



Kewaunee Nuclear Power Plant
 N490, State Highway 42
 Kewaunee, WI 54216-9511
 920-388-2560
 Operated by Nuclear
 Management Company, LLC



September 14, 2000

10 CFR 50, App. E

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

Ladies/Gentlemen:

Docket 50-305
 Operating License DPR-43
 Kewaunee Nuclear Power Plant
Radiological Emergency Response Plan Implementing Procedures

Pursuant to 10 CFR 50 Appendix E, Wisconsin Public Service Corporation hereby submits one copy of the latest revisions to the Kewaunee Nuclear Power Plant Radiological Emergency Response Plan Implementing Procedures (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,

Kyle A. Hoops
 Manager-Kewaunee Plant

DLF

Attachment

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

A045

KEWAUNEE NUCLEAR POWER PLANT

September 12, 2000

EMERGENCY PLAN IMPLEMENTING PROCEDURES TRANSMITTAL FORM

RETURN TO DIANE FENCL - KNPP

OUTSIDE AGENCY COPIES (1-20)

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- T. Webb - NRC Resident Inspector (4) (receives Appx. A phone numbers)*
- T. Webb - State of Wisconsin (5)*
- T. Webb - KNPP QA Vault w/NRC Letter (15)*
- Bob Hayden – Wisconsin Electric Power Co. (10)
- Craig Weiss – Wisconsin Power & Light (11)

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- D. Seebart (24)
- J. Mueller (13)
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- QP Library - KNPP (59)
- C. Sternitzky - ATF-2 (44)
- D. Braun - Admin. Bldg. Upper (45)
- P. Ehlen - I&C Office (42)
- M. Daron - Security Building (46)
- L. Renier-Hicks – GB-D2 Nuclear EOF (77)
- J. Mueller - OSF (52)
- C. Hutter - ATF-1 (64)
- LOREB – ATF-1 (66)
- LOREB - STF (62, 67, 68, 70, 72, 73, 74)
- STF Library (43)
- Resource Center (82, 89, 94, 131)
- D. Schrank - Maintenance Off. (41)
- M. Anderson - CR/SS Office (51, 56)
- L. Renier-Hicks – GB-D2 Nuclear (84)
- J. Mueller - TSC (50)
- C. Long - RAF (53)
- C. Long - SBF/EMT (54)
- C. Long - RPO (55)

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- C. Long - RAF/RPO (106, 107)
- C. Long - SBF/ENV (108, 109)
- C. Long - SBF/EM Team (110, 111, 111A)
- C. Long – Aurora Medical Center (118, 119)
- W. Flint - Cold Chem/HR Sample Room (113)
- N. Deda - SBF/SEC (114)
- M. Anderson - CR/Communicator (116)(Partial Distribution)
- Simulator/Communicator (117)
- J. Fletcher - Security (121)
- N. Deda - Security Building (120)
- K. Evers (125)
- 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
 September 12, 2000**

Please follow the directions listed below. If you have any questions regarding changes made to the EIPs, please contact Dave Seebart at ext. 8719. If you are a controlled copy holder (see cover page), return this page to Diane Fencl by October 12, 2000, SIGNED AND DATED to serve as a record of revision.

EPIP Index, dated 09-12-2000.

DELETE		INSERT	
PROCEDURE	REV.	PROCEDURE	REV.
EP-ENV-4B	U	EPIP-ENV-04B	V
EP-ENV-4C	U	EPIP-ENV-04C	V
EP-ENV-4D	L	EPIP-ENV-04D	M
EP-OSF-3	M	EPIP-OSF-03	N
EPIP-OSF-04	C	EPIP-OSF-04	D
EPIP-APPX-A-2	BG	EPIP-APPX-A-2	BH
EPIP-APPX-A-3	BI	EPIP-APPX-A-3	BJ
EPIP Form OSF 3	A	Form EPIPF-OSF-03-01	B

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

SIGNATURE DATE

Please return this sheet to *DIANE FENCL*.


 Diane Fencl

Enclosure

EMERGENCY PLAN IMPLEMENTING PROCEDURES

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PROC. NO.	TITLE	REV.	DATE
EP-AD			
EPIP-AD-01	Personnel Response to the Plant Emergency Siren	F	03-28-2000
EPIP-AD-02	Emergency Class Determination	Z	03-07-2000
EPIP-AD-03	KNPP Response to an Unusual Event	AA	04-18-2000
EPIP-AD-04	KNPP Response to Alert or Higher	AB	04-18-2000
EP-AD-5	Site Emergency	Deleted	04-27-87
EPIP-AD-05	Emergency Response Organization Shift Relief Guideline	B	08-29-2000
EP-AD-6	General Emergency	Deleted	04-24-87
EPIP-AD-07	Initial Emergency Notifications	AK	02-01-2000
EP-AD-8	Notification of Alert or Higher	Deleted	02-26-96
EP-AD-9	Notification of Site Emergency	Deleted	04-27-87
EP-AD-10	Notification of General Emergency	Deleted	04-27-87
EP-AD-11	Emergency Radiation Controls	P	08-10-99
EP-AD-12	Personnel Assembly and Accountability	Deleted	03-26-94
EP-AD-13	Personnel Evacuation	Deleted	04-25-94
EP-AD-13A	Limited Area Evacuation	Deleted	03-01-83
EP-AD-13B	Emergency Assembly/Evacuation	Deleted	03-01-83
EP-AD-13C	Site Evacuation	Deleted	03-01-83
EP-AD-14	Search and Rescue	Deleted	05-25-94
EPIP-AD-15	Recovery Planning and Termination	N	08-29-2000
EP-AD-16	Occupational Injuries or Vehicle Accidents During Emergencies	Deleted	03-14-97
EP-AD-17	Communications	Deleted	03-05-84
EPIP-AD-18	Potassium Iodide Distribution	N	06-01-2000
EP-AD-19	Protective Action Guidelines	O	06-23-98
EP-ENV			
EP-ENV-1	Environmental Monitoring Group Organization and Responsibilities	T	02-23-99
EPIP-ENV-02	Environmental Monitoring Team Activation	W	06-15-2000

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EP-ENV-3A	Environmental Protection Director Actions and Directives	Deleted	09-26-84
EP-ENV-3B	EM Team Actions	Deleted	09-26-84
EPIP-ENV-03C	Dose Projection Using RASCAL Version 2.2 Software	U	02-16-2000
EP-ENV-3D	Revision and Control of ISODOSE II	Deleted	02-14-95
EP-ENV-3E	Manual Determination of X/Q	Deleted	04-24-87
EP-ENV-3F	Manual Determination of X/Q (Green Bay Meteorological Data)	Deleted	05-30-86
EP-ENV-3G	Manual Dose Projection Calculation	Deleted	06-02-89
EP-ENV-3H	Protective Action Recommendations	Deleted	04-13-90
EPIP-ENV-04A	Portable Survey Instrument Use	S	06-15-2000
EPIP-ENV-04B	Air Sampling and Analysis	V	09-12-2000
EP-ENV-4C	Environmental Monitoring Teams	Deleted	04-13-90
EPIP-ENV-04C	Ground Deposition Sampling and Analysis	V	09-12-2000
EPIP-ENV-04D	Plume Tracking for Environmental Monitoring Teams	M	09-12-2000
EP-ENV-5A	LCS-1 Operation	Deleted	04-14-86
EP-ENV-5B	MS-3 Operation	Deleted	04-14-86
EP-ENV-5C	SAM II Operation	Deleted	04-14-86
EP-ENV-5D	PAC-4G (Alpha Counter) Operation	Deleted	04-14-86
EP-ENV-5E	Reuter-Stokes Operation	Deleted	08-27-85
EP-ENV-6	Data Analysis, Dose Projections and Protective Action Recommendations	Deleted	12-21-81
EP-ENV-6	Alternate Sample Analysis and Relocation of EM Team	Deleted	04-14-86
EP-ENV-6A	Relocation of Site Access Facility (Habitability)	Deleted	03-23-84
EP-ENV-6B	SAF Environmental Sample Analysis Relocation	Deleted	03-23-84
EP-ENV-7	Site Access Facility Communications	Deleted	09-26-84
EP-ENV-8	Total Population Dose Estimate Calculations	Deleted	04-14-86

