

NRC-03-060

10 CFR 50, App. E

June 1, 2003

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

**KEWAUNEE NUCLEAR POWER PLANT
DOCKET 50-305
LICENSE No. DPR-43
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 (EIPs). 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.



Thomas Coutu
Site Vice-President, Kewaunee Plant

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/o attach.

A045

DOCUMENT TRANSMITTAL

KEWAUNEE NUCLEAR POWER PLANT

FROM: DIANE FENCL - KNPP

TRANSMITTAL DATE 05-29-2003

EMERGENCY PLAN IMPLEMENTING PROCEDURES TRANSMITTAL FORM

OUTSIDE AGENCY COPIES (1-20)

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S. Campion - NRC Resident Inspector (4) (receives Appx. A phone numbers)*	
S. Campion - State of Wisconsin (5)*	Jill Stern - Nuclear Management Company (12)*
S. Campion - KNPP QA Vault (NRC Letter & Memo Only) (15)*	Chuck Zoia - NRC Region III (13)*

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

J. Bennett (33)

W. Bartelme (24)

J. Ferris (13)

T. Coutu (28)

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.

NO Library - KNPP (59)
C. Sternitzky - ATF-2 (44)
M. Daron - Security Building (46)
C. Grant - EOF (81)
C. Grant - OSF (52)
LOREB - STF (62, 66, 67, 68, 70, 72, 73, 74)
STF Library (43)

Resource Center - Training (82)
D. Krall - CR/SS Office (51, 56)
C. Grant - TSC (50)
W. Galarneau - RAF (53)
W. Galarneau - SBF/EMT (54)
W. Galarneau - RPO (55)
STF (86, 87, 88)

WORKING COPIES (101-199) These copies of procedures are kept in the areas designated for use in response to an emergency.

W. Galarneau - RAF/RPO (106, 107)(Partial Distribution)
W. Galarneau - SBF/ENV (108, 109)(Partial Distribution)
W. Galarneau - SBF/EM Team (110, 111, 111A)(Partial Distribution)
W. Flint - Cold Chem/HR Sample Room (113)
S. Zutz - SBF/SEC (114)
M. Fencl - Security (121)
S. Zutz - Security Building (120)

Ops Admin. (126)
C. Grant - TSC Response Binder (Partial Distribution)
C. Grant - EOF Response Binder (Partial Distribution)
D. Krall - CR Response Binder (Partial Distribution)
K. Stangel - SCR Response Binder (Partial Distribution)
D. Krall - CR Tag Desk (Partial Distribution)
K. Stangel - SCR Tag Desk (Partial Distribution)

Originals to KNPP QA Vault

Please follow the directions when updating your EPIP Manual. **WATCH FOR DELETIONS!!!** These are controlled procedures and random checks may be made to ensure the manuals are kept up-to-date.

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

KEWAUNEE NUCLEAR POWER PLANT
REVISION OF EMERGENCY PLAN IMPLEMENTING PROCEDURES
May 29, 2003

Please follow the directions listed below.

EPIP Index, dated 05-29-2003.

REMOVE		INSERT	
PROCEDURE	REV.	PROCEDURE	REV.
Form EPIPF-AD-07-04	B	Form EPIPF-AD-07-04	C

Return a signed and dated copy of this transmittal letter, within 10 days of transmittal date, to the sender. If you have any questions or comments, please contact Jerrie Morlino at 755-6557.

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

SIGNATURE

DATE

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

Diane Fencil
Enclosure

EMERGENCY PLAN IMPLEMENTING PROCEDURES

INDEX

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EP-AD			
EPIP-AD-01	Personnel Response to the Plant Emergency Siren	K	11-26-2002
EPIP-AD-02	Emergency Class Determination	AG	05-05-2003
EPIP-AD-03	KNPP Response to an Unusual Event	AH	03-18-2003
EPIP-AD-04	KNPP Response to Alert or Higher	AM	03-18-2003
EP-AD-5	Site Emergency	Deleted	04-27-87
EPIP-AD-05	Emergency Response Organization Shift Relief Guideline	E	02-18-2003
EP-AD-6	General Emergency	Deleted	04-24-87
EPIP-AD-07	Initial Emergency Notifications	AT	03-18-2003
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	S	12-19-2002
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	P	09-12-2002
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	P	02-27-2002
EPIP-AD-19	Protective Action Guidelines	S	01-20-2003

