

56-293

NUCLEAR ORGANIZATION
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DOCUMENT TITLE: ERP- Emergency Plan Implementing
Procedures Manual
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NRR-037

A045

CHANGE INSTRUCTION NOTICE (CIN)

Transmittal No.: 00- 120 Date: 5-24-00

Please update your copy of EPAP's
with the attachments to this transmittal as instructed below.

[illegible]

RType H8.24

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EP-IP-201	Emergency Plant Manager	1	05/14/99
EP-IP-202	Company Spokesperson	2	03/15/00
EP-IP-210	Control Room Augmentation	6	04/21/99
EP-IP-220	TSC Activation and Response	10	05/14/99
EP-IP-229	TSC/OSC Equipment Operation	4	10/31/97
EP-IP-230	OSC Activation and Response	2	05/14/99
EP-IP-231	Onsite Radiation Protection	4	07/22/98
EP-IP-240	Emergency Security Organization Activation and Response	8	03/15/00
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EP-IP-251	Offsite Radiation Protection	4	05/24/00
EP-IP-252	Facilities Support	6	09/28/99
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EP-IP-254	Communications Support	1	10/31/97
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EP-IP-300	Offsite Radiological Dose Protection	3	01/19/00
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PNPS	Emergency Plan Implementing Procedure Manual	Number: N/A
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EP-IP-501	Transport of Contaminated Injured Personnel	3	05/24/00
EP-IP-520	Transition and Recovery	4	12/31/99



RTYPE H8.24

PILGRIM NUCLEAR POWER STATION

Procedure No. EP-IP-251

OFFSITE RADIATION PROTECTION



Stop
Think
Act
Review

SAFETY RELATED

REVISION LOG

REVISION 4

Date Originated 3/00

Pages Affected

Description

All

Revise to reflect new procedures formatting. Revision bars are not shown for reformatting.

3,8-10

Change "field" to "Radiological Monitoring".

6

Change "BEC" to "PNPS". Change "Radiation Lab Coordinator" to "Radiation Lab and Monitoring Team Coordinator".

7

Revise to ease reading, move "approximately every 30 minutes" to follow "Periodically". Add reference to Attachment 2.

8

Change "Data" to "Information" in Attachment 2 title.

10

Correct typographical error from "and" to "any".

13

Correct typographical error from "Termination" to "Transition".

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1.0 PURPOSE

This Procedure establishes guidelines, responsibilities, and references for the Offsite Radiological Supervisor in the control of offsite radiological protection emergency response actions, and provides instructions for the activation and operation of the dose assessment area of the EOF.

2.0 REFERENCES

- [1] EP-PP-01, "PNPS Emergency Plan"

3.0 DEFINITIONS

None

4.0 DISCUSSION

None

5.0 RESPONSIBILITIES

- [1] The Offsite Radiological Supervisor is responsible for:
- (a) Evaluating and interpreting offsite radiological data during the course of the emergency to:
 - (1) Assess and direct emergency exposure controls for offsite personnel.
 - (2) Supervise the computation of dose projections and evaluation of projections and field data.
 - (3) Assist and advise technical support personnel on radiological issues.
 - (4) Provide technical support and coordination with NIAT and NRC teams.
 - (b) Briefing the Emergency Offsite Manager concerning present and projected offsite radiological conditions, Protective Action Recommendations, and radiologically based Emergency Action Levels.

- (c) Supervising offsite emergency radiation protection personnel.
- (d) Ensuring that habitability is checked and maintained within the EOF when conditions warrant.

[2] The Dose Assessment Engineers and the Radiation Lab & Monitoring Team Coordinator are responsible for assisting the Offsite Radiological Supervisor.

6.0 PROCEDURE

6.1 AREA ACTIVATION

- [1] Report to the EOF and sign in on the roster board.
- [2] Begin and maintain a log of all pertinent actions and decisions made during the course of the response.
- [3] Direct the Radiation Lab & Monitoring Team Coordinator to:
 - (a) Assign personnel to staff the Radiation Lab & Monitoring Teams (RMTs) and to maintain the meteorological and radiological status boards.
 - (b) Start the continuous air monitor and ensure that the portal monitor (or equivalent equipment) is operable.
 - (c) Ensure that dosimetry (TLDs and pocket dosimeters) is available.
- [4] Ensure that an individual exposure record is started for all personnel expected to receive exposure over the course of the emergency. Emergency exposure can be tracked on a PNPS Emergency Dose Card (EP-IP-440 Attachment 1) or other similar record.
- [5] Initially verify accountability of the Radiation Protection staff in the EOF by ensuring that all personnel have signed in on the roster board (and thereafter maintain continuous accountability).
- [6] Discuss the nature of the event with the Emergency Offsite Manager.
- [7] Inform the Emergency Offsite Manager that dose assessment capabilities are available in the EOF when the following requirements are met:
 - (a) Minimum staffing is on hand:
 - (1) Offsite Radiological Supervisor.
 - (2) One Dose Assessment Engineer.