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EP-EOF-2	Emergency Operations Facility (EOF) Activation	W	08-10-99
EPIP-EOF-03	Corporate Action for Unusual Event	Z	06-01-2000
EPIP-EOF-04	Corporate Action for Alert or Higher	AF	06-01-2000
EP-EOF-5	Corporate Staff Action for Site Emergency	Deleted	04-24-87
EP-EOF-6	Corporate Staff Action for General Emergency	Deleted	04-24-87
EP-EOF-7	Notification of Unusual Event	Deleted	04-06-94
EP-EOF-8	Relocation of EOF	Deleted	03-01-83
EP-EOF-8	Continuing Emergency Notifications	R	08-31-99
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	T	06-01-2000
EP-EOF-12	Media Center/Emergency Operation Facility/Joint Public Information Center Security	N	08-10-99
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	N	09-12-2000
EP-OSF-4	Operational Support Facility Communications	Deleted	04-24-87
EPIP-OSF-04	Search and Rescue	D	09-12-2000

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EP-RET-2A	RPO - RAF Activation	Q	07-27-99
EP-RET-2B	Gaseous Effluent Sample and Analysis	Q	03-03-98
EP-RET-2C	Containment Air Sampling and Analysis	Deleted	03-01-83
EP-RET-2D	Emergency Radiation Entry Controls and Implementation	L	07-27-99
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
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
EP-RET-4	SBF Activation	P	07-27-99
EP-RET-4A	EOF Radiological Monitoring	Deleted	03-10-83
EP-RET-4A	SBF Operation/Relocation	C	07-27-99
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	G	07-18-2000
EP-RET-5A	Plume Projection	Deleted	04-27-87
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EPIP-RET-08	Contamination Control of the Aurora Medical Center	O	06-15-2000
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	U	03-28-2000
EP-SEC-2A	Manual Activation of Emergency Sirens	Deleted	04-16-82
EPIP-SEC-03	Personnel Assembly and Accountability	X	03-28-2000
EPIP-SEC-04	Security Force Actions for Dosimetry Issue	O	02-16-2000
EP-SEC-5	Security Force Response to the EOF	Deleted	07-28-88
EPIP-SEC-05	Personnel Evacuation	E	02-16-2000
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EPIP-TSC-02	Technical Support Center Activation	R	07-18-2000
EP-TSC-3	Plant Status Procedure	T	07-21-98
EPIP-TSC-04	Emergency Physical Changes, Major Equipment Repair	L	08-29-2000
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	H	03-07-2000
EPIP-TSC-08A	Calculations for Steam Release from Steam Generators	M	03-07-2000
EPIP-TSC-08B*	STMRLS Computer Program	E	03-07-2000
EP-TSC-8C*	See EP-TSC-8B	Deleted	04-16-92
* EP-TSC-8B was totally deleted; therefore, EP-TSC-8C was changed to EP-TSC-8B			

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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	I	03-07-2000
EP-TSC-9C*	See EP-TSC-9B	Deleted	04-16-92
* EP-TSC-9A, Rev. D was totally deleted; therefore, EP-TSC-9B became EP-TSC-9A. EP-TSC-9B was previously EP-TSC-9C.			
EPIP-TSC-10	Technical Support for IPEOPs	H	07-18-2000

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APPX-A-6	EP-FIG-005		Floor Plan - Site Boundary Facility	ORIG	03-03-98
APPX-A-6	EP-FIG-008		Floor Plan - Radiological Analysis Facility	ORIG	03-03-98
EP-EOF-12 Form EOF 2.1	EP-FIG-009		Floor Plan - Division Office Building (2nd Floor)	A	08-10-99
APPX-A-6	EP-FIG-012		Floor Plan - State/County Work Area (D2-1)	B	09-21-99
APPX-A-6	EP-FIG-013		Floor Plan - NRC Work Area (D2-4)	ORIG	03-03-98
EP-AD-19	EP-FIG-014		Population Distribution by Geographical Sub-Areas	ORIG	06-23-98
APPX-A-6	EP-FIG-022		Floor Plan - EOF	A	08-10-99
EP-EOF-12	EP-FIG-024		Map - Location of JPIC, MBC, GOB, DOB, etc.	ORIG	08-04-98
EP-SEC-5	EP-FIG-026		Site Map	A	07-21-98
APPX-A-6	EP-FIG-034		Floor Plan - Media Briefing Center	Deleted	08-04-98
EP-EOF-12 APPX-A-6	EP-FIG-035		Floor Plan - G.B. Office Building (1st Floor)	B	08-10-99
APPX-A-6	EP-FIG-037		Floor Plan - Corporate Response Center	Deleted	08-04-98
APPX-A-6	EP-FIG-038		Floor Plan - JPIC	Deleted	08-04-98
EP-OSF-2	EP-FIG-039		High Priority Work	ORIG	07-08-98
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APPX-A-6	EP-FIG-043		JPIC - Federal Work Area	ORIG	08-04-98
APPX-A-6	EP-FIG-044		JPIC - State and County Work Area	ORIG	08-04-98
APPX-A-6	EP-FIG-045		JPIC - Utility Work Area	ORIG	08-04-98
RET-08	EP-FIG-046	RET-08-01	Aurora Medical Center Location	A	06-15-2000

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APPX-A-1	Communication System Description	AF	08-04-98
EPIP-APPX-A-2	Response Personnel Call List	BH	09-12-2000
EPIP-APPX-A-3	Off-Site Telephone Numbers	BJ	09-12-2000
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AD 7.2	State Call-Back - Question Guideline	B	04-16-96
AD 11.1	Emergency Radiation Work Permit	F	04-16-96
EP-ENV			
ENV 1.1	Environmental Dispatch Area Activation Checklist	C	11-25-97
ENV 1.2	EMT Status	A	09-03-96
ENV 1.3	Meteorological and Plant Status Data	A	09-03-96
ENV 1.4	EMT Orders/Field Data	A	09-03-96
ENV-02-01	EMT Activation Checklist	M	06-15-2000
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EOF 4.2	Telephone Communications Log Sheet	ORIG	04-16-96
EOF 8.3	Fax for Emergency Declaration or Status Updates	F	09-21-99
EOF 8.5	Plant Emergency Status Report	ORIG	02-21-95
EOF 8.6	Radiological Status Report	C	03-14-97
EOF 11.2	Operating Status	E	02-14-95
EOF 11.3	Environmental Status Board	E	07-31-95
EOF 12.1	I.D. Badge Registration Form	F	08-04-98
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
EP-RET			
RET 2A.2	Emergency Sample Worksheet	D	04-16-96
RET 2B.1	Containment Stack Release (Grab Sample)	C	04-16-96
RET 2B.2	Auxiliary Building Stack (Grab Sample)	C	04-16-96

