ENERGY NORTHWEST

INTEROFFICE MEMORANDUM

DATE: February 03, 2003

TO: Distribution

FROM: Procedure Control, Administrative Services, (927A)

SUBJECT: PLANT PROCEDURES MANUAL - VOLUME 13
Distribution Package: 2003-99

REFERENCE:
The following Procedure(s) have been revised/approved and are to be inserted in your controlled copy of the Manual and the superseded revisions are to be removed and destroyed

Procedure	Rev.	Title/Comments
13.10.1	25	CONTROL ROOM OPERATIONS AND SHIFT MANAGER DUTIES
13.10.4	25	RADIATION PROTECTION MANAGER DUTIES
13.11.18	13	INFORMATION COORDINATOR DUTIES

Also included in this package are **EDITORIAL CHANGES,** please replace the pages located in your manual with the attached pages:

Procedure	Rev.	Page/s
13.4.1	27	6
13.8.1	23	2, 20
13.11.3	20	1, 15

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Date	Signature of Manual Holder	#87 Controlled Copy Number

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DISTRIBUTION - VOLUME 13

Control Copy	Location	Mail Drop
2	*Control Room (501) **(IOM to CRS)**	901A
3	*Shift Manager (501)	901A
5	Licensed Training (PSF Rm. 249)	1050
6	*Simulator (PSF Rm. 235)	1050
12	PEC Library	PEC
25	Bruce Bond	964F
26	Region IV, NRC	----
28	Region IV, NRC	----
30	EOF Support Engineering Library	1050
31	*TSC Emergency Response	901A
35	NRC Resident Inspector	----
52	State of Washington, Military Department	----
55	Federal Emergency Mgmt. Agency	----
57	Benton County Dept of Emerg. Mgmt.	----
58	*WNP-2 Security **(SAS-CR) (13.1.1, 13.4.1, 13.5.1, 13.5.3, 13.5.5, 13.10.8, 13.11.10, 13.12.19, 13.13.4)**	901A
59	*WNP-2 Security **(CAS-AAP) (13.1.1, 13.4.1, 13.5.1, 13.5.3, 13.5.5, 13.10.8, 13.11.10, 13.12.19, 13.13.4)**	901A
60	WNP-2 Security	988A
63	Emergency Training	PE30
64	*Radwaste Control Room (467)	901A
66	*Simulator, Shift Manager (PSF Rm. 235)	1050
68	*Remote Shutdown Room (467) **(13.1.1, 13.2.1, 13.2.2, 13.4.1, 13.5.1, 13.10.1, 13.10.9)**	901A
75	Dept. of Health Radiation Protection	----
78	*Control Room – (501) STA's Desk	901A
83	*MUDAC	1020
86	*Simulator - STA's Desk	1050
87	Document Control Desk, NRC	----
++90	*Joint Information Center **(J. Ittner)**	PE30
94	*EOF	1050
97	*EOF	1050
114	EP Manager	PE30
127-130 (4)	Licensed Training (PSF Rm. 225, 247 or 248)	1050
132	Licensed Training (PSF Rm. 225, 247 or 248)	1050
134-136 (3)	*MUDAC Field Team Kits **(13.9.1, 13.9.5, 13.9.8, 13.13.4, 13.14.4)**	1050
++137	*MPF Field Team Kits **(13.7.5, 13.9.1, 13.9.5, 13.9.8, 13.13.4, 13.14.4) (J. Ittner)**	PE30
142	Hanford EOC/SMT	----
146	FEMA RX Liaison	----
155	*Maintenance Library (Memo to Veena)	901A
160	*OSC Emergency Support	901A
161	Equipment Operator Training	1050
164	Oregon State Dept. of Energy	----
218	U.S. Nuclear Regulatory Commission	----
219-221 (3)	Licensed Training (PSF Rm. 225, 247 or 248)	1050
223	Franklin County Emergency Management	----
236	Site 1 **(B.Lyons) (13.5.3, 13.4.1, 13.5.7, 13.13.4, 13.14.9)**	817
238	*Alternate EOF **(J. Ittner)**	PE30

++ **Procedure Control assures delivery is arranged/made to J. Ittner**

* Level 1 File

13.10.1

ENERGY NORTHWEST

USE CURRENT REVISION

COLUMBIA GENERATING STATION
PLANT PROCEDURES MANUAL

PROCEDURE NUMBER	APPROVED BY	DATE
*13.10.1	SLS - Revision 25	02/03/03

VOLUME NAME
EMERGENCY PLAN IMPLEMENTING PROCEDURES

SECTION
PLANT EMERGENCY FACILITIES

TITLE
CONTROL ROOM OPERATIONS AND SHIFT MANAGER DUTIES

TABLE OF CONTENTS

1.0 PURPOSE

To describe the responsibilities of the Shift Manager, Control Room Operators, and Shift Technical Advisor, and actions to be taken in the event it becomes necessary to activate and operate the Control Room as an emergency response facility during an emergency.

2.0 REFERENCES

2.1 10CFR50.72, Immediate Notification Requirements for Operating Nuclear Power Reactors {R-1932}

2.2 10CFR50, Appendix E (IV)(A) {R-5695, R-5708}

2.3 FSAR, Chapter 13.3, Emergency Plan

2.4 Technical Specification 5.1.2 {R1343}

2.5 OER 79071C, Unauthorized Forced Entry into the Protected Area at Three Mile Island Unit 1 on February 7, 1993

2.6 PPM 1.3.1, Operating Policies, Programs, and Practices

2.7 PPM 1.9.14, Onsite Medical Emergencies

2.8 PPM 1.10.1, Notifications and Reportable Events

2.9 PPM ABN-RAD-CR, Control Room HVAC High Radiation

2.10 PPM 5.7.1, Severe Accident Guidelines

2.11 Technical Memorandum 2117, Technical Support Guidelines for Core Thermal Engineer

2.12 PPM 13.1.1, Classifying the Emergency

2.13 PPM 13.10.2, TSC Manager Duties

2.14 PPM 13.2.1, Emergency Exposure Levels/Protective Action Guides

2.15 PPM 13.2.2, Determining Protective Action Recommendations

2.16 PPM 13.4.1, Emergency Notifications

2.17 PPM 13.5.1, Localized and Protected Area Evacuations

2.18 PPM 13.5.3, Evacuation of Exclusion Area and/or Nearby Facilities

2.19 PPM 13.5.5, Personnel Accountability, Search and Rescue

2.20 PPM 13.8.1, Emergency Dose Projection System Operations

2.21 PPM 13.13.4, After Action Reporting

2.22 Classification Notification Form, 24075

2.23 Emergency Director Turnover Sheet, 25810

2.24 Emergency Response Log, 23895

2.25 Emergency Classification or Other Emergency Messages, 26045

2.26 Public Address Emergency Message Format - Localized Evacuation, 26048

2.27 Public Address Emergency Message Format - Protected Area Evacuation, 26050

2.28 Public Address Emergency Message Format - Exclusion Area Evacuation, 26051

2.29 Follow-up Notifications, 26098

2.30 Partial Activation or Manpower Schedule, 26171

3.0 DISCUSSION

3.1 The Emergency Director (ED) is the Energy Northwest individual on site at all times who shall have the authority and responsibility to immediately and unilaterally initiate any emergency actions. {R-5708}

3.2 The Columbia Generating Station Shift Manager will normally act as ED when an emergency classification is initially declared. ED responsibilities will transfer from the Shift Manager to the TSC Manager or the EOF Manager depending upon time of facility activation.

