Facility (Simulator Control Room)	8607

ACCOUNTABILITY LEADERS

LEAI	DER	PHONE NUMBER
Master Accountability Coordinator (Security Building)		8509
Accountability Coordinator (8289
Site Protection Director		
	(TSC)	PBX 8591 Kew. Ex. 388-0459

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Nuclear Safety Related	□ Yes ☑ No	PORC Review	-	⊠ Yes □ No	SRO Approval Of Temporary Changes Require	,	☑ Yes ☑ No

1.0 Purpose

1.1 This procedure provides instruction for calculating the steam release rate in cc/sec to the environment from a faulted steam generator with a tube rupture in the same generator.

2.0 General Notes

2.1 The calculation for steam release may be performed using the PC Program STMRLS or manually. Step 5.1 of this procedure is used when the computer calculation is performed. Steps 5.2 or 5.3 are used when performing a manual calculation.

3.0 Precautions and Limitations

3.1 None

4.0 Initial Conditions

4.1 This procedure applies when the reactor is shutdown with or without reactor coolant pumps running. The core Delta-T and faulted steam generator pressure is relatively stable. The faulted steam generator is the only steam release path. The fault may be on any unisolated portion of the steam generator or steam line.

5.0 Procedure

5.1 Steam Release Calculation Using PC Program STMRLS

<u>Note</u>

<u>IF</u> steam release is due to an open steam generator PORV or safety valve, <u>THEN</u> only Steps 5.1.1(a) and 5.1.1(g) need to be performed.

- 5.1.1 Record the following data on Form EPIPF-TSC-08A-04:
 - a. Release due to open PORV or safety valve (Y/N).
 - b. Reactor power prior to reactor shutdown (MWth).
 - c. Number of days that reactor was at power.
 - d. Time since reactor shutdown (min).

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- e. Number of operating reactor coolant pumps. IF one or two reactor coolant pumps are running, <u>THEN</u> record RCS average temperature from loop with running reactor coolant pump. IF zero reactor coolant pumps are running, <u>THEN</u> record wide range hot leg and cold leg temperatures for each RCS loop.
 - f. RCS average pressure (psig).
 - g. Ruptured steam generator pressure (psig).
 - IF ruptured steam generator pressure is approximately the saturation pressure for RCS average temperature, <u>THEN</u> a steam release projection is available.
 - h. Intact steam generator pressure (psig).
 - i. Safety injection flow rate (gpm).
 - j. Total auxiliary feedwater flow rate to intact steam generator (gpm).

<u>Note</u>

Ensure that a PC and printer are set up in the lower Technical Support Center.

- 5.1.2 Log into the KNPP Network using your own Network ID and Password.
- 5.1.3 Click on the Steam Release Icon on the menu bar.
- 5.1.4 IF the network is unavailable, <u>THEN</u>:
 - a. Turn OFF the computer.
 - b. Retrieve the diskette labeled EPIP-TSC-08B, "STMRLS Computer Program," from the TSC emergency supply cabinet. (See EPIP-TSC-08B for alternate diskette locations.)
 - c. Insert the diskette into the PC's disk drive.
 - d. Turn the computer ON. After approximately 20 seconds, the computer will begin to execute the program.

<u>Note</u>

A steam release "projection" is available if ruptured steam generator is approximately equal to saturation pressure for RCS average temperature. To enable the projection, enter "0" for ruptured steam generator pressure. This tells the computer that the ruptured steam generator is saturated at RCS temperature.

5.1.5 Input the data from Form EPIPF-TSC-08A-04 into the program. The program will prompt all required inputs.

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- 5.1.6 Record the steam release rate on Form EPIPF-TSC-08A-04.
- 5.1.7 IF a steam release projection is made, <u>THEN</u> note the general trend (increasing or decreasing) of the steam release. Do not use the projection release rates. The projection is for trending purposes only.

<u>Note</u>

The letters under blanks on the calculation sheet match the letters on the data sheet.

<u>Note</u>

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IF steam release is due to an open PORV or safety valve, THEN perform Step 5.3.

5.2 Steam Release Calculation Using an Energy Balance Across RCS

- 5.2.1 Heat Input from the Reactor and Reactor Coolant Pumps
 - 5.2.1.1 Record the following data on Form EPIPF-TSC-08A-01:
 - a. Time elapsed since reactor trip.
 - b. Decay heat using Reactor Data Manual, Section RD 11.2 or below tabulation (the Reactor Data Manual and table below assume 100% power for 300 days prior to reactor trip).