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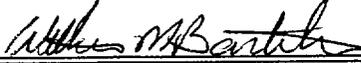
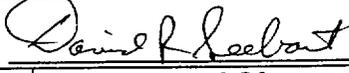
FORM EPIPF	TITLE	REV.	DATE
RET 2B.3	Auxiliary Building Stack (Sping Reading)	C	04-16-96
RET 2B.4	Containment Stack (Sping Reading)	B	04-16-96
RET 2B.5	Steam Release	C	04-16-96
RET 2B.6	Field Reading (Grab Sample)	A	04-16-96
RET 4	SAM-II Counting Equipment Worksheet	D	04-16-96
RET 8.3	Hospital Survey 1	E	07-25-97
RET 8.4	Hospital Survey 2	Deleted	07-25-97
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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
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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
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TSC 2.2	TSC Ventilation Checklist	H	04-01-99
TSC 2.3	Emergency Response Data System (ERDS) Link Initiation Checklist	F	04-01-99
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TSC 3.1	Plant System Status	K	02-14-95
TSC 3.2	Plant Equipment Status	K	08-12-97
TSC 3.3	Environmental Status Board	I	04-16-96
TSC 3.4	Radiation Monitors	G	02-14-95
TSC-04-01	Emergency Physical Change Request	F	08-29-2000
TSC-04-02	Emergency Physical Change Safety Review	F	08-29-2000

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TSC-04-03	Emergency Physical Change Index	F	08-29-2000
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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 <i>Emergency Plan Implementing Procedure</i>		No.	EPIP-ENV-04B	Rev.	V
		Title	Air Sampling and Analysis		
		Date	SEP 12 2000	Page 1 of 10	
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 Environmental Monitoring Teams (EMTs) for collecting and analyzing air samples during a declared plant emergency.

2.0 General Notes

- 2.1 The EMTs will collect and analyze air samples in accordance with this procedure when directed.

3.0 Precautions and Limitations

- 3.1 Care must be taken during sample acquisition to prevent sample cross contamination.
- 3.2 To keep personnel exposure ALARA, the air sampler may be left at the sample location to collect the air sample while the EMT waits in a low dose area.
- 3.3 EMTs should not enter areas where projected or measured external radiation dose rates exceed 1 R/hr without specific direction from the Environmental Protection Director (EPD) or Radiological Protection Director (RPD).

4.0 Initial Conditions

- 4.1 This procedure is used during a declared plant emergency by the EMTs when the teams are directed to collect and/or analyze environmental air samples.

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No. EPIP-ENV-04B	Rev. V
	Title Air Sampling and Analysis	
	Date SEP 12 2000	Page 2 of 10

5.0 Procedure

5.1 Prepare for Air Sample Collection

Note

Whenever practical, perform steps 5.1.1 and 5.1.2 prior to going to the sample location.

- 5.1.1 Obtain a 2-inch (Gelman) filter paper for particulates, a silver zeolite cartridge for iodine, and a marinelli beaker for noble gas samples.
- 5.1.2 Prepare the air sampler for sample collection.

Note

The air samplers are stored in a "ready configuration," meaning steps a through e are complete. Start with step f. Steps a through f are included in case complete disassembly and reassembly are necessary.

- a. Attach the blue cartridge housing (large diameter threaded end) to the air sampler inlet.
- b. Attach one of the gold filter housings to the blue cartridge housing.
- c. Attach the gold coupler to the gold filter housing.
- d. Attach one end of a tygon tube to the gold coupler and the other end to the outlet port of the marinelli beaker.
- e. Attach one end of a second tygon tube to the inlet port of the marinelli beaker and the other end to the blue cartridge housing (small gold diameter threaded end).
- f. Verify that the inlet and outlet stop-cocks on the marinelli beaker are fully open (parallel to flow).
- g. Insert a silver zeolite cartridge into the blue cartridge housing with the arrow on the cartridge pointing in the direction of air flow.
 - 1. IF an air gap exists between the silver zeolite cartridge and the blue cartridge housing, THEN place a cartridge seal ring around the silver zeolite cartridge.
- h. Attach the second gold filter housing to the blue cartridge housing.
- i. With a pen, mark gently an X on one side of a particulate filter.
- j. Insert the particulate filter into the second gold filter housing over the vents with the marked side X facing out, ensuring that the filter is placed into the filter housing side recessed to accept it.

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- k. Attach the gold filter retaining ring to the gold filter housing.
- l. Verify that the cartridge and filter housings are sealed tightly so that no air will bypass it during sampling.

5.2 Collect an Air Sample

Note

Air samples are normally collected at locations on the plume centerline. Plume centerline is located at the point where the highest gamma radiation levels are observed while traversing the plume.

- 5.2.1 Drive to the air sample location.
- 5.2.2 Measure the gamma radiation levels (dose rates) using the ERM-2 (detector extended outside of vehicle) while en route to the sample location.

Note

Do not collect an air sample at a location where submersion in the plume is not verified unless specifically instructed to take such action by the Environmental Monitoring Team Coordinator (EMTCd).

- 5.2.3 Verify submersion in the plume by determining the corrected beta radiation level at the sample location.
 - a. Determine the gamma level.
 1. Hold the detector, with the beta window closed, approximately 1 meter above the ground.
 - b. Determine the corrected beta radiation level.
 1. Open the beta window by sliding the rubber sleeve toward the cable end of the detector.
 2. With the beta window open, hold the survey detector approximately 1 meter above ground to determine the beta/gamma reading.
 3. Subtract the reading taken in step 5.2.3.a from the reading taken in step 5.2.3.b.2 to obtain the uncorrected beta reading.
(Uncorrected beta reading = beta/gamma reading - gamma reading)
 4. Multiply the uncorrected beta reading obtained in step 5.2.3.b.3 by the beta correction factor (BCF) listed on the instrument calibration sticker to obtain the correct beta radiation level.
(Corrected beta radiation level = uncorrected beta reading x BCF)
 - c. IF step 5.2.3.b.4 above results in a positive (greater than zero) corrected beta radiation level, THEN submersion in the plume is verified.

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5.2.4 Record date and time, sample location (grid coordinates), sample type and gamma radiation level (dose rate) on Form EPIPF-ENV-01-04, EMT Orders/Field Data or on Attachment A of EPIP-ENV-04D, EMT Standing Order SO-1.

5.2.5 Operate the air sampler to collect an air sample.

- a. Verify the number listed on the instrument calibration sticker for particulate, iodine, and noble gas samples is dialed in on the air sampler thumbwheel switches.
- b. Place the **ON/OFF** power switch in the **ON** position (toggle switch).
- c. Start the air sampler by pressing the **START** button (black).
- d. Record the sample collection start time on a radioactive sample tag.

Note

The air sampler will automatically shut off when 300 liters of air sample is collected.

- e. WHEN the air sampler shuts off, then fully close both the inlet and outlet stop-cocks to the marinelli beaker (perpendicular to flow).
- f. Record the sample collection end time on the radioactive sample tag.
- g. Record the number from the air sampler LED readout on the radioactive sample tag.
- h. Place the air sampling equipment in a poly bag and place in the EMT vehicle.

5.2.6 Go to a location with background gamma radiation levels (outside the plume) prior to performing sample analysis or labeling and bagging samples (steps 5.3 and 5.4).

5.2.7 IF directed by the EMTCd, THEN collect an alternate gross air grab sample.

- a. Don a clean pair of rubber gloves.
- b. Obtain a water-filled one liter bottle from the EMT kit.
- c. Remove the cap and invert the bottle.

Note

Maintain the bottle inverted until the cap is replaced.

- d. Allow the water to empty onto the ground.
- e. Recap the bottle tightly.
- f. Place the bottle in clean poly bag.
- g. Proceed to a location with background gamma radiation levels.

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- h. Complete the radioactive sample tag with the following information:
 - Sample location (to the nearest one-half of a grid coordinate)
 - General area dose rate (mR/hr) at sample location
 - Type of sample (noble gas)
 - Date of sample
 - Time of sample
 - Initials of individual completing the sample tag
- i. Place the radioactive sample tag into the poly bag with the one liter bottle.
- j. Seal the bag.
- k. Using the ERM-2, perform an on-contact gamma radiation dose rate survey of the bag.
- l. Label the bag with the on-contact gamma radiation dose rate.
- m. Deliver the air sample to the location specified by the EMTCD.