3.3 The Shift Manager is responsible for plant operations and during an emergency will be in charge of directing the activities of on shift personnel in taking those actions necessary to mitigate the emergency conditions. The Shift Manager is the ultimate authority in prioritizing and initiating all phases of plant operations. {R-5695}

3.4 The Shift Manager and Security Supervisor are responsible to determine the appropriate course of action to deal with a security contingency that has the potential to threaten emergency response center activation and personnel safety.

3.5 Severe Accident Guidelines (SAGs) are entered and Emergency Operating Procedures (EOPs) are exited when primary containment flooding is required.

3.6 Once emergency operations commence and EPIPs are entered, normal work control practices are superceded by EPIP repair team work task methodology. When the emergency is terminated or recovery operations begin, normal work control practices are reinstated.

4.0 PROCEDURE

4.1 Shift Manager Actions

NOTE: Shift Manager procedural steps may be documented using Attachment 5.1, Shift Manager Checklist.

4.1.1 Diagnose plant conditions and direct necessary actions to alleviate abnormal conditions.

4.1.2 Implement the actions of Section 4.7 until relieved by the responding Emergency Director in accordance with Section 4.6.

a) With assistance from the STA or Emergency Response SRO, determine the necessity to change the emergency classification in accordance with PPM 13.1.1. Make the necessary public address announcements:

CAUTION: At the Unusual Event level when it is desired to activate the TSC and OSC, DO NOT activate the standard auto-dialer scenario for Unusual Event. Record an on-the-fly message to summon TSC and OSC staff using form 26171, Partial Activation or Manpower Schedule, instead.

1) Emergency center activation. Refer to Emergency Classification or Other Emergency Messages, 26045, (pink form) or,

2) Localized evacuation. Refer to Public Address Emergency Message Format - Localized Evacuation, 26048, (blue form) or,

3) Protected Area Evacuation. Refer to Public Address Emergency Message Format - Protected Area Evacuation, 26050, (green form) or

4) Exclusion Area Evacuation. Refer to Public Address Emergency Message Format - Exclusion Area Evacuation, 26051, (yellow form).

b) Ensure appropriate Control Room log entries are made for the emergency classifications and offsite notification actions.

c) At Site Area Emergency or higher classification, assign an individual in the Control Room to perform center accountability duties per PPM 13.5.5 if manual accountability is necessary.

4.1.3 If it becomes necessary to activate the TSC and OSC at an Unusual Event for additional support, activate both centers.

a) Use form 26171, Partial Activation or Manpower Schedule, to record an on-the-fly auto-dialer message to summon OSC and TSC staff at Unusual Event.

4.1.4 For any potential security scenario that could pose a threat to emergency center activation and personnel safety, confer with the Security Supervisor to determine:

- appropriate areas for TSC and OSC operations
- avenues of safe access
- communications abilities
- the ability of Security to keep the area safe
- if it is safe to summon the ERO or activate emergency centers

NOTE: If the SCC is not available to complete offsite notifications, the Control Room must complete offsite notifications until the SCC can resume this responsibility.

4.1.5 If the TSC and OSC are activated, direct the TSC to suspend in-plant activities until further notice.

4.1.6 If security event conditions exist for an emergency classification, declare the appropriate classification and initiate the offsite agency notification process, but do not summon the ERO or activate emergency centers until it is safe to do so. Confer with the Security Supervisor to make that determination. However:

a) If it is determined that is safe to activate the ERO and all emergency centers, initiate the appropriate autodialer scenario.

b) If it is determined that it is NOT safe to activate the ERO or any emergency center, AND after hours ERO response is required, initiate the security contingency autodialer scenario (#191).

1) Based on consultation with the Security Supervisor, instruct on-site TSC and OSC responders to delay reporting to their emergency centers. Refer to form 26045 (pink form) to prepare an appropriate PA announcement for on-site responders. Otherwise, inform the OSC and TSC responders to report to their emergency center directly.

4.1.7 If conditions still exist for an emergency classification at the time the security scenario is terminated, initiate the normal notification process. Refer to form 26045 (pink form).

4.1.8 If conditions no longer exist for the emergency classification at the time the security event is terminated and it is desired to terminate the emergency classification, do not notify the ERO or activate emergency centers unless other emergency conditions make it necessary.

a) If special instructions are required to the ERO, prepare an "on-the-fly" message notification, using form 26171, Partial Activation or Manpower Schedule Message, Use WNP2 as the password.

4.1.9 If a Transitory Event has been discovered per PPM 13.1.1, notify the NRC per the instructions in PPM 13.4.1, section 5.9, Notification of Transitory Events.

4.1.10 If neither the EOF nor the Technical Support Center (TSC) have been activated, and:

a) An effluent release approaching or in excess of PPM 13.1.1 Emergency Action Levels has occurred, or is occurring; or

b) An abnormal release of radioactive effluents is indicated;

Then direct a qualified individual to initiate offsite dose calculations per PPM 13.8.1 and determine if Protective Action Recommendations (PARs) for the public in accordance with PPM 13.2.2, or classifications in accordance with PPM 13.1.1, are required.

4.1.11 If the Technical Support Center (TSC) is activated, transfer responsibilities for peripheral duties not directly related to plant systems manipulation needed to establish and maintain the plant in a safe condition to the TSC.

4.1.12 Maintain communications with the TSC Operations Manager concerning plant status. Use the Emergency Director ringdown phone or communicate via the Control Room Information Coordinator when both the TSC and EOF need to be on line to discuss mitigating actions prior to implementation of those actions.

4.1.13 Keep the Operations Manager in the TSC informed of plant conditions and actions which may impact in-plant or offsite activities.

4.1.14 Request the Operations Manager call in additional Control Room support personnel as needed.

4.1.15 If notified of an emergency situation that requires Fire Brigade response, perform the following:

a) Activate the alerting tone.

b) Announce the type of emergency.

c) Give the emergency's location.

d) Request the Fire Brigade respond to the emergency.

e) Repeat the announcement.

f) Establish communications with the Fire Brigade Leader at the scene of the emergency to obtain situational reports, confer on action plans, and assess manpower and equipment needs for mitigating the emergency.

g) Ensure the Control Room maintains accountability for emergency personnel performing Fire Brigade or Emergency Operating Procedure (EOP) activities until the OSC is activated.

NOTE: When not used for Control Room dispatched activities, emergency personnel may be staged in the OSC or at a location determined by the Shift Manager and the OSC Manager.

NOTE: When activated, the OSC becomes responsible for accountability of plant emergency workers. All requests for in-plant emergency worker actions, including on shift Equipment Operators, should be directed through the TSC to the OSC for implementation.

4.1.16 Inform the OSC of:

- Known or suspected Plant hazards
- Names of dispatched Fire Brigade or EOP team members
- Assignment
- Location
- Time dispatched and expected time of return

NOTE: Tasks of an immediate nature should be prefaced by the term "urgent". The Shift Manager will usually confer with the Operations Manager on tasks of an urgent nature, but the Shift Manager has the final authority in determining if a task is "urgent".

4.1.17 If a task is identified as requiring an immediate response, designate it as "urgent" and communicate the task to the TSC Operations Manager or TSC Manager.