- (b) Meteorological and radiological data are available.
- (c) Dose assessment functions are able to be performed.

6.2 OPERATION

- [1] Control offsite PNPS emergency worker exposure, accumulated dose, and the distribution of potassium iodide during the emergency (see EP-IP-440, *"Emergency Exposure Controls,"* for specific guidance).
- [2] Assess the status of current and projected offsite radiological conditions and based upon the circumstances:
 - (a) Evaluate meteorological conditions to determine the appropriate offsite Assembly Area in accordance with EP-IP-100 and communicate this determination to the Emergency Offsite Manager and the Onsite Radiological Supervisor.
 - (b) Discuss the dispatch of a Personnel Monitoring Team to prepare the Assembly Area prior to a Protected Area evacuation with the Onsite Radiological Supervisor (see EP-IP-231, *"Onsite Radiation Protection,"* for specific guidance) and the Logistics Supervisor (see EP-IP-410, *"Evacuation/Assembly,"* for specific guidance).
 - (c) Identify areas requiring radiological controls and areas containing potential radiological hazards.
 - (d) Direct the Radiation Lab & Monitoring Team Coordinator or another radiation protection qualified individual to perform habitability surveys. Caution all personnel in the facility against eating or drinking until surveys are completed as conditions warrant.
 - (e) Consider issuing SIDs to facility personnel or placing several SIDs throughout occupied areas of the facilities if radiological conditions warrant.
- [3] Direct the Dose Assessment Engineers to:
 - (a) Perform dose assessment and dose projection calculations in accordance with EP-IP-300, *"Offsite Dose Assessment."* Develop any associated PARs and conduct bounding calculations in accordance with EP-IP-400, *"Protective Action Recommendations."*
 - (b) Re-evaluate Protective Action Recommendations and bounding calculations whenever significant changes occur in meteorological conditions, release rates, or anticipated changes in plant status (for example, extent of expected fuel damage).
 - (c) Periodically compare PNPS dose projections to those computed by commonwealth and NRC dose assessment personnel.

- (d) Trend radiological release and meteorological data to aid in determination of environmental sample locations once the plume has dissipated.

[4] Direct the Radiation Lab & Monitoring Team Coordinator to:

- (a) Assemble, brief, and control the dispatch of the RMTs in accordance with Attachment 1.
- (b) Set-up contamination controls at the RMT/environmental sample entry point (delivery door at the rear of the EOF). The control point need not be completely placed in service until needed.
- (c) Prepare for and conduct the isotopic analysis of RMT air samples.
- (d) Coordinate collection, storage, and subsequent transport of samples. Ensure that environmental samples are split into two equal portions for analysis at independent locations.
- (e) Request assistance from offsite labs if needed.

[5] Assign and direct a staff member to man the HPN Line and:

- (a) Periodically (approximately every 30 minutes) complete a Radiological Information Form (Attachment 2).
- (b) Provide the NRC with radiological information associated with the emergency.
- (c) Provide the EOF Communications staff with completed Radiological Information Forms.

[6] In coordination with the Onsite Radiological Supervisor and the Radiation Lab & Monitoring Team Coordinator, assess staffing of Radiation Protection personnel assigned to the EOF. If additional personnel are necessary, consider the following:

- (a) If personnel are standing by on-site (such as in an Alert), obtain support from normal muster, shop or office locations.
- (b) If personnel have been evacuated to an Assembly Area, coordinate with the Logistics Supervisor to obtain additional support.

[7] Periodically confer with the following individuals to review actions being implemented, status of the situation, and progress toward resolution, and to ensure a coordinated response:

- (a) Emergency Offsite Manager.
- (b) Dose Assessment Engineers.

- (c) State Dose Assessor.
- (d) HPN Communicator.
- (e) Radiation Lab & Monitoring Team Coordinator.
- (f) EOF Operations Advisor.

- [8] Continuously monitor offsite radiological conditions and ensure that the Emergency Offsite Manager remains apprised of specific circumstances which impact the emergency classification and protective actions. Provide updates at least every 30 minutes.

