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

November 27, 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

November 27, 2001

EMERGENCY PLAN IMPLEMENTING PROCEDURES TRANSMITTAL FORM

RETURN TO DIANE FENCL - KNPP

OUTSIDE AGENCY COPIES (1-20)

T. Webb - NRC Document Control Desk (1)*	Krista Kappelman - PBNP - EP (10)*
T. Webb - NRC Region III (2 & 3)*	Craig Weiss - Wisconsin Power & Light (11)*
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)
D. Masarik (32)	D. Seebart (24)	B. Bartelme (34)	

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

STF (86, 87, 88)	LOREB - STF (62, 66, 67, 68, 70, 72, 73, 74)
L. Welch - 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)	D. Krall - 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)
C. Hutter - ATF-1 (64)	W. Galarneau - RPO (55)

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

W. Galarneau - RAF/RPO (106, 107)	D. Krall - CR/Communicator (116)(Partial Distribution)
W. Galarneau - SBF/ENV (108, 109)	Simulator/Communicator (117)
W. Galarneau - SBF/EM Team (110, 111, 111A)	M. Fencl - 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
November 27, 2001

Please follow the directions listed below. If you have any questions regarding changes made to the EPIPs, please contact Dave Seebart at ext. 8719. If you are a controlled copy holder (see cover page), return this page to Diane Fencel by December 27, 2001, SIGNED AND DATED to serve as a record of revision.

EPIP Index, dated 11-27-2001.

REMOVE		INSERT	
PROCEDURE	REV.	PROCEDURE	REV.
EPIP-AD-19	P	EPIP-AD-19	Q
EPIP-EOF-08	S	EPIP-EOF-08	T
EPIP-RET-02	T	EPIP-RET-02	U
EPIP FORM EOF 8.3	F	Form EPIPF-EOF-08-03	G
EPIP FORM EOF 8.5	ORIG	Form EPIPF-EOF-08-05	A
EPIP FORM EOF 8.6	C	Form EPIPF-EOF-08-06	D

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

SIGNATURE

DATE

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

C.F.S. for
Diane Fencel

Enclosure

EMERGENCY PLAN IMPLEMENTING PROCEDURES

INDEX

DATE: 11-27-2001

PROC. NO.	TITLE	REV.	DATE
EP-AD			
EPIP-AD-01	Personnel Response to the Plant Emergency Siren	H	09-10-2001
EPIP-AD-02	Emergency Class Determination	AC	11-15-2001
EPIP-AD-03	KNPP Response to an Unusual Event	AC	11-15-2001
EPIP-AD-04	KNPP Response to Alert or Higher	AE	11-15-2001
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	AN	11-15-2001
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
EPIP-AD-11	Emergency Radiation Controls	Q	09-27-2001
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	O	10-30-2001
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	Q	11-27-2001

EMERGENCY PLAN IMPLEMENTING PROCEDURES

INDEX

DATE: 11-27-2001

PROC. NO.	TITLE	REV.	DATE
EPIP-AD-20	KNPP Response to a Security Threat	A	11-15-2001
EP-ENV			
EPIP-ENV-01	Environmental Monitoring Group Organization and Responsibilities	V	10-02-2001
EPIP-ENV-02	Environmental Monitoring Team Activation	X	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	V	10-09-2001
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	W	10-09-2001
EP-ENV-4C	Environmental Monitoring Teams	Deleted	04-13-90
EPIP-ENV-04C	Ground Deposition Sampling and Analysis	W	10-09-2001
EPIP-ENV-04D	Plume Tracking for Environmental Monitoring Teams	N	10-02-2001
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

EMERGENCY PLAN IMPLEMENTING PROCEDURES

INDEX

DATE: 11-27-2001

PROC. NO.	TITLE	REV.	DATE
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
EP-EOF			
EP-EOF-1	Corporate Emergency Response Organization	Deleted	03-11-94
EPIP-EOF-02	Emergency Operations Facility (EOF) Activation	Y	10-30-2001
EPIP-EOF-03	EOF Staff Action for Unusual Event	AA	09-27-2001
EPIP-EOF-04	EOF Staff Action for Alert or Higher	AG	09-27-2001
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	T	11-27-2001
EP-EOF-9	Interface with Support Organizations	Deleted	03-05-84
EP-EOF-9	Notification of Site Emergency	Deleted	04-24-87
EP-EOF-10	Notification of General Emergency	Deleted	04-24-87
EPIP-EOF-11	Internal Communication and Documentation Flow	U	11-15-2001
EPIP-EOF-12	Media Center/Emergency Operation Facility/Joint Public Information Center Security	P	07-19-2001

EMERGENCY PLAN IMPLEMENTING PROCEDURES**INDEX****DATE: 11-27-2001**

PROC. NO.	TITLE	REV.	DATE
EP-OP			
EP-OP-1	Control Room Emergency Organization	Deleted	04-24-87
EP-OP-2	Emergency Control Room Activation for Emergency Response	Deleted	04-24-87
EP-OP-3	Control Room Communications	Deleted	04-24-87
EP-OSF			
EP-OSF-1	Operation Support Facility Emergency Organization	Deleted	04-24-87
EPIP-OSF-02	Operational Support Facility Operations	S	08-29-2000
EPIP-OSF-03	Work Requests During an Emergency	O	09-27-2001
EP-OSF-4	Operational Support Facility Communications	Deleted	04-24-87
EPIP-OSF-04	Search and Rescue	D	09-12-2000
EP-RET			
EP-RET-1	Radiation Emergency Team Organization	Deleted	04-16-96
EPIP-RET-02	In-Plant Radiation Emergency Team	U	11-27-2001
EPIP-RET-02A	Radiation Protection Office/Radiological Analysis Facility (RPO/RAF) Activation	S	10-02-2001
EP-RET-2B	Gaseous Effluent Sample and Analysis	Q	03-03-98
EP-RET-2C	Containment Air Sampling and Analysis	Deleted	03-01-83
EPIP-RET-02D	Emergency Radiation Entry Controls and Implementation	M	06-12-2001
EP-RET-2E	Handling of Injured Personnel	Deleted	04-16-96
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

EMERGENCY PLAN IMPLEMENTING PROCEDURES

INDEX

DATE: 11-27-2001

PROC. NO.	TITLE	REV.	DATE
EP-RET-3C	Post Accident Operation of the High Radiation Sample Room	O	01-18-2000
EP-RET-3D	Containment Air Sampling Analysis Using CASP	M	01-18-2000
EP-RET-3E	Post Accident Operation of High Rad Sample Room Inline Multiported Count Cave	Deleted	08-27-85
EPIP-RET-04	SBF Activation	R	10-02-2001
EP-RET-4A	EOF Radiological Monitoring	Deleted	03-10-83
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
EP-RET-5	Plume Projection	Deleted	09-26-84
EPIP-RET-05	Site Boundary Dose Rates During Controlled Plant Cooldown	H	10-09-2001
EP-RET-5A	Plume Projection	Deleted	04-27-87
EP-RET-6	Dose Projection	Deleted	04-24-87
EP-RET-7	Radiological Analysis Facility/Radiation Protection Office Communications	Deleted	04-24-87
EPIP-RET-08	Contamination Control of the Aurora Medical Center	P	10-30-2001
EPIP-RET-09	Post-Accident Population Dose	K	08-29-2000
EP-SEC			
EP-SEC-1	Security Organization	Deleted	04-24-87
EPIP-SEC-02	Security Force Response to Emergencies	W	08-28-2001
EP-SEC-2A	Manual Activation of Emergency Sirens	Deleted	04-16-82
EPIP-SEC-03	Personnel Assembly and Accountability	AB	10-19-2001
EPIP-SEC-04	Security Force Actions for Dosimetry Issue	P	10-02-2001