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EPIP-AD-20	KNPP Response to a Security Threat	D	01-20-2003
EP-ENV			
EPIP-ENV-01	Environmental Monitoring Group Organization and Responsibilities	W	08-20-2002
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	W	08-20-2002
EP-ENV-3D	Revision and Control of ISODOSE II	Deleted	02-14-95
EP-ENV-3E	Manual Determination of X/Q	Deleted	04-24-87
EP-ENV-3F	Manual Determination of X/Q (Green Bay Meteorological Data)	Deleted	05-30-86
EP-ENV-3G	Manual Dose Projection Calculation	Deleted	06-02-89
EP-ENV-3H	Protective Action Recommendations	Deleted	04-13-90
EPIP-ENV-04A	Portable Survey Instrument Use	T	08-20-2002
EPIP-ENV-04B	Air Sampling and Analysis	X	08-20-2002
EP-ENV-4C	Environmental Monitoring Teams	Deleted	04-13-90
EPIP-ENV-04C	Ground Deposition Sampling and Analysis	X	08-20-2002
EPIP-ENV-04D	Plume Tracking for Environmental Monitoring Teams	O	08-20-2002
EP-ENV-5A	LCS-1 Operation	Deleted	04-14-86
EP-ENV-5B	MS-3 Operation	Deleted	04-14-86
EP-ENV-5C	SAM II Operation	Deleted	04-14-86
EP-ENV-5D	PAC-4G (Alpha Counter) Operation	Deleted	04-14-86
EP-ENV-5E	Reuter-Stokes Operation	Deleted	08-27-85

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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	AA	08-06-2002
EPIP-EOF-03	EOF Staff Action for Unusual Event	AD	01-20-2003
EPIP-EOF-04	EOF Staff Action for Alert or Higher	AK	01-20-2003
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	Z	01-28-2003
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	V	11-07-2002
EPIP-EOF-12	Media Center/Emergency Operation Facility/Joint Public Information Center Security	Q	06-20-2002

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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			
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EPIP-OSF-02	Operational Support Facility Operations	V	11-26-2002
EPIP-OSF-03	Work Orders During an Emergency	P	05-09-2002
EP-OSF-4	Operational Support Facility Communications	Deleted	04-24-87
EPIP-OSF-04	Search and Rescue	E	05-23-2002
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EP-RET-1	Radiation Emergency Team Organization	Deleted	04-16-96
EPIP-RET-02	In-Plant Radiation Emergency Team	W	04-29-2003
EPIP-RET-02A	Radiation Protection Office/Radiological Analysis Facility (RPO/RAF) Activation	U	11-07-2002
EPIP-RET-02B	Gaseous Effluent Release Path, Radioactivity, and Release Rate Determination	S	08-06-2002
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	P	02-18-2003
EPIP-RET-03A	Liquid Effluent Release Paths	L	11-29-2001
EP-RET-3B	Post-Accident Reactor Coolant Alternate Sampling Procedure	Deleted	01-25-88

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EPIP-RET-03C	Post Accident Operation of the High Radiation Sample Room	P	01-15-2002
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EP-RET-3E	Post Accident Operation of High Rad Sample Room Inline Multiported Count Cave	Deleted	08-27-85
EPIP-RET-04	SBF Activation	T	10-17-2002
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EPIP-RET-04A	SBF Operation/Relocation	Deleted	10-02-2001
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EP-RET-4C	Site Radiological Monitoring	Deleted	07-12-94
EP-RET-4D	SAM-II Operation	Deleted	07-12-94
EP-RET-5	Plume Projection	Deleted	09-26-84
EPIP-RET-05	Site Boundary Dose Rates During Controlled Plant Cooldown	H	10-09-2001
EP-RET-5A	Plume Projection	Deleted	04-27-87
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EP-RET-7	Radiological Analysis Facility/Radiation Protection Office Communications	Deleted	04-24-87
EPIP-RET-08	Contamination Control of the Aurora Medical Center	Deleted	05-23-2002
EPIP-RET-09	Post-Accident Population Dose	M	04-29-2003
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EP-SEC-1	Security Organization	Deleted	04-24-87
EPIP-SEC-02	Security Force Response to Emergencies	Y	11-14-2002
EP-SEC-2A	Manual Activation of Emergency Sirens	Deleted	04-16-82
EPIP-SEC-03	Personnel Assembly and Accountability	AG	05-20-2003
EPIP-SEC-04	Security Force Actions for Dosimetry Issue	P	10-02-2001