RATE OF PRODUCTION OF DECAY HEAT FOLLOWING SHUTDOWN

TIME A	<u>FTER SHUTDOWN</u>	<u>% OF </u>	FULL POWER
	1 second		6.37
	1 minute	- •u - •	2.69
	30 minutes	• -	1.25
	1 hour		1.06
	8 hours		0.63
	24 hours		0.46
	48 hours		0.37
	-		

c. Number of reactor coolant pumps running.

5.2.1.2 Use Formula 1 on Form EPIPF-TSC-08A-02 to calculate the heat input in Btu/sec.

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- 5.2.2 Heat Input from the Reactor Coolant System
 - 5.2.2.1 Record the following data on Form EPIPF-TSC-08A-01:
 - a. With one or two RXCPs running, record T_{ave} from loop with running reactor coolant pump.
 - b. With zero running, record RCS wide range hot and cold leg temperatures for each loop.
 - c. Reactor Coolant System pressure.
 - d. Using steam tables, calculate the Enthalpy (h_f) at RCS temperature and pressure.
 - e. Using steam tables, calculate the Specific Volume (V_f) at RCS temperature and pressure.
 - f. Safety injection total flow using F8002G (FI-924) and F8001G (FI-925).
 - 5.2.2.2 Use Formula 2 on Form EPIPF-TSC-08A-02 to calculate the heat input in Btu/sec.
- 5.2.3 Heat Input from Auxiliary Feedwater Flow
 - 5.2.3.1 Record the following data on Form EPIPF-TSC-08A-01:
 - a. Intact steam generator pressure.
 - b. Using steam tables, calculate the saturated liquid Enthalpy (h_f) at intact steam generator pressure.
 - c. Auxiliary feedwater total flow using FI-18201 and FI-18202
 - (Control Room).
 - 5.2.3.2 Use Formula 3 on Form EPIPF-TSC-08A-02 to calculate the heat input in Btu/sec.

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5.2.4 Steam Release Calculation

- 5.2.4.1 Record the following data on Form EPIPF-TSC-08A-01:
 - a. Faulted steam generator pressure.
 - b. Using steam tables, calculate the Latent Heat of Vaporization (h_{fg}) at faulted steam generator pressure.
 - c. Using steam tables, calculate the Specific Volume (V_g) at faulted steam generator pressure.
 - 5.2.4.2 Use Formulas 4 and 5 on Form EPIPF-TSC-08A-02 to calculate the steam release in cc/sec.

5.3 Steam Release Calculation Due to Open PORV or Safety Valve

- 5.3.1 Steam Generator Parameters
 - 5.3.1.1 Record the following data on Form EPIPF-TSC-08A-03:
 - a. Valve that is open (PORV or safety).
 - b. Discharge area for the open valve: PORV area is 0.0474 ft² and for the safety, the area is 0.0983 ft².
 - c. Faulted steam generator pressure.
 - d. Using steam tables, determine the saturation temperature.
- 5.3.2 Steam Release Calculation
 - a. Using Equation 1, determine the steam velocity.
 - b. Using Equations 2 and 3, calculate the steam release rate.

6.0 Final Conditions

- 6.1 The emergency declaration is closed out, <u>OR</u>
- 6.2 The steam release is terminated, <u>OR</u>
- 6.3 The plant has been stabilized, recovery operations have been entered, and it has been determined that any steam release does not present a hazard to the public. (Projections indicate doses from a release are below Technical Specification Limits at the Site Boundary.)

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References

- 7.1 Reactor Data Manual, Section RD 11.2, Reactor Decay Heat
 - 7.2 Startup Test 3.9, Reactor Coolant System Steam Rate Without Nuclear Heat
 - 7.3 Steam Tables, Properties of Saturated and Superheated Steam
 - 7.3.1 Table 1, Saturated Steam: Temperature Table
 - 7.3.2 Table 2, Saturated Steam: Pressure Table
 - 7.4 EPIP Appendix B, Forms
 - 7.5 EPIP-TSC-08B, STMRLS Computer Program
 - 7.6 COMTRAK 89-029

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 <u>QA Records</u>
 - Steam Release Data Sheet (Energy Balance), Form EPIPF-TSC-08A-01
 - Steam Release Calculation Sheet (Energy Balance), Form EPIPF-TSC-08A-02
 - Steam Release Data/Calculation Sheet (Open Valve), Form EPIPF-TSC-08A-03
 - Steam Release Data/Calculation Sheet (STMRLS Program), Form EPIPF-TSC-08A-04
 - 8.1.2 Non-QA Records

None