EMERGENCY PLAN IMPLEMENTING PROCEDURES

INDEX

DATE: 11-27-2001

PROC. NO.	TITLE	REV.	DATE
EP-SEC-5	Security Force Response to the EOF	Deleted	07-28-88
EPIP-SEC-05	Personnel Evacuation	F	07-05-2001
EP-TSC			
EPIP-TSC-01	Technical Support Center Organization and Responsibilities	P	10-02-2001
EPIP-TSC-02	Technical Support Center Activation	R	07-18-2000
EPIP-TSC-03	Plant Status Procedure	V	10-09-2001
EPIP-TSC-04	Emergency Physical Changes, Major Equipment Repair	M	10-02-2001
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	I	10-19-2001
EPIP-TSC-08A	Calculations for Steam Release from Steam Generators	M	03-07-2000
EPIP-TSC-08B*	STMRLS Computer Program	F	10-02-2001
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			
EP-TSC-9	Core Damage Assessment Using Released Radionuclides	Deleted	09-30-86
EP-TSC-9A*	Core Damage Assessment	I	02-23-99
EPIP-TSC-09B*	CORE Computer Program	J	10-02-2001
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.			
EPIP-TSC-10	Technical Support for IPEOPs	I	03-20-2001

EMERGENCY PLAN IMPLEMENTING PROCEDURES

INDEX

DATE: 11-27-2001

FIGURES					
EPIP	FIG #	Figure EPIPG	DESCRIPTION	REV.	DATE
EP-SEC-5 EPIP-APPX-A-06	EP-FIG-003	APPX-A-06-03	Technical Support Center - KNP Floor Plan	B	06-12-2001
EPIP-APPX-A-06	EP-FIG-005	APPX-A-06-02	Site Boundary Facility - KNP Floor Plan	A	10-31-2000
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 EPIPF-EOF-02-01	EP-FIG-009	EOF-12-01	Division Office Building (2nd Floor) Floor Plan	B	10-24-2000
EPIP-APPX-A-06	EP-FIG-012	APPX-A-06-08	State/County Work Area - WPSC D2-1 Floor Plan	C	10-31-2000
EPIP-APPX-A-06	EP-FIG-013	APPX-A-06-09	NRC Work Area - WPSC D2-4 Floor Plan	A	10-31-2000
EPIP-AD-19	EP-FIG-014	AD-19-01	Population Distribution by Geographical Sub-Areas (with sectors)	A	10-31-2000
EPIP-APPX-A-06	EP-FIG-022	APPX-A-06-04	EOF - WPSC D2-3 Floor Plan	C	10-30-2001
EPIP-EOF-12	EP-FIG-024	EOF-12-02	Map - Location of JPIC, MBC, GOB, DOB, etc.	B	09-27-2001
EP-SEC-5	EP-FIG-026	SEC-05-01	Site Map	B	09-27-2001
APPX-A-6	EP-FIG-034	---	Floor Plan - Media Briefing Center	DEL	08-04-98
EPIP-EOF-12 EPIP-APPX-A-06	EP-FIG-035	APPX-A-06-06	General Office Building - WPSC (1st Floor) Floor Plan	C	10-24-2000
APPX-A-6	EP-FIG-037	---	Floor Plan - Corporate Response Center	DEL	08-04-98
APPX-A-6	EP-FIG-038	---	Floor Plan - JPIC	DEL	08-04-98
EPIP-OSF-02	EP-FIG-039	OSF-02-01	High Priority Work	A	10-02-2001
EPIP-OSF-02	EP-FIG-039A	OSF-02-02	Lower Priority Work	A	10-02-2001
EPIP-APPX-A-06	EP-FIG-043	APPX-A-06-10	JPIC - Federal Work Area - WPSC D2-9	A	10-31-2000
EPIP-APPX-A-06	EP-FIG-044	APPX-A-06-07	JPIC - State and County Work Area - WPSC D2-8	B	10-30-2001
EPIP-APPX-A-06	EP-FIG-045	APPX-A-06-05	JPIC - Utility Work Area WPSC D2-7	B	10-30-2001
RET-08	EP-FIG-046	RET-08-01	Aurora Medical Center Location	A	06-15-2000
EPIP-APPX-A-02	---	APPX-A-02-01	ERO Call Tree	B	11-15-2001

EMERGENCY PLAN IMPLEMENTING PROCEDURES

INDEX

DATE: 11-27-2001

NUMBER	TITLE	REVISION	DATE
	APPENDIX A		
APPX-A-1	Communication System Description	AF	08-04-98
EPIP-APPX-A-02	Response Personnel Call List	BL	10-19-2001
EPIP-APPX-A-03	Off-Site Telephone Numbers	BN	09-27-2001
EPIP-APPX-A-06	KNPP Emergency Response Facility Telephone Numbers	Z	10-30-2001

EMERGENCY PLAN IMPLEMENTING PROCEDURES

INDEX

DATE: 11-27-2001

FORM EPIPF	TITLE	REV.	DATE
APPENDIX B			
EP-AD			
AD-07-01	Event Notice (Wisconsin Nuclear Accident Reporting Form)	Q	11-15-2001
AD-07-02	State Call-Back - Question Guideline	C	11-15-2001
AD 11.1	Emergency Radiation Work Permit	F	04-16-96
EP-ENV			
ENV-01-01	Environmental Dispatch Area Activation Checklist	D	10-31-2000
ENV-01-02	EMT Status	B	10-31-2000
ENV-01-03	Meteorological and Plant Status Data	B	10-31-2000
ENV-01-04	EMT Orders/Field Data	B	10-31-2000
ENV-02-01	EMT Activation Checklist	M	06-15-2000
EP-EOF			
EOF-02-01	EOF Activation Checklist	S	10-30-2001
EOF-02-02	EOF Deactivation Checklist	L	10-30-2001
EOF 4.1	SRCL Initial Action Checklist	B	09-16-97
EOF 4.2	Telephone Communications Log Sheet	ORIG	04-16-96
EOF-08-03	Fax for Emergency Declaration or Status Updates	G	11-27-2001
EOF-08-05	Plant Emergency Status Report	A	11-27-2001
EOF-08-06	Radiological Status Report	D	11-27-2001
EOF-11-02	Operating Status	F	11-15-2001
EOF-11-03	Environmental Status Board	F	11-15-2001
EOF-12-01	I.D. Badge Registration Form	G	10-24-2000
EP-OSF			
OSF 2.2	Maintenance Work in Progress	Deleted	07-08-98
OSF-03-01	Operational Support Facility Team Briefing	B	09-12-2000