5.3 Analyze an Air Sample

Note

Analyze the sample only when located in an area with background gamma radiation levels (outside the plume). Don a clean pair of rubber gloves prior to handling samples.

5.3.1 Count a silver zeolite cartridge (I-131 sample).

- a. Using EPIP-ENV-04A, prepare the ESP-2 with the SPA-9 "I-131" detector for a silver zeolite cartridge sample count.
- b. Place the SPA-9 detector into the portable shield.
- c. Press the **RESET** button to perform a one minute background count.

Note

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

- d. Record the results of step 5.3.1.c above as background (BKGD) I-131 $\mu\text{Ci/cc}$.
- e. Loosen the thumb screw to remove the SPA-9 detector from the portable shield.
- f. Place the silver zeolite cartridge sample (with the arrow pointing downward) into the portable shield.

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- g. Place the SPA-9 detector into the shield on top of the silver zeolite cartridge sample.
- h. Press the **RESET** button to perform a one minute sample count.

Note

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

- i. Record the results of step 5.3.1.h above as gross I-131 $\mu\text{Ci/cc}$.
- j. Press the **ON/OFF** button to turn off the instrument.
- k. Disconnect the SPA-9 detector from the instrument.
- l. Determine the net I-131 $\mu\text{Ci/cc}$:
(Net I-131 $\mu\text{Ci/cc}$ = gross I-131 $\mu\text{Ci/cc}$ - BKGD I-131 $\mu\text{Ci/cc}$)
- m. Record the net I-131 $\mu\text{Ci/cc}$ on Form EPIPF-ENV-01-04, EMT Orders/Field Data.
- n. Label and bag the silver zeolite cartridge sample according to step 5.4 of this procedure.

5.3.2 Count a particulate filter (particulate sample).

- a. Using EPIP-ENV-04A, prepare the ESP-2 with the HP-260 "PART" detector for counting particulate filters.
- b. Hold the HP-260 detector in the air.
- c. Press **RESET** button to perform a one minute background count.

Note

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

- d. Record the results from step 5.3.2.c above as background (BKGD) particulate $\mu\text{Ci/cc}$.
- e. Place the particulate filter sample on a clean flat surface with the X-marked side up.

Note

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

- f. Place the HP-260 detector directly on contact with the particulate filter sample.

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- g. Press the **RESET** button to perform a one minute sample count.

Note

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

- h. Record the results of step 5.3.2.g above as gross particulate $\mu\text{Ci/cc}$.
- i. Press the **ON/OFF** button to turn off the instrument.
- j. Disconnect the HP-260 detector from the instrument.
- k. Determine the net particulate $\mu\text{Ci/cc}$:
(Net particulate $\mu\text{Ci/cc}$ = gross particulate $\mu\text{Ci/cc}$ - BKGD particulate $\mu\text{Ci/cc}$)
- l. Record the net particulate $\mu\text{Ci/cc}$ on Form EPIPF-ENV-01-04, EMT Orders/Field Data.
- m. Label and bag the particulate filter sample according to step 5.4 of this procedure.

5.3.3 Analyze a marinelli beaker noble gas sample.

- a. Using EPIP-ENV-04A, prepare the ESP-2 with the HP-260 "GAS" detector for counting marinelli beaker gas samples.
- b. Hold the HP-260 detector in the air.
- c. Press **RESET** to perform a one minute background count.

Note

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

- d. Record the results as background (BKGD) noble gas $\mu\text{Ci/cc}$.
- e. Place the HP-260 detector inside the deep well portion of the inverted marinelli beaker gas sample with the detector window facing into the large volume of the beaker.
- f. Press **RESET** to perform a one minute sample count.

Note

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

- g. Record the results of step 5.3.3.f above as gross noble gas $\mu\text{Ci/cc}$.
- h. Press the **ON/OFF** button to turn off the instrument.
- i. Disconnect the HP-260 detector from the instrument.

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- j. Determine the net noble gas $\mu\text{Ci/cc}$:
(Net noble gas $\mu\text{Ci/cc}$ = gross noble gas $\mu\text{Ci/cc}$ - BKGD noble gas $\mu\text{Ci/cc}$)
- k. Record the net noble gas $\mu\text{Ci/cc}$ on Form EPIPF-ENV-01-04, EMT Orders/Field Data.
- l. Label and bag the marinelli beaker gas sample according to step 5.4 of this procedure.

5.4 Label and Bag Air Samples

Note

Label and bag the air samples when you are in a location with background gamma radiation levels (outside the plume) and use a clean pair of gloves.

- 5.4.1 Place the particulate filter sample in a small poly bag.
- 5.4.2 Place the silver zeolite cartridge sample in the same poly bag with the particular filter.
- 5.4.3 Complete a radioactive sample tag with the following information:
 - Sample location (to the nearest one-half of a grid coordinate)
 - General area dose rate (mR/hr) at sample location
 - Type of sample(s) (iodine, particulate, and noble gas)
 - Date
 - Time sample started
 - Time sample ended
 - Flow rate of air sampler (from air sampler calibration sticker)
 - Initials of individual completing the sample tag
- 5.4.4 Place the radioactive sample tag in the poly bag with the particulate filter sample and silver zeolite cartridge sample.
- 5.4.5 Seal the poly bag.
- 5.4.6 Place the bag in the deep well of the marinelli beaker noble gas sample.
- 5.4.7 Place the bagged particulate filter sample and silver zeolite cartridge sample along with the marinelli beaker noble gas sample into a larger clean poly bag.
- 5.4.8 Seal the outermost poly bag.
- 5.4.9 Using the ERM-2, perform an on-contact gamma radiation dose rate survey of the outermost bag.

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5.4.10 Label the outermost bag with the on-contact gamma radiation dose rate.

5.5 Verify that the following information is recorded for all air sample analysis results on Form EPIPF-ENV-01-04, EMT Orders/Field Data:

- Sample date and time
- Sample location (to the nearest one-half of a grid coordinate)
- Sample type (iodine, particulate, noble gas, or dose rate)
- Readings (general area dose rate in mR/hr or net sample analysis results in $\mu\text{Ci/cc}$)

5.6 Report all air sample analysis results to the EMTCd via fax, telephone, or radio using Form EPIPF-ENV-01-04, EMT Orders/Field Data.

5.7 Unless otherwise directed, deliver the air samples to the KNPP Security Building.

5.8 While you are en route, notify the RPO/RAF via radio or cellular telephone that air samples will be delivered and estimated time of air sample delivery.

6.0 Final Conditions

6.1 This procedure is complete when all orders (EMT Standing Order SO-1, Attachment A of EPIP-ENV-04D, or EMT Orders/Field Data, Form EPIPF-ENV-01-04) requiring air sampling have been completed, suspended, or terminated, the results have been reported to the EMTCd, and all air samples have been delivered.

7.0 References

- 7.1 EPIP-ENV-04A, Portable Survey Instrument Use
- 7.2 EPIP-ENV-04D, Plume Tracking for Environmental Monitoring Teams
- 7.3 HP-06.043, Battery Powered Air Sampler, Model H-810-B2

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8.0 Records

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

8.1.1 QA Records

- EMT Orders/Field Data, Form EPIPF-ENV-01-04
- EMT Standing Order SO-1, Attachment A of EPIP-ENV-04D

8.1.2 Non-QA Records

- Radioactive Sample Tags

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Reviewed By <i>Edith M. Burtch</i>	Approved By <i>David R. Seibert</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 performing ground deposition sampling and analysis during a declared plant emergency.

2.0 General Notes

- 2.1 The Environmental Monitoring Teams (EMTs) will collect and analyze ground deposition samples in accordance with this procedure when directed.
- 2.2 Environmental Inc. (Midwest Lab.) (Previously Teledyne) (847-564-0700) will be contacted for more detailed soil/vegetation/water/snow samples.