6.3 DEACTIVATION

Direct the Radiation Lab & Monitoring Team Coordinator to:

- [1] Ensure that RMT personnel properly restore all equipment.
- [2] Ensure that any communication problems are identified to the Offsite Radiological Supervisor.
- [3] Arrange for proper disposition of all radioactive samples or waste.

7.0 RECORDS

All log sheets, forms, and other documentation shall be reviewed for completeness and forwarded to the Emergency Offsite Manager.

8.0 ATTACHMENTS

ATTACHMENT 1 - RADIOLOGICAL MONITORING TEAM DISPATCH AND
CONTROL GUIDELINES

ATTACHMENT 2 - RADIOLOGICAL INFORMATION FORM

ATTACHMENT 3 - DOCUMENT CROSS-REFERENCES

ATTACHMENT 4 - IDENTIFICATION OF COMMITMENTS

RADIOLOGICAL MONITORING TEAM DISPATCH AND CONTROL GUIDELINES

General Guidelines

1. Provide a list of names of individuals assigned as RMTs to the Onsite Radiological Supervisor to obtain current radiological exposure histories.
2. Direct RMTs to conduct inventories and equipment checks and obtain a briefing before leaving the facility.
3. Deposition surveys and environmental samples (soil, water, vegetation, etc.) are usually taken following plume passage. Efforts to determine the magnitude of any release and to define/track the plume will take priority over ingestion sampling activities.
4. Plume tracking can usually be performed by conducting a continuous survey while traveling radially through the plume. Boundary and centerline values are noted and reported.
5. Key locations for plume surveys are at the site boundary, 2 miles, 5 miles, and 10 miles for purposes of dose assessment and protective action recommendations.
6. While respiratory protection is available for RMTs, the conditions under which they would need to be used should be avoided if at all possible. For a severe release, consider defining the outer boundaries of the plume without passing through centerline in areas of high dose projections.
7. Air sample I-131 concentration can be determined both in the field and at the EOF. Other halogen isotopes are determined by estimation or laboratory analyses. Estimations of other isotopes are developed using design basis assumptions for damage type and reduction factors and should be used only in the absence of actual analysis data. For any release involving a significant halogen or particulate component, emphasis should be placed on obtaining detailed sample results as soon as possible.
8. Maintain a status map and log documenting:
 - a) Locations of sample/survey points.
 - b) Instrument readings.
 - c) Type and number of samples.
 - d) Location of dispatched field teams.
9. Prior to a release, coordinate with offsite agencies (if present) to determine dispatch locations for the RMTs (areas most likely to be impacted should a release occur).

RADIOLOGICAL MONITORING TEAM DISPATCH AND CONTROL GUIDELINES (CONT.)

10. During a release:
 - a) Coordinate with offsite agencies (if present) to determine dispatch locations for the RMTs (areas most likely to be impacted during the release).
 - b) Direct RMTs to define the plume in terms of centerline and boundaries.
 - c) Direct the collection of air samples, ensuring that RMT members do not spend an inordinate amount of time in the plume.
11. Following a release:
 - a) Coordinate with offsite agencies (if present) to determine dispatch locations for the RMTs (areas most likely impacted by the release).
 - b) Direct the conduct of deposition surveys and the collection of environmental samples by the RMTs.

Briefing Guidelines

1. Present any anticipated plant conditions, emergency conditions, and current and anticipated meteorology.
2. Type of data expected to be gathered and current priorities (surveys, air samples, environmental samples, etc.)
3. Use of available maps, preferred travel routes to sample/survey locations, and plume tracking strategies.
4. Performance of equipment and communications check prior to leaving the EOF parking lot. Action to be taken for a total loss of communications.
5. Disposition of sample media; that is, what to do with samples when and if they are requested.
6. Maximum dose and dose rates anticipated and allowed. Necessity of keeping ALARA concepts in mind during the surveys.
7. Safety precautions pertaining to both the task and to personnel and any special instructions applicable to the situation.