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EPIP-TSC-01	Technical Support Center Organization and Responsibilities	S	01-28-2003
EPIP-TSC-02	Technical Support Center Activation	U	01-20-2003
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EPIP-TSC-04	Emergency Modifications	O	04-29-2003
EP-TSC-5	Technical Support Center Communications Equipment	Deleted	04-24-87
EP-TSC-6	Assessment of Reactor Core Damage	Deleted	09-30-86
EPIP-TSC-07	RV Head Venting Time Calculation	J	06-20-2002
EPIP-TSC-08A	Calculations for Steam Release from Steam Generators	O	11-26-2002
EPIP-TSC-08B*	STMRLS Computer Program	G	06-20-2002
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
EPIP-TSC-09A*	Core Damage Assessment	K	05-05-2003
EPIP-TSC-09B*	CORE Computer Program	Deleted	05-16-2002
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	K	05-09-2002

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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	D	04-29-2003
EPIP-EOF-12	EP-FIG-024	EOF-12-02	Location of JPIC and Media Briefing Center Map	C	06-20-2002
EP-SEC-5	EP-FIG-026	SEC-05-01	KNP Site Map & Evacuation Routes	C	06-20-2002
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APPX-A-6	EP-FIG-037	---	Floor Plan - Corporate Response Center	Deleted	08-04-98
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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	C	04-29-2003
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EPIP-APPX-A-02	---	APPX-A-02-01	ERO Call Tree	Deleted	12-04-2001

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EPIP-APPX-A-03	Off-Site Telephone Numbers	Deleted	02-06-2002
EPIP-APPX-A-06	KNPP Emergency Response Facility Figures	AB	04-29-2003

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AD-07-02	State Call-Back - Question Guideline	C	11-15-2001
AD-07-03	Fax Event Notice	B	03-06-2003
AD-07-04	ERO Event Notification	C	05-29-2003
AD-11-01	Emergency Radiation Work Permit	H	12-19-2002
AD-18-01	Airborne Radioiodine Dose Accountability and Potassium Iodide Distribution	B	08-06-2002
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ENV-01-02	EMT Status	B	10-31-2000
ENV-01-03	Meteorological and Plant Status Data	C	12-14-2001
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EOF-02-02	EOF Deactivation Checklist	N	01-28-2003
EOF-04-01	SRCL Initial Action Checklist	D	01-20-2003
EOF-04-02	Telephone Communications Log Sheet	A	12-14-2001
EOF-08-03	Fax for Emergency Declaration or Status Updates	H	01-20-2003
EOF-08-05	Plant Emergency Status Report	A	11-27-2001
EOF-08-06	Radiological Status Report	E	01-20-2003
EOF-11-02	Operating Status	G	11-07-2002

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EOF-12-01	I.D. Badge Registration Form	G	10-24-2000
EP-OSF			
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OSF-03-01	Operational Support Facility Team Briefing	C	12-04-2001
EP-RET			
RET-02A-02	Emergency Sample Worksheet	E	06-05-2001
RET-02B-01	Containment Stack Release (Grab Sample)	D	08-06-2002
RET-02B-02	Auxiliary Building Stack (Grab Sample)	D	08-06-2002
RET-02B-03	Auxiliary Building Stack (Sping Reading)	D	08-06-2002
RET-02B-04	Containment Stack (Sping Reading)	C	08-06-2002
RET-02B-05	Steam Release	D	08-06-2002
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RET-04-01	SAM-2 Counting Equipment Worksheet	E	06-12-2001
RET 8.3	Hospital Survey 1	Deleted	06-05-2001
RET 8.4	Hospital Survey 2	Deleted	07-25-97
RET 8.5	Hospital Survey 3	Deleted	07-25-97
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TSC-02-02	TSC Ventilation Checklist	I	01-20-2003
TSC-02-03	Emergency Response Data System (ERDS) Link Initiation Checklist	H	01-20-2003
TSC-02-04	TSC Chart Recorder Operation Checklist	E	01-20-2003
TSC-02-05	TSC and OSF De-Activation Checklist	C	01-28-2003
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	I	01-08-2002
TSC-04-01	Emergency Modification Request	H	04-29-2003
TSC-04-02	Emergency Physical Change Safety Review	Deleted	05-09-2002
TSC-04-03	Emergency Modification Index	G	04-29-2003
TSC-07-01	Head Venting Calculation	G	06-20-2002
TSC-08A-01	Steam Release Data Sheet (Energy Balance)	H	12-14-2001
TSC-08A-02	Steam Release Calculation Sheet (Energy Balance)	G	12-14-2001
TSC-08A-03	Steam Release Data/Calculation Sheet (Open Valve)	E	12-14-2001
TSC-08A-04	Steam Release Data/Calculation Sheet (STMRLS Program)	D	12-14-2001
TSC-09A-01	Core Exit Thermocouple Data	D	05-16-2002
TSC-09A-02	Fuel Rod Clad Damage Estimate	D	05-16-2002
TSC-09A-03	Fuel Rod Overtemperature Damage Estimate	E	05-16-2002
TSC 9A.4	Core Damage Based on Activity Ratios	Deleted	05-16-2002
TSC-09A-05	Core Damage Assessment (Monitoring Data)	E	05-16-2002
TSC 9A.6	Core Damage Summary	Deleted	05-16-2002
TSC-09A-07	Core Damage Assessment Results	A	05-05-2003