4.1.18 If more than one "urgent" task is identified, select a priority for each and inform the TSC Operations Manager.

4.1.19 If notified of the need for offsite medical assistance for injured or contaminated injured personnel, implement PPM 1.9.14.

4.1.20 Refer any incoming media calls to the Joint Information Center.

4.1.21 Maintain a log of events and actions.

4.1.22 For termination of emergency:

a) Collect the individual After Action Reports prepared by staff personnel.

b) Prepare an individual After Action Report as per PPM 13.13.4.

c) Deliver all After Action Reports to the Operations Manager.

4.2 Control Room Supervisor Actions

4.2.1 Advise the Shift Manager of abnormal conditions and perform duties as directed.

4.2.2 Take actions to terminate the conditions causing the emergency.

4.2.3 Continuously monitor the Control Room habitability in accordance with PPM ABN-RAD-CR.

NOTE: If you initiate PPM ABN-RAD-CR while the TSC is occupied, notify the TSC Manager that an air stagnation condition will exist.

4.2.4 If the TSC is determined to be uninhabitable, initiate TSC isolation actions specified in PPM ABN-RAD-CR.

4.2.5 In the absence of the Shift Manager or higher authority, assume Shift Manager responsibilities, including Emergency Director responsibilities and authority as per Section 4.7. {R1343}

4.2.6 Direct the activities of Control Room Operators and Equipment Operators.

4.2.7 Refer any incoming media calls to the Joint Information Center.

4.3 Control Room Operator Actions

4.3.1 Recognize unusual plant conditions and take necessary actions under direction of Control Room Supervisor and/or Shift manager to terminate the condition causing the emergency.

4.3.2 Keep the Control Room Supervisor informed of unusual conditions.

4.3.3 Refer any incoming media calls to the Joint Information Center.

4.4 Shift Technical Advisor/Emergency Response SRO Actions

- The Shift Technical Advisor (STA) qualified individual should stay abreast of plant activities and status. The STA qualified individual evaluates the risk associated with planned plant activities and advises shift management on actions to be taken to minimize the associated risk. When appropriate, the STA qualified individual should advise shift management on technical matters.

  An STA qualified individual shall be on shift in modes 1, 2, or 3, per FSAR requirements, and will be available within 60 minutes for call in, in modes 4 and 5.

  When the STA qualified individual is performing a dual role as the Shift Manager or Control Room Supervisor, another SRO (the Emergency Response SRO) shall be on shift to provide independent oversight of plant activities and status, and to assist the Shift Manager in emergency response activities. This individual may be the Shift Support Supervisor (SSS), if SRO qualified.

- The Emergency Response SRO shall be on shift in all modes when the STA function is provided by the Shift Manager or Control Room Supervisor. The Emergency Response SRO is another SRO present to advise and assist the Shift Manager on emergency response actions such as emergency classifications and notifications, protective action recommendations, and off-site dose assessment.

4.4.1 If an off-normal condition is indicated, or if directed by the Shift Manager, man the duty station in the control room and maintain a log of your actions.

4.4.2 Assist the Shift Manager in evaluating plant conditions relative to preestablished emergency action levels and initiating conditions and in declaring the appropriate emergency classification. Refer to PPM 13.1.1.

4.4.3 Utilize the computer outputs (such as, TDAS, PDIS and GDS) to evaluate the potential for core damage or worsening of an abnormal event.

4.4.4 If core damage is suspected, make a qualitative assessment of plant parameters using Technical Memorandum 2117, Technical Support Guidelines for Core Thermal or Reactor Engineer during and following an abnormal event if the TSC is not activated. Provide the Shift Manager with a Plant Status Assessment.

4.4.5 Provide the Shift Manager with recommendations to minimize or control the consequences of an emergency condition.

NOTE: A radioactive release is in progress when any of the following conditions exist:

- A valid reading exists which exceeds PPM 13.1.1 Table 3 Column UE, OR
- Offsite dose calculations meet or exceed PPM 13.1.1 Table 4 Column UE levels for TEDE or CDE thyroid, OR
- Field teams measure GE 100 microR at 1.2 miles.

NOTE: Refer to PPM 13.8.1 for dose projection guidance.

4.4.6 Perform offsite dose assessment using the Quick Emergency Dose Projection System (QEDPS).

4.4.7 Provide input to the Emergency Director for emergency classification and/or protective action decisions as necessary in accordance with PPM 13.2.2 guidance.

4.4.8 Coordinate turn over of offsite dose projection functions to the TSC or EOF when they are activated and able to assume procedural responsibility.

4.4.9 Provide information to the Shift Manager on Emergency Plan Implementing Procedures that prescribe emergency response actions that provide for employee and public safety.

4.4.10 Continuously reassess plant conditions and keep the Shift Manager informed of new data and your recommendations.

4.4.11 Refer incoming media calls to the Joint Information Center.

4.5 All Control Room Personnel

4.5.1 Upon shift change, brief your relief on responsibilities, duties and current status of tasks being performed.

4.5.2 Upon shift change or termination of the emergency:

a) Prepare individual After Action Report as per PPM 13.13.4.

b) Deliver all After Action Reports to Shift Manager for delivery to the Operations Manager.

4.6 Transfer Of Emergency Director Duties

NOTE: The Shift Manager remains a part of the decision making team when in SAGs. Announce the transition of SAG entry and EOP exit to the Control Room and TSC Operations Manager.

4.6.1 Transferring the Emergency Director duties:

a) When contacted by an oncoming Emergency Director, give a time when conditions would permit the turnover process.

NOTE: The Classification Notification Form or the Emergency Director Turnover Sheet can be used as a guide during the turnover process.

b) At the time when conditions permit, contact the oncoming Emergency Director and conduct a turnover that includes a discussion of the Plant status and emergency conditions.

c) Once the oncoming Emergency Director fully understands the current conditions and proposed actions, transfer the Emergency Director duties.

d) Announce the transfer to the facility staff.

e) Log the transfer in the Control Room log.

4.7 Actions As Emergency Director

Once EPIPs have been entered (emergency classification occurs), recovery actions not specifically authorized by plant procedures which have a potential for radioactive release to the environment require Emergency Director concurrence.

4.7.1 Assume the following responsibilities, delegating tasks as needed with the exception of items a., through d., which may not be delegated to any other member of the Emergency Response Organization:

a) Classification of emergencies in accordance with PPM 13.1.1, and periodically review the classification to ensure that it reflects current plant conditions.

b) Making protective action recommendations in accordance with PPM 13.2.2, to offsite authorities responsible for implementing emergency measures for the public.

c) Approving official notifications/communications (i.e., Crash calls) to local, state, and Federal agencies.

1) Ensure that immediately after notification of the appropriate state and local agencies, but not later than one hour after event classification, a designated communicator: {R1932}

a) Provides the NRC with event information using guidance contained in the Event Notification Worksheet (25665) via the NRC Emergency Notification System (ENS), or by dialing:

(301) 816-5100 or (301) 951-0550; and

b) Maintains continuous communication with the NRC for whatever period they request or until relieved by the Plant/NRC Liaison position in the TSC.

d) Requesting assistance from offsite organizations and agencies as needed.

e) Ensuring, through the facility managers, that the appropriate emergency procedures are implemented.

f) Ensuring the requisite emergency response facilities are activated and properly staffed.

g) If advised of a personnel injury or death, then:

1) Ensure that transportation to a medical facility is being arranged and next-of-kin notifications occur using guidance found in PPM 1.9.14.