RADIOLOGICAL INFORMATION FORM

PILGRIM NUCLEAR POWER STATION

RADIOLOGICAL INFORMATION FORMDate: Time: **1 THIS IS:**☐ A DRILL☐ AN ACTUAL EVENT**2 EMERGENCY CLASSIFICATION:**☐ UNUSUAL EVENT☐ SITE AREA EMERGENCY☐ ALERT☐ GENERAL EMERGENCY**3 REACTOR STATUS:**☐ OPERATING AT _____%☐ SHUTDOWN AT _____☐ COLD SHUTDOWN**4 GENERAL INFORMATION:**☐ STATION EVACUATION OF NONESSENTIAL PERSONNEL☐ OFFSITE ASSISTANCE REQUESTED: ☐ AMBULANCE ☐ FIRE ☐ POLICE**5 PERSONNEL STATUS:**☐ EXPOSURE \geq 1 REM☐ INJURIES☐ CONTAMINATION☐ KI ISSUED**6 PNPS RESPONSE ACTIONS UNDERWAY:****7 ENTERGY'S PROTECTIVE ACTION RECOMMENDATIONS (PARs):**☐ NO PROTECTIVE ACTIONS NECESSARY☐ SHELTER SUBAREA(s) 1 2 3 4 5 6 7 8 9 10 11☐ EVACUATE SUBAREA(s) 1 2 3 4 5 6 7 8 9 10 11 12 (circle the affected subareas)

RADIOLOGICAL INFORMATION FORM (CONT.)

PILGRIM NUCLEAR POWER STATION RADIOLOGICAL INFORMATION FORM		Date: 	Time: 																														
8	METEOROLOGICAL INFORMATION: WIND DIRECTION: FROM _____° TO _____° STABILITY CLASS: _____ WIND SPEED: _____ mph PRECIPITATION: <input type="checkbox"/> YES <input type="checkbox"/> NO FORECAST: _____ _____ _____																																
9	OFFSITE RELEASE INFORMATION: <input type="checkbox"/> ACTUAL <input type="checkbox"/> ESTIMATED <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <u>RELEASE TYPE:</u> <input type="checkbox"/> NO RELEASE <input type="checkbox"/> LIQUID <input type="checkbox"/> GASEOUS </div> <div style="width: 45%;"> <u>RELEASE POINT:</u> <input type="checkbox"/> ELEVATED <input type="checkbox"/> GROUND LEVEL <input type="checkbox"/> FILTERED <input type="checkbox"/> UNFILTERED <input type="checkbox"/> MONITORED <input type="checkbox"/> UNMONITORED <input type="checkbox"/> CONTROLLED <input type="checkbox"/> UNCONTROLLED </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 45%;"> <u>RELEASE RATE:</u> NOBLE GAS: _____ μCi/sec IODINE: _____ μCi/sec </div> <div style="width: 45%;"> START TIME: _____ DURATION: _____ </div> </div>																																
10	DOSE PROJECTION: <table style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th></th> <th colspan="2" style="text-align: center; border-bottom: 1px solid black;"><u>DOSE RATE (MR/HR)</u></th> <th colspan="2" style="text-align: center; border-bottom: 1px solid black;"><u>DOSE (MREM)</u></th> </tr> <tr> <th style="text-align: left; border-bottom: 1px solid black;"><u>DISTANCE</u></th> <th style="text-align: center; border-bottom: 1px solid black;"><u>WHOLE BODY</u></th> <th style="text-align: center; border-bottom: 1px solid black;"><u>THYROID</u></th> <th style="text-align: center; border-bottom: 1px solid black;"><u>WHOLE BODY</u></th> <th style="text-align: center; border-bottom: 1px solid black;"><u>THYROID</u></th> </tr> </thead> <tbody> <tr> <td>SITE BNDRY</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>2 MILES</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>5 MILES</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>10 MILES</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </tbody> </table>				<u>DOSE RATE (MR/HR)</u>		<u>DOSE (MREM)</u>		<u>DISTANCE</u>	<u>WHOLE BODY</u>	<u>THYROID</u>	<u>WHOLE BODY</u>	<u>THYROID</u>	SITE BNDRY	_____	_____	_____	_____	2 MILES	_____	_____	_____	_____	5 MILES	_____	_____	_____	_____	10 MILES	_____	_____	_____	_____
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11	FIELD SURVEY DATA: <table style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;"><u>TIME</u></th> <th style="text-align: left; border-bottom: 1px solid black;"><u>LOCATION</u></th> <th style="text-align: center; border-bottom: 1px solid black;"><u>MR/HR</u> <u>WHOLE BODY</u></th> <th style="text-align: center; border-bottom: 1px solid black;"><u>μCi/cc</u> <u>IODINE CONC</u></th> <th style="text-align: center; border-bottom: 1px solid black;"><u>dpm/100cm²</u> <u>CONTAMINATION</u></th> </tr> </thead> <tbody> <tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr> </tbody> </table>			<u>TIME</u>	<u>LOCATION</u>	<u>MR/HR</u> <u>WHOLE BODY</u>	<u>μCi/cc</u> <u>IODINE CONC</u>	<u>dpm/100cm²</u> <u>CONTAMINATION</u>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____										
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12	COMPLETED: _____ APPROVED: _____ <div style="display: flex; justify-content: space-around; margin-top: 5px;"> Communicator Emergency Director </div>																																

DOCUMENT CROSS-REFERENCES

This Attachment lists those documents, other than source documents, which may be affected by changes to this Procedure.