EMERGENCY PLAN IMPLEMENTING PROCEDURES

INDEX

DATE: 11-27-2001

FORM EPIPF	TITLE	REV.	DATE
EP-RET			
RET-02A-02	Emergency Sample Worksheet	E	06-05-2001
RET 2B.1	Containment Stack Release (Grab Sample)	C	04-16-96
RET 2B.2	Auxiliary Building Stack (Grab Sample)	C	04-16-96
RET 2B.3	Auxiliary Building Stack (Sping Reading)	C	04-16-96
RET 2B.4	Containment Stack (Sping Reading)	B	04-16-96
RET 2B.5	Steam Release	C	04-16-96
RET 2B.6	Field Reading (Grab Sample)	A	04-16-96
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	F	06-15-2000
RET 9	Environmental TLD Record Sheet	C	02-14-95
EP-SEC			
SEC-03.01	Emergency Accountability Log	A	03-28-2000
SEC 4.1	Emergency Dosimeter Log	F	02-16-2000
EP-TSC			
TSC 1.1	Plant Status Summary for SAM Implementation	A	04-01-99
TSC 1.2	Severe Accident Management Summary and Strategy Recommendation	A	04-01-99
TSC 1.3	Severe Accident Management – Status	A	04-01-99
TSC-02-01	TSC and OSF Activation Checklist	O	09-27-2001
TSC 2.2	TSC Ventilation Checklist	H	04-01-99
TSC-02-03	Emergency Response Data System (ERDS) Link Initiation Checklist	G	05-04-2001

EMERGENCY PLAN IMPLEMENTING PROCEDURES**INDEX****DATE: 11-27-2001**

FORM EPIPF	TITLE	REV.	DATE
TSC-02-04	TSC Chart Recorder Operation Checklist	D	01-30-2001
TSC-02-05	TSC and OSF De-activation Checklist	A	10-09-2001
TSC-03-01	Plant System Status	L	06-12-2001
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	H	06-12-2001
TSC-04-01	Emergency Physical Change Request	F	08-29-2000
TSC-04-02	Emergency Physical Change Safety Review	F	08-29-2000
TSC-04-03	Emergency Physical Change Index	F	08-29-2000
TSC-07-01	Head Venting Calculation	F	10-31-2000
TSC 8A.1	Steam Release Data Sheet (Energy Balance)	G	02-14-95
TSC 8A.2	Steam Release Calculation Sheet (Energy Balance)	F	02-14-95
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		No.	EPIP-AD-19	Rev.	Q
		Title	Protective Action Guidelines		
<i>Emergency Plan Implementing Procedure</i>		Date	NOV 27 2001	Page 1 of 6	
		Reviewed By	<i>Jeannette M. Ferris</i>		
		Approved By	<i>David R. Seabast</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 Emergency Director (ED) initially responsible for using this procedure, upon declaration of a plant emergency, to provide off-site authorities with Protective Action Recommendations (PARs). When the Emergency Operations Facility (EOF) has been activated, the responsibility will be assumed by the Emergency Response Manager (ERM).

2.0 General Notes

- 2.1 **The Shift Manager is the initial ED in all situations.** Any transfer of this responsibility should be documented in the Shift Manager's log and communicated to all other directors.
- 2.2 Communication of the initial PARs should be in progress to state and local emergency government authorities within 15 minutes of the emergency level being declared or as soon as possible without further compromise to plant or public safety.
- 2.3 The ED, with the assistance of the Radiological Protection Director (RPD), is responsible for PARs to off-site authorities prior to EOF activation. This responsibility is assumed by the Emergency Response Manager, with the support of the Environmental Protection Director (EPD), following the EOF activation. This responsibility may not be delegated.
- 2.4 As more information becomes available, initial default PARs should be adjusted in accordance with Step 5.2 of this procedure.

3.0 Precautions and Limitations

- 3.1 PARs are normally implemented for affected populations within the 10-mile plume exposure pathway EPZ. However, **DO NOT** ignore populations outside the 10-mile plume exposure pathway **IF** projected doses or field readings indicate doses > 1 rem TEDE or > 5 rem thyroid. (See Step 5.2.10)

4.0 Initial Conditions

- 4.1 The Emergency Director shall classify the emergency in accordance with EPIP-AD-02, "Emergency Class Determination," prior to the implementation of this procedure.

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant	No. EPIP-AD-19	Rev. Q
	Title Protective Action Guidelines	
Emergency Plan Implementing Procedure	Date NOV 27 2001	Page 2 of 6

5.0 Procedure

Note

Adverse meteorology exists if the 10 and 60 meter wind speed is less than 5 mph and Delta T is greater than +2.4 deg. F or Sigma Theta is less than 3.01 deg.

5.1 Initial PARs for the appropriate emergency class.

5.1.1 General Emergency

- a. IF adverse meteorology exists, THEN recommend to off-site authorities using Form EPIPF-AD-07-01, "Event Notice (Wisconsin Nuclear Accident Reporting Form)," Section 9 to evacuate:
 - (C) 0-5 mile radius
- b. IF adverse meteorology **DOES NOT** exist, THEN recommend to off-site authorities using Form EPIPF-AD-07-01 Section 9 to evacuate:
 - (B) 0-2 mile radius
 - (D) 2-5 miles for sectors _____, _____, _____
(3 down-wind sectors)
- c. Ensure on-site members of the general public (visitors, fishermen, tourists, farmers, etc.) are directed to leave the site in accordance with EPIP-SEC-02, "Security Force Response to Emergencies."
- d. Ensure control measures for site access/egress are established in accordance with EPIP-SEC-02.

5.1.2 Site Emergency

- a. Verify on-site members of the general public are directed to leave the site in accordance with EPIP-SEC-02.
- b. Verify control measures for site access/egress are established in accordance with EPIP-SEC-02.
- c. Immediate Planned Protective Action Recommendations from Form EPIPF-AD-07-01 Section 9 for the general public are:
 - (A) None

5.1.3 Alert

- a. Verify on-site members of the general public are directed to leave the site in accordance with EPIP-SEC-02 as a precautionary measure.
- b. Verify control measures for site access/egress are established in accordance with EPIP-SEC-02.

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No. EPIP-AD-19	Rev. Q
	Title Protective Action Guidelines	
	Date NOV 27 2001	Page 3 of 6

- c. Immediate Planned Protective Action Recommendations from Form EPIPF-AD-07-01 Section 9 for the general public are:

- (A) None

5.1.4 Unusual Event

- a. Immediate Planned Protective Action Recommendations from Form EPIPF-AD-07-01 Section 9 for the general public are:

- (A) None

5.2 PARs developed from Dose Projections and/or field survey and sample results.

5.2.1 Obtain the most recent RASCAL dose projections for TEDE and thyroid doses.

5.2.2 Obtain field survey and sample results.

5.2.3 Compare the available information obtained from the most recent RASCAL dose projections and field data with Table 1 to determine possible changes to off-site PARs.