2) Ensure details of the incident, e.g., individuals name, type of injury, duties when injury occurred, etc., are forwarded to the Joint Information Center.

h) Authorizing venting of the primary containment when in SAGs.

NOTE: The Shift Manager, as Emergency Director, may terminate an Unusual Event. Due to the commitment of onsite and offsite manpower and resources, only the EOF Manager as the Emergency Director may terminate an event classified as Alert or greater.

i) Terminating the emergency and entering the recovery phase in accordance with PPM 13.13.2, Emergency Event Termination And Recovery Operations.

4.7.2 If action is determined to be necessary that causes the plant to depart from Technical Specifications or license conditions, refer to PPM 1.3.1 and 1.10.1 to invoke 10CFR 50.54(x) actions.

4.7.3 Approximately every 30 minutes, or when conditions change, perform the following:

a) Review the emergency action levels (EALs) in procedure PPM 13.1.1 to ensure the emergency classification declared reflects current Plant conditions.

b) Review the protective action recommendations (PARs) in procedure PPM 13.2.2 to ensure the PARs declared reflect current Plant or radiological release conditions.

c) Review the status of onsite protective actions and whether actions should be modified based on the current Plant conditions.

d) Conduct facility briefing.

4.7.4 When conditions warrant a change in emergency classification or protective action recommendations, then perform the following:

a) Complete a Classification Notification Form (CNF).

NOTE: Notifications to the state, counties and DOE (Hanford) are required within 15 minutes of time noted on the Classification Notification Form.

b) Ensure initial and follow-up notifications are performed in accordance with PPM 13.4.1, using the completed CNF as the basis. Refer to 26098, Follow-up Notifications, for follow-up notifications.

c) Direct the Information Coordinator to inform the other Columbia Generating Station emergency facilities of the change in emergency classification and/or protective actions and to ensure a copy of the CNF is sent to the appropriate organizations.

4.7.5 Determine if Protected Area evacuation actions need to be taken in accordance with the following:

a) Alert - Evacuation is optional, depending on event prognosis, consider evacuating plant personnel who are not part of the ERO.

b) Site Area Emergency and General Emergency - Protected Area evacuation is required for most situations per PPM 13.5.1 for personnel who are not part of the ERO.

4.7.6 Ensure the SCC Duty Officer has implemented actions to evacuate Site One personnel at Site Area Emergency per 13.5.3.

4.7.7 Consider exclusion area evacuation in accordance with PPM 13.5.3 when a Site Area Emergency is declared and order an exclusion area evacuation when a General Emergency is declared.

4.7.8 Authorize personnel to take potassium iodide (KI) when recommended by the Radiation Protection Manager or Radiological Emergency Manager in accordance with PPM 13.2.1.

5.0 ATTACHMENTS

5.1 Shift Manager Checklist

SHIFT MANAGER CHECKLIST

Response Actions	Time Completed	Initials

Shift Manager Actions

1. Diagnose plant conditions and direct necessary actions to alleviate abnormal conditions. _____ _____

2. Implement actions of Section 4.1 or 4.7 until relieved by the responding ED per Section 4.6. _____ _____

3. If it becomes necessary to activate the TSC and OSC for additional support, activate both centers. _____ _____

4. For security contingencies, confer with the Security Supervisor to determine appropriate areas for TSC/OSC operations, safe routes, communications ability, and if it is safe to summon the ERO or activate the emergency centers: _____ _____

   a) If it is determined that is safe to activate the ERO and all emergency centers, initiate the appropriate autodialer scenario.

   b) If it is determined that it is NOT safe to activate the ERO or any emergency center, AND after hours ERO response is required, initiate the security contingency autodialer scenario (#191).

      1) Based on consultation with the Security Supervisor, instruct on site TSC and OSC responders to delay reporting to their emergency centers. Refer to form 26045 (pink form) to prepare an appropriate PA announcement for on-site responders. Otherwise, inform the OSC and TSC responders to report to their emergency center directly.

5. If EOF nor the TSC have activated and an abnormal release of radioactive effluents is indicated, direct a qualified individual to initiate offsite dose calculations and determine if PARs per PPM 13.2.2 or classification per PPM 13.1.1 are required. _____ _____

6. If TSC or EOF is activated, transfer responsibilities not directly related to reactor manipulation to the TSC. _____ _____

Response Actions	Time Completed	Initials
7. Keep Operations Manager in TSC informed of plant conditions which may impact in plant or offsite activities.	_____	_____
8. Maintain communications with the TSC Operations Manager concerning plant status. Use the Emergency Director ringdown phone as appropriate to discuss mitigating actions prior to implementation of those actions.	_____	_____
9. Request Operations Manager call in additional CR support personnel as needed.	_____	_____
10. If notified of emergency situation that requires FB response, perform the following:	_____	_____
a. Activate the alerting tone. b. Announce the type of emergency. c. Give the emergency's location. d. Request the FB respond to the emergency. e. Repeat the announcemnet. f. Ensure Control Room maintains accountability for personnel performing FB or EOP activities until the OSC is activated. g. Establish communications with FB Leader at scene to obtain situational reports, confer on action plans, and assess manpower and equipment needs.		
11. When activated, inform OSC of known or suspected Plant hazards, and names of dispatched FB or EOP teams, assignment, location, time dispatched and expected time to return.	_____	_____
12. It task requires immediate response, designate it as "urgent" and communicate to TSC Operations Manager or TSC Manager.	_____	_____
13. If more than one "urgent" task is identified, select a priority for each and inform the TSC Operations Manager.	_____	_____
14. If notified of need for offsite medical assistance, implement PPM 1.9.14.	_____	_____

Response Actions	Time Completed	Initials

NOTE: When activated, the OSC becomes responsible for accountability of plant emergency workers. All requests for in-plant emergency worker actions, including on shift Equipment Operators, should be directed through the TSC to the OSC for implementation.

15. Refer any incoming media calls to the JIC. _____ _____

16. Maintain log of events and actions. _____ _____

17. For termination of emergency, collect After Action Reports (AAR) from staff, prepare an individual AAR per PPM 13.13.4, and deliver AARs to Operations Manager. _____ _____

Transfer Of Emergency Director Duties

The Shift Manager remains a part of the decision making team when in SAGs. Announce the transition of SAG entry and EOP exit to the Control Room and TSC Operations Manager.

1. If transferring the ED duties:

   a. When contacted by an oncoming ED, give a time when conditions would permit the turnover process. _____ _____

   b. At the time when conditions permit, contact oncoming ED and conduct a turnover using the Classification Notification Form or the Emergency Director Turnover Sheet as a guide. _____ _____

   c. Once the oncoming ED fully understands current conditions and proposed actions, transfer ED duties. _____ _____

   d. Announce the transfer to the facility staff. _____ _____

   e. Log the transfer in the facility log. _____ _____

Actions As Emergency Director

Once EPIPs have been entered (emergency classification occurs), recovery actions not specifically authorized by plant procedures which have a potential for radioactive release to the environment require Emergency Director concurrence.