3.0 Precautions and Limitations

- 3.1 Wear rubber gloves while collecting all samples listed below and change your gloves frequently to prevent sample cross contamination.
- 3.2 Do not wrap, in plastic, the detector of any instrument that can be used to measure beta radiation (i.e., ERM-2, ESP-2, and ASP-1). Wrapping the detector in plastic during operation may shield beta radiation. Instruments and their detectors may be placed in a plastic bag to prevent contamination while being transported.
- 3.3 EMTs should not enter areas where projected or measured external radiation dose rates exceed 1 R/hr without specific direction from the Environmental Protection Director (EPD) or Radiological Protection Director (RPD).
- 3.4 Each instrument and its attached probe have been calibrated as a set. DO NOT interchange instruments and probes unless authorized by the Radiation Protection Group. Interchanging instruments and probes invalidates the instrument/probe calibration.

4.0 Initial Conditions

- 4.1 This procedure is to be used during a declared plant emergency by the EMTs when the teams are directed to collect and/or analyze ground deposition samples.

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5.0 Procedure

5.1 Ground Deposition Screening Techniques

Note

Background readings on roads and in most fields will range from 10 to 150 CPM. Therefore, 300 CPM was selected as a reasonable action level.

- 5.1.1 IF directed to a specific sample location, THEN drive to that sample location.
- 5.1.2 IF directed to determine the presence of ground deposition, THEN go to EPIP-ENV-04A, step 5.6.7.
- 5.1.3 Measure the gamma radiation level (dose rate) using the ERM-2 (probe extended outside of vehicle) while en route to the sample location.
- 5.1.4 Record the dose rate, time, and sample location on Form EPIP-ENV-01-04, EMT Orders/Field Data.
- 5.1.5 Select a representative surface from which a smear sample could be obtained (i.e., road pavement or other horizontal surface).
- 5.1.6 Perform a survey of the surface using an ASP-1 with the HP-260 probe.
 - a. Place the **FAST/SLOW** instrument response switch to the **FAST** position.
 - b. Hold the detector within ½-inch from the surface to be surveyed.
 - c. Move the detector over the surface to be surveyed at a rate of approximately 2 inches per second.
 - d. Continuously monitor the meter reading and adjust the selector switch multiplication factor so that the meter reads approximately 50% of full scale.
 - e. Multiply the meter reading by the selected multiplication factor to determine the contamination level in counts per minute (CPM).
 - f. IF the reading obtained in step 5.1.6.e above is 300 CPM or greater, THEN perform step 5.2 of this procedure.
 - g. IF the meter reading obtained in step 5.1.6.e above is less than 300 CPM, THEN go to the next sample location (if any) and repeat step 5.1 of this procedure.

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5.2 Collect Ground Deposition Samples

5.2.1 Collect a smear sample from the same surface measured in step 5.1.6.f, Ground Deposition Screening.

Note

Put on a clean pair of rubber gloves prior to handling samples.

- a. Obtain cloth smear disc (NU-CON).
- b. Record the following information on the NU-CON cloth smear.
 1. Date of sample
 2. Time of sample
 3. Location of sample
 4. Technician (name of individual taking sample)
- c. Wipe a 4-inch square or 18-inch S-shaped area with the cloth smear disc.
- d. Fold the smear holding paper in half so that the cloth smear disc is folded onto itself.
- e. IF directed, THEN analyze smear per step 5.3 below.
- f. Label and bag smear per step 5.4 below.

5.3 Analyze Ground Deposition Samples

5.3.1 IF directed, THEN determine the activity (in disintegrations per minute or DPM) of the ground deposition cloth smear disc sample using an ASP-1 with the HP-260 probe.

Note

Count the sample only when located in an area with background gamma radiation levels (outside the plume). Don a clean pair of rubber gloves prior to handling samples.

- a. Determine the background CPM.
 1. Hold the HP-260 probe in the air.
 2. Record the results of step 5.3.1.a.1 above as background (BKGD) CPM.
- b. Determine the gross sample CPM.
 1. Place the HP-260 probe directly on contact with the cloth smear disc sample (small raised bumps on the detector will prevent contamination of the detector).
 2. Record the results of step 5.3.1.b.1 above as gross sample CPM.

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- c. Determine the net sample CPM.
 1. Subtract the background CPM from step 5.3.1.a.2 above from the cloth smear disc gross sample CPM from step 5.3.1.b.2.
(Net sample CPM = smear sample CPM - background CPM)
- d. Determine the net sample DPM.
 1. Multiply the net CPM obtained in step 5.3.1.c.1 above by the efficiency factor (EF) listed on the ASP-1 instrument calibration sticker.
(Net sample DPM = net sample CPM x EF)
- e. Record results, from step 5.3.1.d above, as DPM/100 cm² or DPM/smear if < 100 cm² area was surveyed on Form EPIPF-ENV-01-04, EMT Orders/Field Data.

5.3.2 Verify that the following information is recorded for all ground deposition samples on Form EPIPF-ENV-01-04, EMT Orders/Field Data:

- Sample date and time
- Sample location (to the nearest one-half of a grid coordinate)
- Sample type (ground deposition or dose rate)
- Readings (sample results in DPM/100 cm², DPM/smear, or mR/hr)

5.3.3 Report all ground deposition sample analysis results to the Environmental Monitoring Team Coordinator (EMTCd) via fax, telephone, or radio using Form EPIPF-ENV-01-04, EMT Orders/Field Data.

5.4 Label and Bag Ground Deposition Samples

5.4.1 Place each smear sample in a clean poly bag.

5.4.2 Complete the radioactive sample tag.

Note

All labels or tags shall contain the following information:

- Sample location (to the nearest one-half of a grid coordinate)
- General area dose rate (mR/hr) at the sample location
- Type of sample (ground deposition)
- Date
- Time sample taken
- Initials of the individual completing the sample tag

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5.4.3 Place the radioactive sample tag in the bag along with the smear disc.

5.4.4 Seal the bag.

5.4.5 Using the ERM-2, perform an on-contact gamma radiation dose rate survey of the bag.

5.4.6 Label the bag with the on-contact gamma radiation dose rate.

5.4.7 Unless otherwise directed, deliver the ground deposition samples to the KNPP Security Building.

5.4.8 While you are en route, notify the RPO/RAF via radio or cellular telephone that the ground deposition samples will be delivered and estimated time of ground deposition sample delivery.

5.5 IF final conditions as stated in step 6.1 have not been met, THEN return to step 5.1 of this procedure.

6.0 Final Conditions

6.1 This procedure is complete when all orders (EMT Orders/Field Data, Form EPIPF-ENV-01-04) requiring ground deposition sampling have been completed, suspended, or terminated, the results have been reported to the EMTCD, and all samples have been delivered.

7.0 References

7.1 EPIP-ENV-04A, Portable Survey Instrument Use

7.2 EPIP-ENV-04D, Plume Tracking for Environmental Monitoring Teams

7.3 Teledyne Isotopes Letter of Agreement

8.0 Records

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

8.1.1 QA Records

- EMT Orders/Field Data, Form EPIPF-ENV-01-04

8.1.2 Non-QA Records

- Radioactive Sample Tags

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Reviewed By <i>Walter Barth</i>		Approved By <i>David R. Leebart</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 tracking an airborne radiological release (plume).

2.0 General Notes

- 2.1 None

3.0 Precautions and Limitations

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

4.0 Initial Conditions

- 4.1 This procedure is used by the EMTs during a declared plant emergency when an airborne radiological release (plume) is imminent or in progress.
- 4.2 For events that do not involve an airborne radiological release, off-site monitoring may be required to confirm that a release (above normal limits) is not occurring.
- 4.3 EMT activation per EPIP-ENV-02 is complete.