- a. IF projected or direct field result doses meet the criteria in the first column of the table, THEN relay the identified "recommended action" to the ERM (ED) immediately.

5.2.4 Evaluate the impact time, plant conditions (past, present, projected), weather conditions and forecast, and evacuation time estimates using Table 2, "Evacuation Time Estimates (KNPP/EPZ)."

5.2.5 Determine the most effective appropriate protective actions the public can take based on both radiological and plant conditions.

Note

The following step will normally be performed only if the State EOC in Madison has been activated.

5.2.6 If appropriate, instruct the State Radiological Coordinator Liaison (SRCL) to discuss potential changes in PARs with the State Radiological Coordinator (SRC) for the State of Wisconsin.

5.2.7 IF new PARs are advisable, THEN complete Form EPIPF-AD-07-01.

5.2.8 Forward Form EPIPF-AD-07-01 to the appropriate Communicator for transmission to government officials.

5.2.9 IF projections indicate a potential dose to the thyroid of > 25 rem for Emergency workers, THEN verify "Potassium Iodide Distribution," EPID-AD-18, is being implemented.

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant	No.	EPIP-AD-19	Rev.	Q
	Title	Protective Action Guidelines		
Emergency Plan Implementing Procedure	Date	NOV 27 2001	Page 4 of 6	

5.2.10 IF projections or field readings indicate doses > 1 rem TEDE or > 5 rem thyroid to any population outside of the EPZ, THEN report this immediately to the state and counties and if requested, provide assistance with *ad hoc* planning.

5.2.11 Repeat Step 5.2 until the Final Conditions are met, see Section 6.0.

6.0 Final Conditions

6.1 Additional Protective Action Recommendations are no longer required when the 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 EPA-400-R-92-001, Manual of Protective Action Guides and Protective Actions for Nuclear Incidents (October 1991)
- 7.2 NUREG/CR-2925, In-Plant Considerations for Optimal Off-site Response to Reactor Accidents (November 1982)
- 7.3 U.S. Food and Drug Administration, 21CFR Part 1090
- 7.4 EPIP-AD-02, Emergency Class Determination
- 7.5 EPIP-SEC-02, Security Force Response to Emergencies
- 7.6 NUREG-0654, II.J.7 and II.J.8
- 7.7 Kewaunee Nuclear Power Plant Emergency Plan, Appendix A
- 7.8 EPIP-AD-18, Potassium Iodide Distribution

8.0 Records

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

8.1.1 QA Records

- Event Notice, Form EPIPF-AD-07-01

8.1.2 Non-QA Records

None

PROJECTED DOSE (REM) TO THE POPULATION	RECOMMENDED ACTIONS ^(a)	COMMENTS
TEDE < 1 rem Thyroid < 5 Rem	No planned protective actions. ^(b) Monitor environmental radiation levels.	If the conditions of Section 6.0 are satisfied, previously recommended protective actions may be reconsidered.
TEDE > 1 rem Thyroid > 5 rem	Recommend evacuation in affected sectors. Monitor environmental radiation levels and adjust sectors recommended for evacuation based on these levels. Control access.	Seeking shelter would be an alternative if evacuation were not immediately possible.

PROJECTED DOSE (REM) TO EMERGENCY TEAM WORKERS	RECOMMENDED ACTIONS ^(c)	COMMENTS
TEDE < 5 rem All other Organs < 50 rem TODE	Control exposure of emergency workers to these levels except for those instances listed below. (Appropriate controls for emergency workers include time limitations, respirators, and stable iodine.)	“All other Organs” include: skin extremities and thyroid. Stable iodine may be made available for use where predicted doses exceed 25 rem to the thyroid. Although respirators and stable iodine should be used where effective to control dose to emergency team workers, thyroid dose may not be a limiting factor for lifesaving missions.
TEDE < 10 rem All other Organs < 100 rem TODE	Emergency workers exposure should be controlled below these levels when their mission involves protecting valuable property.	
TEDE < 25 rem All other Organs < 250 rem TODE	Emergency workers exposure should be controlled below these levels when their mission involves lifesaving or protection of large populations.	For Environmental/Monitoring Teams, refer to RASCAL “Maximum Doses at Selected Distances” output screen. Check bone, lung, and thyroid doses.

^(a)These actions are recommended for planning purposes. Protective action decisions at the time of the incident must take existing conditions into consideration. These conditions include containment activity, probability of containment failure, plume transport time, release duration, and any other pertinent conditions.

^(b)At the time of the incident, officials may implement low-impact protective actions in keeping with the principle of maintaining radiation exposures as low as reasonably achievable.

^(c)These actions are recommended for planning purposes. Protective action decisions at the time of the incident must take existing conditions into consideration. These conditions include containment activity, probability of containment failure, plume transport time, release duration, and any other pertinent conditions.

EVACUATION TIME ESTIMATES (KNPP/EPZ)

1	2	3	4	5	6	7		8	9
Area (Pop.)	Sectors	Total Vehicles	Route (Miles)	Avg. Speed (mph)	Travel Time (min.)	Notif. Time (min.)	Plan Time (min.)	Total Evac. Time (min.)	Severe Weather (min.)
2 (203)	All	64	Hwy. 42 (4.75)	50	6	15	30	51	72
5N (700)	m,n,p,q, r,a,b	89	Co. Tk. B (3)	50	4	15	30	49	68
"	"	130	Hwy. 42 (7.75)	45	11	15	30	56	82
5S (585)	j,k,l,m	47	Co. Tk. AB (3)	50	4	15	30	49	68
"	"	136	Hwy. 42 (4)	50	5	15	30	50	70
10N (3559)	r,a,b	222	Co. Tk. B (4.5)	45	6	15	30	51	72
"	"	890	Hwy. 42 (7)	50	9	15	30	54	78
10NW (530)	p,q,r	89	Co. Tk. B (4.5)	45	6	15	30	51	72
"	"	77	Co. Tk. AB (2.5)	50	3	15	30	48	66
10W (803)	n,p,q	84	Co. Tk. Q (4)	45	6	15	30	51	72
"	"	167	Co. Tk. AB (8.5)	50	11	15	30	56	82
10SW (1456)	l,m,n	455	Co. Tk. Q (4)	45	6	15	30	51	72
10SSW (2029)	k,l	92	Co. Tk. Q (4)	45	6	15	30	51	72
"	"	542	Co. Tk. AB (5.25)	50	7	15	30	52	74
10S (663)	j,k	207	Hwy. 42 (5.25)	50	7	15	30	52	74

December 2, 1993

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>		No. EPIP-EOF-08	Rev. T
		Title Continuing Emergency Notifications	
		Date NOV 27 2001	Page 1 of 10
Reviewed By <i>Jeanne M. Ferris</i>		Approved By <i>William M. Bartelme</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 Notifier (SEC-N), Control Room Communicator (CRCM), EOF Communicator (EOFCM), or Off-Site Communicator (OFFCM) for notification of Off-Site Authorities of an emergency event escalation, de-escalation, change in Protective Action Recommendation (PAR), termination, or entry into recovery, as directed by the Shift Manager (SM), Emergency Director (ED), or Emergency Response Manager (ERM).