Response Actions	Time Completed	Initials

1. Assume the following responsibilities, delegating as necessary with the exception of items a., through d., which are non-delegable: _____ _____

   a. Classification of emergencies per PPM 13.1.1 and periodically review the classification to ensure that it reflects current plant conditions.

   b. Making protective action recommendations per PPM 13.2.2 to offsite authorities responsible for implementing emergency measures for the public.

   c. Approving official notifications/communications to local, state, and Federal agencies.

   d. Requesting assistance from offsite organizations and agencies as needed.

   f. If advised of a personnel injury or death, then:

      Ensure that transportation to a medical facility is being arranged and next-of-kin notifications occur using guidance found in PPM 1.9.14.

      Ensure details of the incident, e.g., individuals name, type of injury, duties when injury occurred, etc., are forwarded to the Joint Information Center.

   g. Authorizing venting of the primary containment when in SAGs.

   h. Terminating the emergency and entering the recovery phase per PPM 13.13.2.

2. Refer to PPM 1.3.1 to invoke 10CFR 50.54(x) actions as necessary. _____ _____

3. Approximately every 30 minutes, or when conditions change, perform the following: _____ _____

   a. Review the EALs in procedure PPM 13.1.1 to ensure the emergency classification declared reflects current Plant conditions. _____ _____

Response Actions	Time Completed	Initials
b. Review the PARs in procedure PPM 13.2.2 to ensure the PARs declared reflect current Plant or radiological release conditions.	_____	_____
c. Review the status of onsite protective actions and whether actions should be modified based on the current Plant conditions.	_____	_____
4. When conditions warrant a change in emergency classification or protective action recommendations, perform the following:	_____	_____
a. Complete a Classification Notification Form (CNF).		
b. Ensure notifications are performed per PPM 13.4.1 using the completed CNF as a basis.		
c. Direct the Information Coordinator to inform the other Columbia Generating Station emergency facilities of the change in emergency classification and/or protective actions and ensure a copy of the CNF is sent to the appropriate organizations.		
5. Determine if Protected Area evacuation actions need to be taken. Protected Area evacuations are required for most situations at Site Area Emergency per PPM 13.5.1.	_____	_____
6. Direct the SCC Duty Officer to implement evacuation actions for Site One personnel at Site Area Emergency per 13.5.3.	_____	_____
7. Consider exclusion area evacuation per PPM 13.5.3 when a Site Area Emergency is declared and order an exclusion area evacuation when a General Emergency is declared.	_____	_____
8. Authorize increases to emergency worker radiation exposure limits when recommended by the Radiation Protection Manager or Radiological Emergency Manager per PPM 13.2.1.	_____	_____
9. Authorize personnel to take potassium iodide (KI) when recommended by the Radiation Protection Manager or Radiological Emergency Manager per PPM 13.2.1.	_____	_____

13.10.4

ENERGY NORTHWEST

USE CURRENT REVISION

COLUMBIA GENERATING STATION
PLANT PROCEDURES MANUAL

PROCEDURE NUMBER	APPROVED BY	DATE
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VOLUME NAME
EMERGENCY PLAN IMPLEMENTING PROCEDURES

SECTION
PLANT EMERGENCY FACILITIES

TITLE
RADIATION PROTECTION MANAGER DUTIES

TABLE OF CONTENTS

1.0 PURPOSE

This procedure describes the emergency responsibilities and duties of the Radiation Protection Manager. The Radiation Protection Manager (RPM) is responsible for directing Plant Health Physics staff, assessing radiological conditions, reviewing radiological data and providing recommendations concerning radiation protection measures to the TSC Manager. The Radiation Protection Manager, upon activation of the TSC, is responsible for Protective Action Decisions (PADs) within the Protected Area and, when the TSC Manager is the Emergency Director, is responsible for PARs outside the Protected Area until relieved by the Radiological Emergency Manager.

2.0 REFERENCES

2.1 FSAR Chapter 13.3, Emergency Plan, Section 2

2.2 10CFR50.72, Immediate Notification Requirements for Operating Nuclear Power Reactors

2.3 PPM 2.10.12, Technical Support Center HVAC

2.4 PPM 12.10.1, Sample Station Operation

2.5 PPM 13.2.1, Emergency Exposure Levels/Protective Action Guides

2.6 PPM 13.2.2, Process for Determining Protective Action Recommendations and Protective Action Decisions

2.7 PPM 13.5.1, Localized and Protected Area Evacuation

2.8 PPM 13.7.5, Offsite Assembly Area Operations

2.9 PPM 13.8.1, Emergency Dose Projection System Operations

2.10 PPM 13.11.7, Radiological Emergency Manager Duties

2.11 PPM 13.13.1, Reentry Operations

2.12 PPM 13.13.4, After Action Reporting

2.13 Emergency Response Log, 23895

2.14 Technical Support Center (TSC) Briefing Guidelines, 25860

2.15 PERA 202-2918-01, TSC Access and Habitability Control

3.0 PROCEDURE

3.1 Radiation Protection Manager Responsibilities

3.1.1 Upon notification of an Alert or higher emergency, or if directed, log in on TES, obtain an electronic dosimeter, and proceed to the Technical Support Center (TSC).

NOTE: If you desire, a qualified RPM on the ERO list may be contacted via the EOF Manpower Scheduler to respond as Assistant RPM.

3.1.2 Present your keycard to the TSC cardreader located by the outer hallway access door to establish electronic Personnel Accountability.

3.1.3 Enter your name on the TSC Accountability Log located on the table just inside the TSC to establish manual Personnel Accountability.

3.1.4 Write your name on the TSC staffing board in the space next to your emergency position.

3.1.5 If you leave the TSC temporarily, inform the TSC Manager of your destination and approximate time of return. Note your destination on the TSC Personnel Accountability Log.

3.1.6 Establish TSC habitability:

- If necessary based on radiological conditions, contact HP Lead in the OSC to dispatch an HP Tech to establish/monitor TSC habitability. Once TSC habitability is established, the HP Tech may be released to the OSC.

- Ensure both TSC vestibule doors are closed to maintain TSC environmental integrity.

  NOTE: It may be necessary to establish the vestibule door as the contamination control boundary if radiological conditions prevent the use of the IPMs.

- When a radiological release has started, ensure a step-off-pad and frisker are set up at the vestibule door. Post the "Release in Progress" sign above the 10 Mile EPZ map and inform the TSC staff.

- Set up a swing gate and post the south TSC entrance door as "No Entry", and Radiological Controlled Area boundary.

- Direct the Admin Support staff to require visitors, support personnel or other non-TSC staff to obtain dosimetry, frisk, key card into the TSC, and sign in on the manual accountability log to maintain TSC habitability.

- Verify the TSC normal or emergency ventilation system operation. Note and refer any local annunciators that indicate problems to the Operations Manager and Maintenance Manager.

  1. Refer to the local TSC HVAC annunciator panel in the TSC Equipment Room.

     a) If the TSC HVAC is operating in the normal mode, there should be no alarms on the annunciator panel, TSC-1.

     b) If the TSC HVAC is operating in the emergency mode, alarm drop 1-2, FAZ SIGNAL ALARM PLANT EMERGENCY IN PROGRESS, should be in alarm.

     c) All control switches on TSC Control Panel TSC-1 should be in the ON or AUTO position unless otherwise tagged.