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5.0 Procedure

5.1 Actions for the EMTs

- 5.1.1 Obtain meteorological and plant conditions from the Environmental Monitoring Team Coordinator (EMTCd) or the RPO/RAF using Form EPIPF-ENV-01-03, Meteorological and Plant Status Data.
- 5.1.2 Using wind direction as the projected plume centerline and the projected plume boundaries (based on the stability class) as the lateral edges, draw the projected plume on an Emergency Planning Zone (EPZ) grid map.

!! Caution !!

To Prevent Injury or Death

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

Note

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

- 5.1.3 Implement EMT Standing Order SO-1, SO-2, or SO-3 (Attachments A, B, or C) or other orders as directed.
- 5.1.4 Report field data results promptly to the EMTCd or the RPO/RAF.
- a. Use Attachments A, B, C, or Form EPIPF-ENV-01-04, EMT Orders/Field Data, for gamma and beta radiation levels (dose rate).
 - b. Use Form EPIPF-ENV-01-04, EMT Orders/Field Data, for air sample and ground deposition sample analysis results.
- 5.1.5 WHEN an order is completed, suspended, or terminated, then request additional instructions from EMTCd or RPO/RAF.
- 5.1.6 IF final conditions as stated in step 6.1 have not been met, THEN return to step 5.1 of this procedure.

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5.2 Actions for the EMTCd

- 5.2.1 Obtain meteorological and plant conditions from the Dose Projection Calculator (DPC).
- a. Record meteorological and plant conditions information on Form EPIPF-ENV-01-03, Meteorological and Plant Status Data.
 - b. IF all of the following conditions exist, THEN the potential for a lake breeze effect exists:
 1. KNPP or Point Beach Nuclear Plant (PBNP) wind direction is between 020 and 170 degrees, AND
 2. Green Bay National Weather Service or PBNP Inland Tower wind direction is between 210 and 330 degrees, AND
 3. The time is between 0700 and 2000.
- 5.2.2 Using wind direction as the projected plume centerline and the projected plume boundaries (based on the stability class) as the lateral edges, draw the projected plume on an EPZ grid map.
- 5.2.3 Transmit information on Form EPIPF-ENV-01-03, Meteorological and Plant Status Data to the EMTs.
- 5.2.4 Report field data results from Attachments A, B, C, or Form EPIPF-ENV-01-04, EMT Orders/Field Data to the DPC and EPD for comparison with the dose projections and Protective Action Recommendations (PARs).

!! Caution !!

To Prevent Injury or Death

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

- 5.2.5 Direct the EMTs to:
- a. Implement EMT Standing Order SO-1.
 1. Locate the plume centerline in the vicinity of the site boundary by performing radiation dose rate surveys according to EPIP-ENV-04A. Report dose rate readings to the EMTCd or RPO/RAF every 15 minutes or more frequently, if directed.
 2. Collect an air sample on plume centerline according to EPIP-ENV-04B, Air Sampling and Analysis.

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3. Deliver air sample to the KNPP Security Building or alternate location, if directed.
 - b. Implement EMT Standing Order SO-2.
 1. Locate and track the leading boundary (edge of the plume by performing gamma radiation dose rate surveys according to EPIP-ENV-04A, Portable Survey Instrument Use. Report dose readings to the EMTCd or RPO/RAF every 15 minutes or more frequently, if directed.
 - c. Implement EMT Standing Order SO-3.
 1. Locate and track the lateral boundaries (edges) of the plume within 5 miles of KNPP by performing gamma radiation dose rate surveys according to EPIP-ENV-04A, Portable Survey Instrument Use. Report dose rate readings to the EMTCd or RPO/RAF every 15 minutes or more frequently, if directed.
 2. IF release is terminated or for "puff" release, THEN locate and track the trailing edge of the plume.
 - d. Verify that a lake breeze effect has not caused the plume to travel in a northern or southern direction along the lakeshore.
 - e. Record radiation dose rate field data on the EPZ grid map.
 - f. Determine the extent of ground deposition in the area of the plume "footprint" using EPIP-ENV-04C, Ground Deposition Sampling and Analysis, and EPIP-ENV-04A, Portable Survey Instrument Use.
 - g. Report ground deposition field data to the EMTCd.
- 5.2.6 IF final conditions as stated in step 6.1 have not been met, THEN return to step 5.0 of this procedure.

6.0 Final Conditions

- 6.1 This procedure is complete when all EMT orders (Form EPIP-ENV-01-04, EMT Orders/Field Data) requiring plume tracking have been completed, suspended, or terminated, the results have been reported to the EMTCd, and all samples have been delivered.

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7.0 References

- 7.1 EPIP-AD-18, Potassium Iodide Distribution
- 7.2 EPIP-ENV-04A, Portable Survey Instrument Use
- 7.3 EPIP-ENV-04B, Air Sampling and Analysis
- 7.4 EPIP-ENV-04C, Ground Deposition Sampling and Analysis
- 7.5 EPIP-ENV-02, Environmental Monitoring Team Activation

8.0 Records

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

8.1.1 QA Records

- Meteorological and Plant Status Data, Form EPIPF-ENV-01-03
- EMT Orders/Field Data, Form EPIPF-ENV-01-04
- EMT Standing Order SO-1, Attachment A
- EMT Standing Order SO-2, Attachment B
- EMT Standing Order SO-3, Attachment C
- Emergency Planning Zone (EPZ) Grid Map

8.1.2 Non-QA Records

None

EMT STANDING ORDER SO-1

Page 1 of 2

DATE/TIME: _____

TEAM (Circle One): A B C

ORDER ID: EMT STANDING ORDER SO-1

- INSTRUCTIONS:**
- (1) Locate the plume centerline in the vicinity of the site boundary by performing gamma radiation dose rate surveys according to EPIP-ENV-04A, Portable Survey Instrument Use. Report gamma radiation dose rate readings to EMTCd or RPO/RAF every 15 minutes or more frequently, if directed.
 - (2) Collect an air sample on plume centerline according to EPIP-ENV-04B, Air Sampling and Analysis.
 - (3) Deliver air sample to KNPP Security Building or alternate location, if directed.

EMT FIELD DATA

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

EMT STANDING ORDER SO-1

Page 2 of 2

DIRECTIONS FOR REPORTING FIELD DATA:

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

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

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

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

EMT STANDING ORDER SO-2

Page 1 of 2

DATE/TIME: _____

TEAM (Circle One): A B C

ORDER ID: EMT STANDING ORDER SO-2

- INSTRUCTIONS: (1) Locate and track the leading boundary (edge) of the plume by performing gamma radiation dose rate surveys according to EPIP-ENV-04A, Portable Survey Instrument Use.
- (2) Report gamma radiation dose rate readings to EMTcd or RPO/RAF every 15 minutes or more frequently, if directed.

EMT FIELD DATA

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

EMT STANDING ORDER SO-2

Page 2 of 2

DIRECTIONS FOR REPORTING FIELD DATA:

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

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

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

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

EMT STANDING ORDER SO-3

Page 1 of 2

DATE/TIME: _____

TEAM (Circle One): A B C

ORDER ID: EMT STANDING ORDER SO-3

- INSTRUCTIONS:**
- (1) Locate and track the lateral boundaries (edges) of the plume within 5 miles of KNPP by performing gamma radiation dose rate surveys according to EPIP-ENV-04A, Portable Survey Instrument Use.

 - (2) IF the release is terminated, THEN locate and track the trailing edge of the plume.

 - (3) Report gamma radiation dose rate readings to EMTCd or RPO/RAF every 15 minutes or more frequently, if directed.