2.0 General Notes

- 2.1 If approached by the media during a declared emergency, refer them to the Telephone Response Center at (920) 433-1400 or 1-(800) 838-6192 and tell them that this is the most accurate source of information.
- 2.2 If more than one communicator is available, then it is preferred that Steps 5.2 and 5.4 be done in parallel.

3.0 Precautions and Limitations

- 3.1 "Event Notice," Form EPIPF-AD-07-01, should be initiated and in progress to state and local emergency governments within 15 minutes of the emergency level being declared, or as soon as possible without further compromise to plant or public safety.
- 3.2 Verify the bell switch for the Emergency Government Verification Phone is ON.
- 3.3 If an emergency class escalation, de-escalation, change in PAR, termination, or entry into recovery occurs during these notifications, disregard any remaining steps and return to Step 5.1. Begin the appropriate actions and notifications for the new emergency level.

4.0 Initial Conditions

- 4.1 When the State of Wisconsin Emergency Operations Center (State EOC) is activated, this procedure shall be implemented upon declaration of an event • **ESCALATION**, • **DE-ESCALATION**, • **CHANGE IN PAR**, • **TERMINATION**, or • **ENTRY INTO RECOVERY**, as directed by the SM/ED/ERM.

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No.	EPIP-EOF-08	Rev.	T
	Title	Continuing Emergency Notifications		
	Date	NOV 27 2001	Page 2 of 10	

5.0 Procedure

5.1 IF the State EOC is NOT activated, THEN go to "Initial Emergency Notifications," EPIP-AD-07.

5.2 Event Notification (Using Primary Method, Dial Select)

5.2.1 Verify that any "Event Notice," Form EPIPF-AD-07-01, received from the SM/ED/ERM has their approval signature, date, and time.

5.2.2 Pick up the Dial Select phone.

5.2.3 Verify the line is clear.

a. IF someone is using the Dial Select line, THEN state that you have a "**PRIORITY 2**" notification. They will clear the line unless they have a "**PRIORITY 1**" call.

b. IF someone states they have a "**PRIORITY 1**" conversation, THEN acknowledge their priority and monitor the call until they finish.

5.2.4 WHEN the line is cleared, dial "**83-43-53**" (agencies to be notified).

5.2.5 IF the Dial Select System is not operating, THEN go to Step 5.3, Event Notification (Using Secondary Method, Commercial Phone).

5.2.6 WHEN each party acknowledges:

a. Answer by stating, "**This is the Kewaunee Nuclear Power Plant - Please stay on the line for a Nuclear Accident Reporting System (NARS) message.**"

b. Record the time they answer on the "Event Notice," Form EPIPF-AD-07-01, (upper left hand corner).

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No.	EPIP-EOF-08	Rev.	T
	Title	Continuing Emergency Notifications		
	Date	NOV 27 2001	Page 3 of 10	

5.2.7 IF after five (5) rings a party has not answered, THEN:

- a. Press the individuals Dial Select number from the table below,
- b. WAIT up to five (5) more rings, THEN press the “#” key to cancel ringing.

AGENCY	DIAL SELECT #
All Call	83-43-53
State EOC	83
Kewaunee County EOC	43
Manitowoc County EOC	53

5.2.8 IF unable to contact a specific agency, THEN continue with the notification of agencies on the line.

5.2.9 **Using number and letter designation** (Ref: “Phonetic Alphabet,” EPIP-APPX-A-1, Attachment A-1.1), read aloud, **SLOWLY AND DELIBERATELY**, the message text (from “Message Start” to “Message End”) of the “Event Notice,” Form EPIPF-AD-07-01.

5.2.10 With all agencies remaining on the line, ask the STATE WARNING CENTER person to **repeat** back the message.

5.2.11 IF required, contact agencies not responding on Dial Select. THEN go to Step 5.3 below.

5.2.12 Go to Step 5.6, “Internal Notification Follow-Up.”

5.3 Event Notification (Using Secondary Method, Commercial Phone)

AGENCY	COMMERCIAL #
State EOC	1-(800) 943-0003
Kewaunee County EOC	1-(920) 487-5257
Manitowoc County EOC	1-(920) 683-4916

5.3.1 UNLESS an agency is already notified using Dial Select, call each agency number in the order shown above.

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No.	EPIP-EOF-08	Rev.	T
	Title	Continuing Emergency Notifications		
	Date	NOV 27 2001	Page 4 of 10	

- 5.3.2 WHEN the party answers, THEN record the time on "Event Notice," Form EPIPF-AD-07-01.
- 5.3.3 **Using number and letter designation** (Ref: "Phonetic Alphabet," EPIP-APPX-A-1, Attachment A-1.1), read aloud, **SLOWLY AND DELIBERATELY**, the message text of the "Event Notice," Form EPIPF-AD-07-01.
- 5.3.4 UNTIL all agencies have been notified, repeat Steps 5.3.1 through 5.3.3.
- 5.4 Notification of the ERO
- 5.4.1 IF the KNPP radio pager system is inoperable, THEN go to Step 5.5.
- 5.4.2 Activate Radio Pagers
- Note**
Any PBX telephone extension can be used to activate the pagers.
- Note**
To activate all of the pagers for Directors and other staff for an Unusual Event, you must repeat Steps 5.4.2.b through 5.4.2.h for the pager codes 9211 and 9222.
- a. WHEN directed by the SM/ED/ERM, activate the radio pager codes selected.
 1. Check and/or enter the appropriate radio pager codes in Step (d).
 2. If directed, enter the return phone number in Step (e), OR
 3. Check the appropriate event code in Step (e).
 - b. Dial ext. "5213" on any WPSC PBX Telephone (extension xxxx).
 - c. IF the PBX phone system is inoperable, THEN:
 - Dial "1-(920) 617-5213" from a Kewaunee (388-xxxx) or other non-Green Bay external telephone company exchange line, OR
 - Dial "617-5213" from any Green Bay (433-xxxx, 617-xxxx, etc.) External telephone company exchange, OR
 - Dial "9-(920) 617-5213" from a centrex (431-xxxx) exchange located in the EOF.

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No.	EPIP-EOF-08	Rev.	T
	Title	Continuing Emergency Notifications		
	Date	NOV 27 2001	Page 5 of 10	

- d. WHEN the phone answers and responds with a single (1) beep, dial the pager access code.

_____ "9233" - ALERT or HIGHER EVENT(All Emergency Pager Holders), OR
 _____ "9211" - UNUSUAL EVENT (Directors), AND
 _____ "9222" - UNUSUAL EVENT (Select Staff), AND/OR
 " _____ " _____ " _____ " - Other code(s) provided by the SM/ED/ERM.

- e. WHEN the phone responds with three (3) beeps, dial the message code.

" _____ " Phone number for return call, OR
 _____ "66666" UNUSUAL EVENT, OR
 _____ "77777" ALERT, OR
 _____ "88888" SITE EMERGENCY, OR
 _____ "99999" GENERAL EMERGENCY, OR
 _____ "44444" TERMINATION OR RECOVERY.

- f. Press the "#" key.