  NOTE: If the TSC ventilation monitor is inoperable, request an HP Technician to set up suitable air monitoring equipment in the TSC. Manual TSC HVAC operation may be necessary to maintain TSC habitability per PPM 2.10.12.

- Request an HP Technician to activate the TSC ventilation radiation monitor per Attachment 4.1.

3.1.7 Monitor the status of TSC habitability and advise the TSC Manager of any change that may require evacuating or relocating the TSC.

3.1.8 If the following conditions exist:

a. TSC general area radiation levels exceed 5 mrem/hr as indicated by the TSC radiation monitor or Victoreen area radiation monitor, or

b. TSC unidentified airborne radioactivity exceeds 0.3 DAC: (0.3 DAC equates to approximately 750 ccpm on a 40 ft^3 air sample in the field).

- Immediately notify the TSC Manager of the condition

- Direct surveillance of airborne activity be increased to once per hour and results reported to you

- Direct dose rates in the area be determined approximately every 15 minutes and results reported to you

- Direct that projected accumulated doses for TSC personnel be evaluated and appropriate stay times be established

3.1.9 If the emergency worker dose limit is projected to exceed 5 REM over the course of the event for TSC staff, inform the TSC Manager so that plans to evacuate the TSC are initiated.

3.1.10 Refer to PPM 13.2.1 when guidance on increasing exposure limits for emergency workers or recommending Potassium Iodide (KI) is appropriate.

3.1.11 When contacted by the REM for HPC staffing, contact the OSC HP Lead for personnel.

3.1.12 Following declaration of a Site Area Emergency, use the guidance provided in PPM 13.5.1 to recommend to the TSC Manager the appropriate evacuation routes and assembly areas for a Protected Area Evacuation.

a. Support Health Physics Center staffing by dispatching an HP Technician to the HPC when requested.

b. Assist the Plant Admin Manager in completing the Protected Area Evacuation announcement form.

3.1.13 Following implementation of a Protected Area evacuation, ensure HP coverage is provided at the designated plant exit location portal monitor, and at the Protected Area exit point in accordance with PPM 13.5.1.

3.1.14 If evacuation of onsite personnel is ordered by the TSC Manager, determine hazardous areas to avoid and safe routes for evacuees.

3.1.15 Determine if radiological monitoring is required for personnel leaving site and coordinate locations for setting up monitor activities with the REM.

3.1.16 Review radiological data and provide briefings to the TSC Manager on recommendations for radiological protection measures.

NOTE: An HPN phone is also located in the EOF. An HPN communicator in the EOF may be designated by arrangement with the Radiological Emergency Manager, after EOF activation.

3.1.17 If the NRC Operations Center requests event information on the TSC's Health Physics Network (HPN) phone, designate a knowledgeable HP person to implement Attachment 4.2, HPN Communicator Duties.

3.1.18 If the TSC is activated before the EOF:

a. Determine if the TSC needs to relieve the Control Room of responsibility for offsite dose assessment calculations.

b. Determine if Protective Action Recommendations (PARs) for the public based on offsite dose projections need to be recommended to the TSC Manager.

c. When required, coordinate initial radiological field team actions on or offsite.

d. Until relieved, perform the duties of the Radiological Emergency Manager (REM) contained in PPM 13.11.7.

3.1.19 When the designated REM arrives, provide briefing and turnover on the following:

- Current plant status and conditions that could cause offsite radiological release.
- Significant radiological conditions and hazardous areas on and offsite.
- Dose projection results to this point, if any, including discussion of whether any of the documentation results for those dose projections need to be forwarded to offsite agencies and if so, who will arrange for them to be sent.
- Current status of any protective action decisions made by offsite agencies on PARs.

3.1.20 Review plant radiological data and provide necessary in plant direction to Health Physics personnel through the Lead Health Physics person in the Operations Support Center.

3.1.21 When it is determined that a PASS sample should be obtained, direct the Maintenance Manager to dispatch a PASS team. Refer to PPM 12.10.1 and consider the following when requesting the taking of a PASS sample:

- Conditions allow taking a PASS sample.
- Location for taking the sample.
- Whether sample or samples to be taken are reactor coolant and/or containment atmosphere.
- Radiation levels in areas where samples are to be collected.

3.1.22 Implement the actions and guidance of PPM 13.2.1 when it becomes necessary to increase exposure guides/limits for Plant emergency workers.

- Declaration of an Alert or higher emergency classification automatically waives Energy Northwest administrative exposure holdpoints.
- The individuals' occupational dose is subtracted from the Emergency Worker dose limit of 5 rem.
- Request for exposure limits above 5 rem TEDE is approved by the Emergency Director. The Emergency Director may verbally delegate this responsibility to the RPM or REM as applicable.
- If an Emergency Exposure Request is authorized, follow guidance in PPM 13.2.1.

3.1.23 As necessary, request augmenting Health Physics personnel to support plant radiological assessment and protection measures via the Plant Admin Manager.

3.1.24 Assess the need to recommend radiological protection, respiratory protection, sheltering or evacuation for personnel within the Protected Area.

3.1.25 Periodically, contact the Security Supervisor in the Central Alarm Station (CAS) to determine any habitability concerns. Ensure the Security Supervisor is kept informed of radiological conditions and protective actions for Security Force personnel.

3.1.26 As requested, provide periodic TSC update briefings on radiological concerns. Refer to the Radiation Protection Manager's portion of the Technical Support Center (TSC) Briefing Guidelines (Form 25860), located in the TSC.

3.1.27 When plant conditions make it necessary, periodically direct that:

a. Plant areas where food is stored or consumed be surveyed.

b. Plant drinking water samples be collected and analyzed.

3.1.28 When the recovery phase is entered, provide Radiation Protection and ALARA assistance with developing plans and procedures.

a. As required, direct appropriate staff to perform whole body counting and internal dose assessment.

3.1.29 Refer incoming media calls to the Joint Information Center.

3.1.30 Upon shift change, fully brief your relief as to events which have transpired and status of work being performed.

3.1.31 Upon shift change or termination of the emergency:

a. Prepare individual After Action Report in accordance with PPM 13.13.4.

b. Deliver After Action Reports of you and your staff to the TSC Manager.

4.0 ATTACHMENTS

4.1 Radiation Monitor Startup Checklist

4.2 Health Physics Network (HPN) Communicator Duties

RADIATION MONITOR STARTUP CHECKLIST

1. Open power panel door to PP-TSC1-DIV A, located in the TSC mechanical equipment room.

2. Ensure that Breaker 11 is ON then close power panel door.

3. Proceed to Rack TSC-SR-1 (TSC-RAD-1).

4. If the unit is not already running, place the TSC-FN-21 switch in the RUN position.

> Warning: Powering up or turning on the High Voltage for the RIS units may cause the alarm to sound. The alarm is very loud.

5. Verify that TSC-RIS-1A, 1B, and 1C are operating as follows:

   A. Verify that the power for each RIS is on. (Bottom switch (OFF-PWR) depressed on each RIS, and light on.)

   B. Verify that the high voltage is on (second from bottom switch (OFF-HV) depressed on each RIS, and light is on).

6. Switch recorder TSC-RR-1 from standby to run as follows:

   A. Press RCD on TSC-RR-1 until RCD light is lit.

   B. Date, time and initial the chart paper.

7. Perform a response check of each RIS by depressing the NOR-CS push button and hold down until the appropriate meter reaches maximum steady reading, or alarm sounds.