ERO EVENT NOTIFICATION

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Check

Note

Any WPSC PBX telephone extension can be used to activate the pagers.

Note

WHEN directed, activate the radio pager code the SM/ED or ERM selected in Section 4 and the message code selected in Section 5. If the selection in Section 4 contains two pager codes, steps 2 through 6 must be performed twice, once for each code.

1. Dial ext. "5213" on any WPSC PBX Telephone (extension xxxx).
2. 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 "9-1-920-617-5213" from a Centrex (431-xxxx) exchange located in the EOF.
3. IF the KNPP paging system is inoperable or unavailable, THEN go to Step 9.
4. WHEN the phone answers and responds with a single (1) beep, dial the pager access code selected below (the SM/ED or ERM must check one of the options below).
 - ☐ "9233" - ALERT or HIGHER EVENT (All emergency pager holders),
 - ☐ "9211" AND "9222" - UNUSUAL EVENT (Directors and Select Staff)
 - ☐ "9244" AND "9255" - CREDIBLE SECURITY THREAT
 - ☐ " _____ " - code(s) provided by the SM/ED or ERM (individual, fire, PORC etc.).
5. WHEN the phone responds with three (3) beeps, dial the message code selected below (the SM/ED or ERM must check one of the options below).
 - ☐ " _____ " - number provided by the SM/ED or ERM.
 - ☐ "66666" - UNUSUAL EVENT
 - ☐ "44666" - CREDIBLE SECURITY THREAT - UNUSUAL EVENT
 - ☐ "77777" - ALERT
 - ☐ "44777" - CREDIBLE SECURITY THREAT - ALERT
 - ☐ "88888" - SITE EMERGENCY
 - ☐ "99999" - GENERAL EMERGENCY
 - ☐ "44444" - TERMINATION OR RECOVERY

ERO EVENT NOTIFICATION

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Check

6. Press the “#” key. WHEN the phone responds with five (5) beeps, hang up.
7. IF another pager access code is to be activated, THEN return to Step 1.
8. Verify that the ERO control pager in the Control Room (or any ERO member’s pager) has activated and displays the message within 3-4 minutes.

Note

The following steps are to be used if the radio paging system is inoperable or significantly degraded outside of normal working hours.

Note

A Liaison should not accept responsibility for the ERO Call Tree unless they have immediate access to the KPB Emergency Telephone Directory.

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.

9. IF problems are encountered with the KNPP paging system, THEN use the alternate ERO notification method.
 - a. Call the State or County Liaisons listed in the Emergency Telephone Directory tab “KNPP ERO Call List,” ETD 01A, until two liaisons accept the ERO Call Tree responsibility.
 - b. Inform the first Liaison accepting the ERO Call Tree Task that a(n) (select one) Unusual Event, Alert, Site Emergency, General Emergency, or Credible Security Threat, was declared at _____ (time) and the ERO Call Tree Part “A” in the Emergency Telephone Directory tab “KNPP ERO Call List,” ETD 01A, should be activated.
 - c. Inform the second Liaison accepting the ERO Call Tree Task that a(n) (select one) Unusual Event, Alert, Site Emergency, General Emergency, or Credible Security Threat, was declared at _____ (time) and the ERO Call Tree Part “B” in the Emergency Telephone Directory tab “KNPP ERO Call List,” ETD 01A and tab “KPB ERO Call List,” ETD 01C, should be activated.