EMT FIELD DATA

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

EMT STANDING ORDER SO-3

Page 2 of 2

DIRECTIONS FOR REPORTING FIELD DATA:

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

3. **SAMPLE TYPE** - Enter appropriate description.

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

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

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

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>		No.	EPIP-OSF-03	Rev.	N	
		Title	Work Requests During an Emergency			
		Date	SEP 12 2000	Page 1 of 5		
Reviewed 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 processing Work Requests (WR) in a declared Emergency condition.

2.0 General Notes

- 2.1 10CFR50.54 (x) and (y) provide that a licensee may take reasonable action that departs from a license condition or a technical specification in an emergency when this action is immediately needed to protect the public health and safety and no action consistent with license conditions and technical specifications that can provide adequate or equivalent protection is immediately apparent. This action shall be approved, as a minimum, by a licensed senior operator prior to taking the action.
- 2.2 Existing General Nuclear Procedures should be used if time and conditions permit. Once the emergency conditions are terminated or recovery operations initiated, this procedure is not applicable.

3.0 Precautions and Limitations

- 3.1 All work performed should follow the guidelines of the WPSC Safety Rules Book.
- 3.2 All work performed must have prior approval of the Shift Supervisor/Event Operations Director (EOD) prior to commencing.
- 3.3 Any changes to maintenance procedures must be approved by the Support Activities Director (SAD) and the Shift Supervisor/EOD.

4.0 Initial Conditions

- 4.1 This procedure is implemented when there is a requirement for corrective maintenance during an emergency at the Kewaunee Nuclear Power Plant.

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5.0 Procedure

5.1 OSF Coordinator shall:

- 5.1.1 Assign the appropriate Maintenance Group Leader/Supervisor (i.e., electrical, mechanical, I&C) the responsibility of preparing the work package.
- 5.1.2 Ensure that the SAD, Emergency Director (ED), EOD, and Technical Support Center Director (TSCD) understand the scope of the work and any possible effects on plant conditions and/or parameters that may occur due to the performance of this maintenance.
- 5.1.3 Immediately inform the SAD when the repair work is completed.
- 5.1.4 Retain all WRs until the emergency has been terminated or recovery operations implemented, after which all WRs will be put into the normal WR route for processing.

5.2 Maintenance Group Leaders/Supervisors shall:

- 5.2.1 Ensure problem is accurately described on WR Form.
- 5.2.2 Prepare the work package, specify work instructions and retest requirements.
- 5.2.3 Determine requirements necessary to perform job.
 - a. IF a design change is required, THEN an Emergency Physical Change (EPC) Request shall be initiated by the requesting supervisor and forwarded to the TSCD in accordance with EPIP-TSC-04 prior to starting work.
 - b. List under "Comments" section references that must be used in performing maintenance action. Add additional reference listings as necessary.
 - c. Maintain a copy of the work request.
- 5.2.4 Notify Technical Support Center staff prior to starting work for possible QC support.
- 5.2.5 Schedule the maintenance work with knowledge of the ED's priorities.

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- 5.2.6 Select the Repair Team members according to the following criteria:
- a. Team members should be knowledgeable of the plant layout.
 - b. Team members should be knowledgeable of the type maintenance to be performed.
 - c. At least one member of the team should be a Radiation Technologist when entering any of the following areas:
 1. Radiological conditions are adverse or unknown
 2. Confined space area
 3. Breathable air testing may be required
- 5.2.7 Assign a Team Coordinator.
- 5.2.8 If necessary, assign relief team members.
- 5.2.9 Brief repair teams (Form EPIPF-OSF-03-01) prior to commencing work.
- 5.2.10 Contact the Radiation Protection Group to brief repair teams on radiological conditions and potential hazards prior to commencing work.
- 5.2.11 Debrief the repair teams when work is completed (Form EPIPF-OSF-03-01).
- 5.2.12 Check to ensure maintenance actions have been performed and documented correctly.
- 5.2.13 Route the completed WR and Operational Support Facility Team Briefing, Form EPIPF-OSF-03-01, back to the OSF Coordinator.
- 5.3 **Team Coordinator** shall:
- 5.3.1 Review with the RPD the protective clothing and respiratory protection equipment necessary for team actions in radiologically controlled areas.
 - 5.3.2 Obtain Shift Supervisor's/EODs approval prior to starting work. The Shift Supervisor/EOD should maintain a copy of the work request.

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- 5.3.3 During the search and rescue effort,
- a. Monitor the radio.
 - b. If required, record radiation levels.
 - c. Minimize team members' exposure while they are conducting repair operations by using the principles of ALARA.
 - d. Maintain surveillance of the doses (DDE) team members are receiving.
 - e. Compare the dose readings to those expected.
 - f. IF exposures become significantly higher than expected, THEN report this immediately to the Radiological Protection Director (RPD) by Gai-tronics or radio.
 - g. Log all significant events including location and time of occurrence.
 - h. Inform the appropriate supervisor of all significant actions being taken by team members.

5.4 **Repair Teams shall:**

- 5.4.1 Receive a briefing from the appropriate Leader/Supervisor and Radiation Protection Group.
- 5.4.2 Follow all briefing instructions, procedural precautions, and RWP instructions.
- 5.4.3 Return to the Operational Support Facility (OSF) when the work is completed and receive a debriefing (Form EPIPF-OSF-03-01).

6.0 Final Conditions

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

7.0 References

- 7.1 NAD-08.02, Work Request/Work Order
- 7.2 EPIP-TSC-04, Emergency Physical Changes, Major Equipment Repair
- 7.3 COMTRAK 87-153
- 7.4 GNP-08.02.01, Work Request/Work Order Processing

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8.0 Records

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

8.1.1 QA Records

- Operational Support Facility Team Briefing, Form EPIPF-OSF-03-01

8.1.2 Non-QA Records

None

WISCONSIN PUBLIC SERVICE CORP.		No. EPIP-OSF-04	Rev. D
Kewaunee Nuclear Power Plant		Title Search and Rescue	
<i>Emergency Plan Implementing Procedure</i>		Date SEP 12 2000	Page 1 of 5
Reviewed By <i>William M. Bennett</i>		Approved By <i>David R. Leebert</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 search and rescue operations under the direction of the Support Activities Director (SAD) with assistance from the Radiological Protection Director (RPD).

2.0 General Notes

- 2.1 Personnel involved in search and rescue missions that may involve high radiation areas should keep in mind the concepts of time, distance, and shielding to minimize radiation exposure as much as possible.
- 2.2 Each team will have a portable radio for communications capability with the team coordinator.
- 2.3 Rescue of a victim takes precedence over fire fighting unless the fire must be suppressed to save lives or effect rescue.

3.0 Precautions and Limitations

- 3.1 The buddy system will be in effect and search and rescue team members will only be allowed to travel into a potentially dangerous or high radiation area if within direct sight and/or sound of their partner.
- 3.2 Proper radiological controls must be adhered to during search and rescue operations.

4.0 Initial Conditions

- 4.1 Upon determination that a person or persons are missing, trapped, or disabled, implement this procedure.

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No.	EPIP-OSF-04	Rev.	D
	Title	Search and Rescue		
	Date	SEP 12 2000	Page 2 of 5	

5.0 Procedure

5.1 The OSF Coordinator shall:

Note

During times when the OSF Coordinator is detained or when the area to be searched is more familiar to the RPD, the RPD may direct search and rescue operations with assistance from the SAD as available.