8. Mark the response check trace on the chart recorder.

9. To place the unit in standby:

   A. Momentarily place TSC-FN-21 switch in the STOP position. The LOW FLOW light will come on.

   B. Press RCD on TSC-RR-1 until the RCD light is extinguished.

Duties: Health Physics Network (HPN) Communicator

Assigned Location: Technical Support Center (TSC)

Report To: Radiation Protection Manager (RPM)

Activation Level: Alert or Higher Classification

Responsibilities:

1. Upon assignment, obtain a briefing from the RPM on the current status of the emergency and the known or anticipated radiological conditions and/or releases.

2. Activate the TSC extension of the HPN phone, introduce yourself to the NRC communicator and provide information you have on the current status of onsite and offsite radiological conditions.

3. After assuming this responsibility, observe the requirements of 10CFR50.72(c)(3) by maintaining continuous communications when requested by the NRC. If you leave the phone for any reason, find someone to maintain the phone in your absence.

4. Maintain a log of your communications with the NRC on the Emergency Response Log, (Form -23895).

5. Notify the RPM when you require assistance with resolving NRC information requests or when you are asked to make commitments you do not feel you are authorized to make.

6. As conditions allow, brief the RPM on the status of HPN communications with the NRC.

7. Ensure transmissions you relay are distinct and understood. Avoid the use of acronyms unless you are sure they are understood and ensure the correct letters of acronyms are understood by using phonetic spelling to clarify, i.e., "B" as in Bravo or "D" as in Delta.

8. Ensure data you transmit to the NRC represents factual information only. Avoid speculative information or editorializing on data and do not engage in problem solving discussions.

9. When relieved of HPN Communicator duties by an EOF Communicator:

   a. Brief your relief on the status of the plant radiological conditions and on pertinent information you have given to the NRC communicator.

   b. Obtain an acknowledgment from the EOF HPN Communicator that they are ready to assume HPN communications.

   c. Obtain permission from NRC to discontinue communications from the TSC.

   d. Notify the RPM you have been relieved.

   e. Submit all logs of your communications with the NRC to the RPM.

10. Upon shift change, brief your relief on responsibilities, duties and the current status of HPN communications with the NRC.

11. Upon shift change or termination of the emergency:

   a. Prepare an individual After Action Report. Refer to PPM 13.13.4.

   b. Deliver After Action Report and logs to the RPM.

13.11.18

ENERGY NORTHWEST

USE CURRENT REVISION

COLUMBIA GENERATING STATION
PLANT PROCEDURES MANUAL

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SECTION
EMERGENCY OPERATIONS FACILITY

TITLE
INFORMATION COORDINATOR DUTIES

TABLE OF CONTENTS

1.0 PURPOSE

This procedure defines the duties of the Information Network Coordinators and operation of the Information Network System.

2.0 REFERENCES

2.1 FSAR, Chapter 13.3, Emergency Plan, Section 6

2.2 PPM 13.13.4, After Action Reporting

2.3 Emergency Response Log (23895)

2.4 Plant Status (25918)

3.0 PROCEDURE

3.1 General Information Coordinator Responsibilities

3.1.1 Upon notification of an Alert, Site Area Emergency or General Emergency, report to your designated emergency center.

3.1.2 TSC and OSC Information Coordinators log in on the emergency RWP and obtain an electronic dosimeter.

3.1.3 TSC and OSC Information Coordinators present keycards to the cardreader for accountability.

3.1.4 Enter your name on the Accountability Log to establish manual Personnel Accountability.

3.1.5 Sign in on the center staffing board in the space next to your emergency position.

3.1.6 If you leave the center temporarily, inform the Center Manager of your destination and approximate time of return. Note your destination on the Personnel Accountability Log.

3.1.7 Boot up the Information Coordinator's computer using your personal LAN user ID and password, and overhead projector at the TSC and EOF.

a. Navigate to PDIS and verify that the PC screen image is projected on the pull down screen. Click on the EOP pull down menu and select Plant Status, Containment Status, or Rad Status displays as requested.

3.1.8 Activate the Information Network for your center by using either the Jackset and attached headset, or the cordless headset unit.

a. If using attached jackset:

- Plug the headset into the Jackset adapter attached to the Information Coordinator phone. Ensure that the phone is plugged into the Information Coordinator line.
- Attach the headset control unit to your belt.
- Push the rocker switch on the Jackset so the red bar is showing.

NOTE: If you are using the phone handset rather than the headset push the rocker switch on the Jackset so the red bar does not show.

b. If using the cordless headset, set up the unit as follows, if necessary:

1) Disconnect the Information Coordinator phone line from the desk phone and connect the line to the cordless phone base unit.

2) Connect the AC adapter to the base unit and plug in to an outlet.

3) Plug the headset with microphone into the handset, if necessary. Use the PHONE button to turn the phone on, and the MUTE button to mute the phone when not speaking. Push the MUTE button again to speak.

4) If the battery is changed out for a fresh one, place the handset back in the base unit momentarily to synchronize.

Announce your presence on line to the other emergency centers.

NOTE: The Technical Support Center (TSC) Information Coordinator is the Lead Coordinator for the system. Coordinators are also located in the:

- Control Room
- Operations Support Center (OSC)
- Emergency Operations Facility (EOF)
- Joint Information Center (not continuously monitored)

3.1.9 Notify the TSC Information Coordinator of your intention to be off the air for short absences, and check in upon your return.

3.1.10 Record significant incoming information as necessary on the information board in your center provided for that purpose.

3.1.11 Using the cordless microphone, if appropriate, announce significant incoming information to your center manager and staff such as:

- Time other emergency centers were activated.
- Significant information announced from other emergency centers.
- Significant items appearing on your center data displays. If assigned responsibility, record information on center status boards. Use up or down arrows to indicate trends, as appropriate.

3.1.12 Announce significant information to other centers, such as:

- Time your emergency center was activated.
- Items announced to your center staff.
- Items ordered transmitted by the center manager.

3.1.13 Use three way communications for specific center communications and for specific communications within your center.

3.1.14 Refer any calls from the media to the Joint Information Center.

3.1.15 Upon shift change, brief your relief on responsibilities, duties, and status of work being performed.

3.1.16 Upon shift change or termination of the emergency:

3.1.17 Prepare an individual After Action Report. Refer to PPM 13.13.4.

3.1.18 Deliver After Action Reports and logs to your center manager.

3.2 Control Room Information Coordinator Responsibilities

3.2.1 If the TSC Information Coordinator is not on line yet, transmit significant information from the Control Room such as:

- Emergency Classification changes.
- Protective Action Decisions made for Energy Northwest emergency workers, e.g., Protected or Exclusion Area evacuations, KI for emergency workers, etc.
- Plant status information with emphasis on inoperable systems. Refer to Plant Status form (25918) information to broadcast if PDIS is not available. Information should be provided block by block.
- Requests for assistance as determined by the Shift Manager or Control Room Supervisor.

NOTE: When activated, allow the Control Room Information Coordinator to report Radiological Status and Met Data if PDIS is not available.

- Time checks according to the Control Room digital time display.

3.3 TSC Information Coordinator Responsibilities

3.3.1 Transmit significant information from the TSC such as:

- Plant status information with emphasis on inoperable systems. Refer to Plant Status form for examples of information to broadcast.
- Significant equipment out of service (OOS) or returned to service that is not listed on the Plant Status form or the Plant Status board.