- g. WHEN the phone responds with five (5) beeps, hang up.

- h. IF another pager access code is to be activated, THEN return to step (b).

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No.	EPIP-EOF-08	Rev.	T
	Title	Continuing Emergency Notifications		
	Date	NOV 27 2001	Page	6 of 10

Note

This step is used if the radio paging system is inoperable or significantly degraded on a Monday through Thursday, from 3:30 p.m. to 7:00 a.m., Friday 3:30 p.m. until Monday 7:00 a.m., and all day on Nuclear Management Company (NMC) holidays.

5.5 Alternate ERO Notification Method

Note

A Liaison should not accept responsibility for the ERO Call Tree unless they have immediate access to EPIP-APPX-A-02, "Response Personnel Call List."

Note

IF a Liaison does not accept the responsibility for an ERO Call Tree (Part "A" and/or Part "B"), THEN the communicators should implement that part of the Call Tree themselves.

5.5.1 Call the following Liaisons in the order listed until two liaisons accept the ERO Call Tree responsibility.

- a. Contact a Liaison from the list below and inform the Liaison that a(n) _____ (Unusual Event, Alert, Site Emergency, or General Emergency) was declared at _____ (time) and the ERO Call Tree Part "A" should be activated.
- b. Contact a Liaison from the list below and inform the Liaison that a(n) _____ (Unusual Event, Alert, Site Emergency, or General Emergency) was declared at _____ (time) and the ERO Call Tree Part "B" should be activated.

The personal data contained in this step has been intentionally omitted from external copies of this document.

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No. EPIP-EOF-08	Rev. T
	Title Continuing Emergency Notifications	
	Date NOV 27 2001	Page 7 of 10

5.6 Internal Notification Follow-Up

- 5.6.1 Inform the JPIC/Plant Communicator in the EOF after each Event Notice has been transmitted to the state and counties.
- 5.6.2 Inform the SRCL in the EOF after each Event Notice has been transmitted to the state and counties.

5.7 Record message on Meridian Mail

Note

Review Steps 5.7.1 through 5.7.15 and fill in the information in Step 5.7.7 before picking up the telephone receiver.

Note

Any PBX extension can be used to access the Meridian Mail.

- 5.7.1 Dial "1700" on any WPSC PBX Telephone (extension xxxx).
- 5.7.2 IF the PBX phone system is inoperable, THEN:
- Dial "1-(920) 617-5213" from any Kewaunee (388-xxxx) or other non-Green Bay external telephone company exchange line, OR
 - Dial "617-5213" from any Green Bay (433-xxxx, 617-xxxx, etc.) external telephone company exchange, OR
 - Dial "9-1-(920) 617-5213" from a centrex (431-xxxx) exchange located in the EOF.
- 5.7.3 WHEN Meridian Mail answers, Dial "1580#115800#."
- 5.7.4 WHEN acknowledged, Dial "82" (Greeting Maintenance).
- 5.7.5 WHEN acknowledged, Dial "3" (Temporary Greeting).
- 5.7.6 WHEN acknowledged, Dial "5" (Record External Greeting).

Note

The information to complete the following greeting can be found on "Event Notice," Form EPIPF-AD-07-01.

- 5.7.7 AT THE TONE, record the following greeting:
- "This is the Kewaunee Nuclear Power Plant. A(n) (enter event) was declared at (time) on (date). Please report to your duty station immediately. I say again, please report to your duty station immediately."**
- 5.7.8 Dial "#" (Stop Recording).

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No.	EPIP-EOF-08	Rev.	T
	Title	Continuing Emergency Notifications		
	Date	NOV 27 2001	Page 8 of 10	

- 5.7.9 Dial "2" (Review Greeting).
- 5.7.10 IF greeting is not the same as recorded in Step 5.7.7, THEN return to Step 5.7.4.
- 5.7.11 IF greeting is correct, THEN Dial "9" (expiration date and time).
- 5.7.12 Press "#" (default expiration month).
- 5.7.13 Press the number of tomorrows date and # (expiration day) (example: IF today is October 4, THEN enter "5#").
- 5.7.14 Press "0400#" (expiration time).
- 5.7.15 Press "83" (logoff) then hang up.

5.8 Event Notice Fax

Note

You will receive a confirmation copy of your fax broadcast material and a summary of delivery status at the fax machine in Public Affairs (A2-South West).

Note

IF a confirmation fax is not received or other problems are encountered with the broadcast fax, THEN additional information on use can be found in the Nuclear Emergency Public Information Plan (NEPIP) Appendix 10.

- 5.8.1 WHEN time permits, send fax broadcast, obtain a fax cover sheet "Fax for Emergency Declaration or Status Updates," Form EPIPF-EOF-08-03, and prefix the "Event Notice," Form EPIPF-AD-07-01, with it.
 - a. Dial "1-(800) 839-6734" on the EOF fax machine telephone receiver.
 - b. Follow the prompts and enter "1115947," (the seven digit mailbox number).
 - c. Enter "985947" (pin code).
 - d. Press "#."
 - e. Enter "008#" (broadcast list number).
 - f. Press "#" (immediate delivery).
 - g. Place the document in the fax machine.
 - h. Press the "START" (or "FAX") button.
 - i. Hang up the telephone receiver.

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No. EPIP-EOF-08	Rev. T
	Title Continuing Emergency Notifications	
	Date NOV 27 2001	Page 9 of 10

Note

Detailed instructions for the use of the EOF fax machine are contained in "Communication System Description," EPIP-APPX-A-1, Section 5.10.

- 5.8.2 IF the fax broadcast capability is lost, THEN send fax copies of the "Event Notice," Form EPIPF-AD-07-01, to the following locations individually:

LETTER DESIGNATOR	REMOTE FAX LOCATION	REMOTE FAX NUMBER
A	NRC Headquarters	9-1 (301) 816-5151
B	Wisconsin DEM (EOC)	9-1 (608) 242-3299
C	Wisconsin-Rad. Protection (EOC)	9-1 (608) 242-3285
D	DHFS Mobile Lab	9-1 (920) 794-7388
E	Kewaunee County EG (EOC)	9-1 (920) 487-2963
F	Manitowoc County EM (EOC)	9-1 (920) 683-4568
G	American Nuclear Insurance	9-1 (860) 561-4655
H	INPO	9-1 (770) 644-8549
I	Point Beach Nuclear Plant	9-1 (920) 755-6258
J	KNPP TSC	9-1 (920) 388-8396
K	JPIC	9 431-6428
L	Point Beach Admin	9-1 (920) 755-6258
M	NMC	9-1 (715) 377-3355

- 5.9 Return to EPIP-AD-03, EPIP-AD-04, or EPIP-EOF-04 at the step when you left that procedure.

6.0 Final Conditions

- 6.1 The off-site notification implemented upon declaration of an event • **DECLARATION**, • **ESCALATION**, • **DE-ESCALATION**, • **CHANGE IN PAR**, • **TERMINATION**, or • **ENTRY INTO RECOVERY**, is complete.