- 5.1.1 Use the following items to determine the most likely location of the missing person:
- a. Gai-tronics
 - b. Plant security computer
 - c. Immediate supervisor for expected work location
 - d. Plant key checkout log
- 5.1.2 Contact the RPD to discuss and plan the Search and Rescue.
- 5.1.3 Select the Search and Rescue team members according to the following criteria:
- a. Team members should be knowledgeable of the plant layout.
 - b. If possible, at least one member of the team should be a Radiation Technologist.
 - c. At least one team member shall have First Aid Training.
- 5.1.4 Assign a Team Coordinator.
- 5.1.5 Brief the Search and Rescue team (Form EPIPF-OSF-03-01).
- 5.1.6 Describe the area to be searched.
- 5.1.7 Coordinate all Search and Rescue teams so that duplication of effort is avoided, unnecessary radiation exposure does not occur, and time is utilized effectively.
- 5.1.8 WHEN search and rescue operations are completed or no longer necessary, recall all Search and Rescue teams.
- 5.1.9 Debrief all teams using Form EPIPF-OSF-03-01.
- 5.1.10 Ensure one team member trained in first aid is supplied with a first aid kit.
- 5.1.11 Review with the RPD the protective clothing and respiratory protection equipment necessary for team actions in radiologically controlled areas.

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5.1.12 Define the roles of the team members and dispatch teams to begin their search.

5.1.13 During the search and rescue effort,

- a. Monitor the radio and record radiation levels.
- b. Maintain surveillance of the doses (DDE) team members are receiving.
 1. IF exposures become significant, THEN report this immediately to the RPD.
- c. Log all significant events, including location and time of occurrence.
- d. Inform the SAD or RPD of all significant actions being taken by team members.
- e. Inform the SAD immediately upon locating missing personnel.

5.1.14 IF an ambulance is required, THEN ensure the RPD is immediately notified.

5.1.15 As each area search is completed, notify the SAD of any findings.

5.2 Search and Rescue Team Members

5.2.1 Report to a location assigned by the Team Coordinator for direction and duties.

5.2.2 Receive a briefing from the OSF Coordinator or RPD.

5.2.3 Obtain the appropriate dosimetry, protective clothing, first aid equipment, and respiratory protection equipment deemed necessary by the RPD.

Note

In-plant stretcher locations are:

633' outside elevator

649' reactor engineering cage

RPO area

Auxiliary Building - outside RAF entrance to RCA

- a. Ensure you are familiar with operation of all equipment.
 - b. Perform operational checks as appropriate.
 - c. Check equipment for physical damage.
 - d. Ensure all tools, parts, etc., needed are ready for use.
- 5.2.4 Ensure that proper directions have been obtained and are understood prior to entry.
- 5.2.5 Proceed to the search area assigned and conduct search.
- a. Use the buddy system throughout the search operation.
 - b. Minimize exposure by using the principles of ALARA.

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	Title	Search and Rescue		
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- 5.2.6 Monitor and record radiation field measurements in transit.
- 5.2.7 Maintain continuous radio contact with the OSF Coordinator.
- 5.2.8 Report noteworthy radiological/environmental conditions, periodic radiation dose (DDE) updates, and any other significant events or observations.
- 5.2.9 In the event that physical or radiological conditions are encountered that are unexpected or that change and hinder the search, obtain further instructions from the OSF Coordinator or abort the mission.
- 5.2.10 IF an injured or unconscious victim is found, THEN:
 - a. Ensure safety of rescue team members while approaching the victim, giving first aid, and/or moving the victim out of a hazardous area.
 - b. If a stretcher is required, call for assistance.
 - c. Provide first aid to the victim to the fullest extent possible without unnecessarily endangering the safety of the rescuer.
 - d. Transport or escort the individual(s) to a safe location as soon as possible.
- 5.2.11 Return to your briefing area for a debrief (Form EPIPF-OSF-03-01) at the completion of an area search.

6.0 Final Conditions

- 6.1 None

7.0 References

- 7.1 Kewaunee Nuclear Power Plant Emergency Plan
- 7.2 Code of Federal Regulations, 10CFR Part 20
- 7.3 Radiation Protection Manual and Health Physics Procedures Manual
- 7.4 EPIP-AD-11, Emergency Radiation Controls

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	Title	Search and Rescue		
	Date	SEP 12 2000	Page 5 of 5	

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

- Operational Support Facility Team Briefing, Form EPIPF-OSF-03-01

8.1.2 Non-QA Records

None

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No. EPIP-APPX-A-2	Rev. BH
	Title Response Personnel Call List	
	Date SEP 12 2000	Page 1 of 3
Reviewed By <i>William M. Bartelme</i>	Approved By <i>David R. Leebert</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 appendix provides a consolidated list of all Emergency Response Organization (ERO) members sorted three ways:
- By facility, then ERO position
 - Accountability Coordinators by Facility
 - All members alphabetically

2.0 General Notes

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

3.0 Precautions and Limitations

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

4.0 Initial Conditions

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

5.0 Procedure

- 5.1 This appendix will be updated quarterly.

6.0 Final Conditions

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

WISCONSIN PUBLIC SERVICE CORP. Kewaunee Nuclear Power Plant <i>Emergency Plan Implementing Procedure</i>	No.	EPIP-APPX-A-2	Rev.	BH
	Title	Response Personnel Call List		
	Date	SEP 12 2000	Page 2 of 3	

7.0 References

7.1 Attachments

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

7.2 EPMP-05.03, Telephone Number Quarterly Review

8.0 Records

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

8.1.1 QA Records

None

8.1.2 Non-QA Records

None

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

Name	Primary Job	Secondary Job	Work Location	Work Phone	Home Phone	Pager Ext
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**Appx-A-2 - Response Personnel Call List
(Accountability Coordinators)
EPIP Table Appx-A-2.2**

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

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

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

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

WISCONSIN PUBLIC SERVICE CORP.		No. EPIP-APPX-A-3	Rev. BJ
Kewaunee Nuclear Power Plant		Title Off-Site Telephone Numbers	
Emergency Plan Implementing Procedure		Date SEP 12 2000	Page 1 of 7
Reviewed By <i>William M. Brubaker</i>		Approved By <i>David R. Seibert</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 appendix provides lists of telephone numbers for contacting:

- Off-site agencies or organizations that may be called to respond or assist during a declared emergency at the Kewaunee Nuclear Power Plant.

2.0 General Notes

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

3.0 Precautions and Limitations

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

4.0 Initial Conditions

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

5.0 Procedure

5.1 Changes in telephone numbers which have occurred since the revision date (in header) will not be reflected in this appendix.

5.2 Changes to fax numbers preceded by an "*" should be updated in the Prairie Systems Fax Broadcast List "008." For further information, reference "WPS Public Affairs Department," Procedure 6.4.1, "Schneider Fax Broadcasting."

6.0 Final Conditions

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

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7.0 References

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

8.0 Records

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

8.1.1 QA Records

None

8.1.2 Non-QA Records

None

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

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

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

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

OPERATIONAL SUPPORT FACILITY TEAM BRIEFING

OSF Briefing

Team Members: _____ Team Coordinator/Lead Person: _____
_____ Estimated/Required Completion: _____ / _____
Date Time

Purpose of this Team:

_____ Urgency of Task	_____ WR Reviewed	_____ Procedures Required
_____ First Aid Equipment	_____ Tools Required	_____ Parts/Equipment Required
_____ Communications	_____ Expected Conditions	_____ Abort Instructions
_____ Safety Concerns		
_____ How to Account if the Emergency Alarm Sounds		

Briefed by: _____ Time: _____

Radiological Briefing

_____ Dosimetry	_____ Protective Clothing	_____ Survey Instruments
_____ Respiratory Protection Equipment	_____ Dose Limit Extensions	_____ Radiation Dose Rates
_____ Estimated Stay Time	_____ Planned Route	_____ Abort Instructions

Briefed by: _____ Time: _____

Debriefing (Use additional sheets of paper if necessary.)

Work Performed:

Problems Encountered, Observations:

Radiological Conditions:

Briefed by: _____ Time: _____ Date: _____

Upon completion of this form, file with OSF Coordinator.