  NOTE: When activated, allow the EOF Information Coordinator to report offsite Radiological Status and Met Data.

- Significant system repair results.
- Protective Action Decisions for Energy Northwest emergency workers, e.g., Protected Area evacuations, KI for emergency workers.

3.4 OSC Information Coordinator Responsibilities

3.4.1 Transmit significant information from the OSC such as:

- Significant Repair Team activities and findings.
- Inquiries to establish personnel accountability.

3.5 EOF Information Coordinator Responsibilities

3.5.1 Transmit significant information from the EOF such as:

- Significant on-site and off-site coordination activities with outside agencies.
- If requested, provide Field Team readings.
- Significant technical analyses results reported by the Engineering staff.
- Dose projection results
- Notify all stations immediately when an offsite release has occurred.

4.0 ATTACHMENTS

None

DATE: 02/03/03

EDITORIAL

13.4.1

However:

- If it is determined that is safe to activate the ERO and all emergency centers, initiate the appropriate autodialer scenario.

- If it is determined that it is NOT safe to activate the ERO or any emergency center, AND after hours ERO response is required, initiate the security contingency autodialer scenario (#191).

  1) Based on consultation with the Security Supervisor, instruct on-site TSC and OSC responders to delay reporting to their emergency centers. Refer to form 26045 (pink form) to prepare an appropriate PA announcement for on-site responders. Otherwise, inform the OSC and TSC responders to report to their emergency center directly.

5.2.5 When emergency classification decisions are made, notify the SCC Duty Officer on the dedicated ring down line or available phone line if the dedicated line is unavailable to initiate the appropriate ERO notification system.

5.2.6 At Site Area Emergency, Direct the SCC to initiate Site One evacuation, and inform the SCC if an offsite radiological release is in progress.

- Complete the Classification Notification Form (CNF), Form 24075. Refer to PPM 13.2.2 to determine if the event classification also requires Protective Action Recommendations (PARs).

5.2.7 Ensure that plant PA announcements are made using the format of Form 26045. Also ensure that the override switch for the public address system is in the "override" position. Return it to the normal position when done.

5.2.8 Transmit the CNF to the SCC and offsite agencies via facsimile. If facsimile failure occurs, go directly to Crash phone notification, Step 5.2.10.

NOTE: If Crash system failure requires that you provide notification by other means, the SCC ringdown line may be used to contact the SCC Duty Officer. The Duty Officer will follow up to ensure notifications are completed. If using an alternate method, you may receive call backs to verify the notification is authentic.

DATE: 02/03/03

EDITORIAL

13.8.1

1.0 PURPOSE

This procedure provides instructions for the use of the computerized Emergency Dose Projection System (EDPS) to predict offsite dose rates, integrated doses and radioactive material deposition for locations within the 10-mile Plume Emergency Planning Zone (EPZ) and the 50-mile Ingestion EPZ. Actual manipulation of system display terminals is described in the Emergency Dose Projection System Users Manual referred to as the Users Manual. {R1594}

2.0 REFERENCES

2.1 Emergency Dose Projection System Users Manual

2.2 FSAR, Chapter 13.3, Emergency Plan, Section 5.3

2.3 NUREG 1228, Source Term Estimation During Incident Response to Severe Nuclear Power Plant Accidents

2.4 10 CFR 50 .47(b) {R1594}

2.5 PPM 13.1.1, Classifying the Emergency

2.6 PPM 13.2.1, Emergency Exposure Levels/Protective Action Guides

2.7 PPM 13.2.2, Determining Protective Action Recommendations

3.0 DEFINITIONS

3.1 Contours - Lines on the output map(s) connecting points of equal dose/dose rate/deposition.

3.2 Delta T - The temperature difference between two sensors located at different elevations on a meteorological tower.

3.3 EDPS (Puff) - A dose projection computer program which employs all the design capabilities of multi-meteorology station data, variable source term via iterative data entry, full release time specification and a full output map selection. EDPS will compute dose/dose rate/deposition based on effluent monitor releases or reactor conditions out to 50 miles. EDPS provides the opportunity to modify the source term, reactor power, and release rates. EDPS will accept data from up to 50 meteorology stations to more realistically model the radioactive release via the puff dispersion model.

2) 10 mile map (color)
3) 50 mile map (B&W)
4) 50 mile map (color)

2) If printing the maps, select the black and white maps ONLY.

3.4.3 Choose Dose to select the type of dose to display and contour values.

a. Contour options:

1) Clear Map Before Plot (This should normally be checked).

2) Recompute Contours (Choose this if manually entering contour levels).

3) Manually Enter Contour Levels (You may specify contour values, however, default values have been entered).

- To print a map showing a projected Plume boundary of 100 micro R, select 1.00 E -04 only.

4) During the ingestion phase, manual contour lines may be entered to project the 500 μR (relocation boundary), 20 μR and 0.4 μR (food control boundary). To select the correct value, enter the following:

5e-4 for 500 μR
2e-5 for 20 μR
4e-7 for 0.4 μR

- Select the ground shine projection option when calculating the food control and relocation boundaries.

b. In the Plume phase, choose:

1) Total Effective Dose Equivalent (TEDE) (rem).

2) Acute Thyroid Dose CDE (rem).

c. Map displays with contour lines drawn.

1) The value of each contour line is displayed in the upper left corner of the map.

DATE: 02/03/03

EDITORIAL

13.11.3

13.11.3

ENERGY NORTHWEST

USE CURRENT REVISION

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SECTION
EMERGENCY OPERATIONS FACILITY

TITLE
SITE SUPPORT MANAGER AND STAFF DUTIES

TABLE OF CONTENTS

GENERAL EMERGENCY
TEMPORARY FLIGHT RESTRICTION (TFR) REQUEST

Call the Auburn office of the FAA (Refer to Emergency Telephone Directory for current number) and make a statement similar to the following:

I am _____ of the Energy Northwest Emergency Operations Facility staff. Emergency conditions exist at Columbia Generating Station on the Hanford Reservation. We are releasing (expect to release) radioactive gas to the atmosphere. Accordingly, we recommend that the airspace for 10 miles around the Pasco approach vector (Pasco 305 radial, 18 DME, surface to 5,000 feet above mean sea level) be closed for unauthorized aircraft.

At the present time the plume is (or expected to be) located at: _____
_____
(Obtain plume direction and distance from REM)

Restrictions:

☐ This is expected to infringe upon the approaches to the Richland Airport, therefore, operations should not be authorized for Richland Airport.

☐ This is not expected to infringe upon the approaches to the Richland Airport, therefore, operations should be authorized for Richland Airport.

NOTE: If Richland airport closure is authorized, you may need to call FAA for authorization to land (or take off) aircraft bringing outside responders, or conducting aerial monitoring activity. FAA will need to know the aircraft's identification and arrival (or departure) time for each instance.

This is not expected to infringe on the Pasco Airport or responding emergency support personnel.

I may be reached at (509) (__ __) if you need further information verification, or if someone wishes to request authorization into the area.

CALL COMPLETED BY: _____ DATE: _____ TIME: _____

Copy & distribute to the following EOF personnel:

Radiological Emergency Manager
Security Manager
Benton County Representative
Franklin County Representative
DOE Representative

Comments: _____