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No.	EPIP-EOF-08	Rev.	T
	Title	Continuing Emergency Notifications		
	Date	NOV 27 2001	Page 10 of 10	

7.0 References

- 7.1 Kewaunee Nuclear Power Plant Emergency Plan
- 7.2 EPIP-APPX-A-1, Communication System Description
- 7.3 EPIP-APPX-A-02, Response Personnel Call List
- 7.4 EPIP-APPX-A-03, Off-Site Telephone Numbers
- 7.5 EPIP-AD-03, KNPP Response to an Unusual Event
- 7.6 EPIP-AD-04, KNPP Response to Alert or Higher
- 7.7 EPIP-AD-07, Initial Emergency Notifications
- 7.8 EPIP-EOF-04, Corporate Action for Alert or Higher
- 7.9 EPIP Appendix B, Forms

8.0 Records


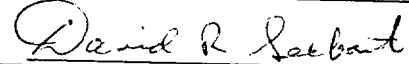
- 8.1 The following QA records and non-QA records are identified in this directive/procedure and are listed on the KNPP Records Retention Schedule. These records shall be maintained according to the KNPP Records Management Program.

8.1.1 QA Records

- Event Notice, Form EPIPF-AD-07-01

8.1.2 Non-QA Records

None

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant		No.	EPIP-RET-02	Rev.	U
		Title	In-Plant Radiation Emergency Team		
<i>Emergency Plan Implementing Procedure</i>		Date	NOV 27 2001	Page 1 of 6	
		Reviewed By			
Approved By					
Nuclear Safety Related	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	PORC Review Required	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	SRO Approval Of Temporary Changes Required	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

1.0 Purpose

- 1.1 This procedure provides instruction for the In-Plant Radiation Emergency Team (IRET), when activated.

2.0 General Notes

- 2.1 None

3.0 Precautions and Limitations

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

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No. EPIP-RET-02	Rev. U
	Title In-Plant Radiation Emergency Team	
	Date NOV 27 2001	Page 2 of 6

4.0 Initial Conditions

- 4.1 An Alert or higher emergency has been declared at the Kewaunee Nuclear Power Plant (KNPP).

5.0 Procedure

5.1 In-Plant Radiation Emergency Team (IRET) Activation

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

5.2 IRET Duties

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

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No. EPIP-RET-02	Rev. U
	Title In-Plant Radiation Emergency Team	
	Date NOV 27 2001	Page 3 of 6

Note

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

- 5.2.6 IF an Alert or higher is declared, THEN issue dosimetry to all on-site personnel, AND read aloud two times on the Gai-tronics the following message:

Attention in the plant, attention in the plant, dosimetry is required for all on-site personnel. Dosimetry will be issued at all on-site emergency facilities and accountability centers.

- 5.2.7 WHEN initial issue of dosimetry is completed, THEN read aloud two times on the Gai-tronics the following message:

Attention in the plant, attention in the plant, dosimetry has been issued at all on-site emergency facilities and accountability centers. If you have not yet received dosimetry contact the RP Group at ext. _____.

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

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No.	EPIP-RET-02	Rev.	U
	Title	In-Plant Radiation Emergency Team		
	Date	NOV 27 2001	Page 4 of 6	

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

Note

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

!! Caution !!

To Prevent Injury or Death

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

5.3.1 WHEN assigned, perform the following duties:

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

5.4 Subsequent Actions

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

- 5.4.1.1 Emergency surveys in accordance with EPIP-RET-02D, "Emergency Radiation Entry Controls and Implementation."
- 5.4.1.2 Effluent gas sampling in accordance with EPIP-RET-02B.
- 5.4.1.3 Document emergency exposures in accordance with EPIP-AD-11, "Emergency Radiation Controls."
- 5.4.1.4 Interface with Point Beach Nuclear Plant for the following additional support and resources, if needed:
 - Personnel
 - Emergency equipment
 - Sample transportation
 - Sample analysis
 - Assistance with injuries

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No.	EPIP-RET-02	Rev.	U
	Title	In-Plant Radiation Emergency Team		
	Date	NOV 27 2001	Page 5 of 6	

- 5.4.1.5 Maintain interim storage for highly contaminated samples.
- 5.4.1.6 Evaluate availability and procurement of supplies which may be required.
- 5.4.1.7 Interface with Environmental, Inc. for off-site sample analysis.
- 5.4.1.8 Evaluate methods of recovery planning in accordance with EPIP-AD-15, "Recovery Planning and Termination."

6.0 Final Conditions

- 6.1 Plant Emergency has been Terminated.

7.0 References

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

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No.	EPIP-RET-02	Rev.	U
	Title	In-Plant Radiation Emergency Team		
	Date	NOV 27 2001	Page 6 of 6	

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

FAX FOR EMERGENCY DECLARATION OR STATUS UPDATES

This is page 1 of _____ Page transmission. Time sent _____ Date sent _____

THIS IS AN URGENT FAX FOR THE FOLLOWING ADDRESSEES

DELIVER IMMEDIATELY

Fax Prog. Button

- (B) STATE OF WISCONSIN EMERGENCY OPERATIONS CENTER
OFFICER IN CHARGE (608) 242-3299
- (C) STATE OF WISCONSIN, SECTION OF RADIATION PROTECTION
STATE RADIOLOGICAL COORDINATOR (608) 242-3285
- (E) KEWAUNEE COUNTY EMERGENCY OPERATIONS CENTER
COUNTY BOARD CHAIRMAN (920) 487-2963
- (F) MANITOWOC COUNTY EMERGENCY OPERATIONS CENTER
OFFICER IN CHARGE (920) 683-4568

THIS IS AN INFORMATIONAL FAX TO THE FOLLOWING ADDRESSES

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- (G) AMERICAN NUCLEAR INSURERS (860) 561-4655
- (H) INSTITUTE OF NUCLEAR POWER OPERATIONS (770) 644-8549
- (I) POINT BEACH NUCLEAR PLANT (920) 755-6256
- (J) KNPP TSC (920) 388-8396
- (K) JOINT PUBLIC INFORMATION CENTER (920) 431-6428
- (L) POINT BEACH ADMIN (920) 755-6857
- (M) NMC (715) 377-3355

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Green Bay, WI 54307-9002
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(NOTE: *Group transmission EMER ST on the EOF fax includes all addressees.***)**

PLANT EMERGENCY STATUS REPORT

"THIS IS AN ☐ ACTUAL EVENT/ ☐ DRILL/ ☐ COMMUNICATIONS DRILL"
(Choose One)

1. Kewaunee Nuclear Power Plant
2. Date/Time: _____
3. Description of Events:
4. Emergency Action Level(s) Exceeded:
5. Major Equipment Affected: (List)
 - a. _____
 - b. _____
 - c. _____
 - d. _____
 - e. _____
 - f. _____
6. Reactor Status: (Check one)
 - a. ☐ Critical
 - b. ☐ Shutdown
7. Radiological Boundaries Lost or Threatened:
(Check all that apply)
 - a. ☐ Fuel Cladding
 - b. ☐ Reactor Coolant System
 - c. ☐ Containment
8. Plant Personnel Status (Enter # or N/A for each type incident):
 - a. # _____ Deaths
 - b. # _____ Overexposure to Personnel
 - c. # _____ Injured Personnel Treated On-Site
 - d. # _____ Injuries Treated Off-Site
 - e. # _____ Contaminated Personnel On-Site
 - f. # _____ Contaminated Personnel Off-Site
 - g. Other (explain): _____
9. Areas Affected by A Radiological Release
 - a. Plume Path (Downwind Sections: _____:_____:_____:_____:_____ Distance _____ mi.)
 - b. Deposition (Describe Location: _____)
10. News Statement from the JPIC
 - a. The Next News Statement is scheduled for (Date: _____ Time: _____)
11. State or Local Assistance Required at the Plant
 - a. Resource Required: _____
 - b. Resource Required: _____

" THIS IS AN ☐ ACTUAL EVENT/ ☐ DRILL/ ☐ COMMUNICATIONS DRILL"
(Choose One)

RADIOLOGICAL STATUS REPORT

"THIS IS AN ☐ ACTUAL EVENT/ ☐ DRILL/ ☐ COMMUNICATION DRILL"
(Choose One)

1. Kewaunee Nuclear Power Plant

2. Date/Time: _____

3. Plant Status:

- a. General: ☐ Improving ☐ Stable ☐ Degrading
b. Electrical Power: ☐ Satisfactory ☐ Problems
If problems, describe: _____

4. Off-site Radiological Conditions:

a. Release Prognosis:

- ☐ No Release is expected
☐ Release is expected at the start time listed in paragraph 4b below
☐ Release is in progress

b. Event Times (Complete all applicable times):

- ☐ Reactor Trip
☐ Start of release to containment
☐ Start of release to environment
☐ * Release Stop
* (Actual / Estimated / Default) Line out inappropriate word(s).

c. Type of Release:

- ☐ Liquid ☐ Controlled ☐ Monitored
☐ Airborne ☐ Uncontrolled ☐ Unmonitored

Release Path: _____

d. Plume Path (Downwind Sectors: _____:_____:_____:_____:_____ Distance _____ mi.)

e. Doses Downwind at the Plume Centerline:

Based on: ☐ Projections ☐ Field Measurement

*S.B. (_____ R TEDE: _____ R Thyroid)
2 Mi. (_____ R TEDE: _____ R Thyroid)
5 Mi. (_____ R TEDE: _____ R Thyroid)
10 Mi. (_____ R TEDE: _____ R Thyroid)

* For KRDose projections use the 0.5 mile values

f. Surface Deposition: (Based on: ☐ Projection ☐ Field Measurement)

DPM/100 cm² - Ci/m² Location: _____
DPM/100 cm² - Ci/m² Location: _____
DPM/100 cm² - Ci/m² Location: _____
(Line out inappropriate unit)

g. Recommended protective actions were made at (Time: _____) on the Wisconsin Nuclear Accident Reporting System Form, EPIP-AD-07-01, "EVENT NOTICE."

RADIOLOGICAL STATUS REPORT

5. Meteorological Conditions:

- a. Wind Speed: _____ MPH b. Wind Direction: _____ Deg.
- c. Stability Class (check one): ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F ☐ G
- d. Mixing Layer Height: _____ Ft. (If not available use KRDose default)
- e. Precipitation (check one): ☐ NONE
- ☐ Light Rain ☐ Moderate Rain ☐ Heavy Rain
- ☐ Light Snow ☐ Moderate Snow ☐ Heavy Snow
- f. National Weather Service Wind Speed _____ MPH Wind Dir _____ Deg.

6. Reactor Status: ☐ At Power (_____ Megawatts Thermal)
- ☐ Tripped (Power Level at trip _____ Megawatts Thermal)
- ☐ Hot Shutdown (Current RCS temperature _____ deg. F.)
- ☐ Cold Shutdown (RCS is less than 200°F.)

7. Core Status: ☐ No Damage Expected
- ☐ Core Melt sequence in progress (est. time of damage _____)
- ☐ Gap Release (est. Time: _____)
- ☐ In-Vessel Severe Core Damage (est. Time: _____)
- ☐ Vessel Melt Through (est. Time: _____)
- Ave. Temperature: ☐ Increasing ☐ Stable ☐ Decreasing

8. Containment Status:

- a. Containment Spray:
- ☐ ON
- ☐ OFF
- b. Containment Leak Rate
- ☐ None
- ☐ Calculated (_____ cc/sec)
- ☐ Design Rate (0.1% per day)
- ☐ 100% per Day
- ☐ 100% per Hour
- c. Pressure:
- ☐ Increasing
- ☐ Stable
- ☐ Decreasing
- d. Temperature
- ☐ Increasing
- ☐ Stable
- ☐ Decreasing

9. Steam Generator Status:

- a. Leak Rate: (check one):
- ☐ None
- ☐ Full Pressure (# of tubes _____)
- ☐ Low Pressure (# of charging pumps _____)
- ☐ Calculated (Gallons per minute _____)
- b. Reactor Coolant Concentrations:
- ☐ N/A (No leak)
- ☐ Normal
- ☐ 100x normal non-nobles
- ☐ Calculated Concentration (Attach Analysis)
- c. Partitioning:
- ☐ N/A (No leak)
- ☐ Leak is above steam generator water level (default)
- ☐ Leak is below steam generator water level
- d. Release Path:
- ☐ None
- ☐ Safety Valve (or PORV)
- ☐ Air Ejector

RADIOLOGICAL STATUS REPORT

10. Containment Bypass Status:

a. Containment Bypass Leak Rate:

- ☐ None
☐ Calculated (_____ cc/sec)
☐ 0.1% per Day
☐ 100% per Day
☐ 100% per Hour

b. Release Path:

- ☐ None
☐ Filtered
☐ Unfiltered

11. Gross Release Rate Data:

a. ☐ Not Applicable (No leak)

b. ☐ Not Available

c. Total _____ Ci/sec Kr, Xe _____ % Iodines _____ % Cs _____ % Te, Sb _____ %
 Ba, Sr _____ % Ru, Mo _____ % La, Y, Ce, Np _____ %

12. Specific Isotopic Release Data (Ci/sec):

a. ☐ Not Applicable (No leak)

b. ☐ Not Available

_____ H-3	_____ Sr-91	_____ Te-131 _m	_____ Xe-133 _m
_____ Mn-54	_____ Y-91	_____ Te-132	_____ Xe-135
_____ Co-58	_____ Mo-99	_____ I-131	_____ Xe-138
_____ Kr-85	_____ Te-99 _m	_____ I-132	_____ Cs-134
_____ Kr-85 _m	_____ Ru-103	_____ I-133	_____ Cs-136
_____ Kr-87	_____ Ru-106	_____ I-134	_____ Cs-137
_____ Kr-88	_____ Sb-127	_____ I-135	_____ Ba-140
_____ Sr-89	_____ Sb-129	_____ Xe-131 _m	_____ La-140
_____ Sr-90	_____ Te-129 _m	_____ Xe-133	_____ Ce-144

"THIS IS AN ☐ ACTUAL EVENT ☐ DRILL"
 (Choose One)