Document Number	Document Title
EP-IP-100	Emergency Classification and Notification
EP-IP-231	Onsite Radiological Protection
EP-IP-400	Protective Action Recommendations
EP-IP-410	Evacuation/Assembly
EP-IP-520	Transition and Recovery
EP-AD-122	Maintenance of the Emergency Telephone Directory

IDENTIFICATION OF COMMITMENTS

This Attachment lists those external commitments (i.e., NRC commitments, QA audit findings, and INPO inspection items) implemented in this Procedure.

Reference Document	Commitment	Affected Section(s)/Step(s)
None		



RTYPE H8.24

PILGRIM NUCLEAR POWER STATION

Procedure No. EP-IP-259

EOF EQUIPMENT OPERATION



Stop
Think
Act
Review

SAFETY RELATED

REVISION LOG

REVISION 3

Date Originated 3/00

Pages Affected

Description

All

Revise to reflect new procedure formatting changes. Revision bars are not shown for reformatting.

3

Change "Boston Edison Company's" to "Pilgrim Station's".

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1.0 PURPOSE

This Procedure provides guidance on the verification and/or operation of emergency equipment located in the Emergency Operations Facility (EOF).

2.0 REFERENCES

- [1] NUREG-0696, "Functional Criteria for Emergency Response Facilities"
- [2] Pilgrim Nuclear Power Station Emergency Plan

3.0 DEFINITIONS

- [1] Emergency Operations Facility (EOF) - A near-site support facility for the management of Pilgrim Station's overall emergency response (including coordination with federal, state, and local officials), coordination of radiological and environmental assessments, and determination of recommended public protective actions.

4.0 DISCUSSION

None

5.0 RESPONSIBILITIES

None

6.0 PROCEDURE

If any piece of equipment is found inoperable according to the guidelines of this Procedure, the Logistics Supervisor should be notified.

6.1 PHOTOCOPIERS

- [1] Locate the photocopiers in the Reception area and in the Operations area.
- [2] Energize the photocopier by turning the power switch ON.

[3] Allow approximately 5 minutes for the copier to warm-up before processing copies.

Operate the machine as necessary.

6.2 TELECOPIERS

[1] Locate the telecopiers in the Operations area or Reception area.

[2] Confirm the power is on.

[3] Telecopier display should indicate the telecopier is ready for use.

[4] Operate using the general instructions posted on the top of the telecopier.

[5] For additional information or troubleshooting, use the Operator Guide.

6.3 MULTILINE TELEPHONES

[1] Locate the multiline telephones in the Communications Room area.

[2] Lift the handset. Sequentially touch each extension to confirm the dial tone.

6.4 CHLORIDE UPS

[1] Locate the Chloride UPS in the hallway outside the Mechanical Room.

[2] Loosen the velcro closures of the soundproofing on the side adjacent to the Mechanical Room door.

[3] Confirm the power is on by looking for the presence of green lights on the panel.

[4] Press the "Alarm Test/Reset" button.

[5] Verify that all yellow lights on the bottom row of the panel are off.

6.5 SIMPLEX 2351 MASTER CLOCK

[1] Locate the Simplex 2351 Master Clock in the Security room.

[2] Confirm that the LCD control panel shows correct time.

6.6 DIESEL GENERATOR

[1] Locate the Diesel Generator Transfer Switch in the southwest corner of the Electrical Room. The Transfer Switch is in a large bright green cabinet.

[2] Open the cabinet and verify that the "Automatic Position/Manual Position" toggle is in the "Automatic Position."

- [3] Locate the "Veeder Root" indication panel on the west wall of the Mechanical Room.
- [4] Push the "Function" button on the key pad.
- [5] Push the "Print" button on the key pad.
- [6] Confirm fuel level is greater than 2000 gallons on the printout.

6.7 SPDS

- [1] Locate the SPDS system in the Dose Assessment area.
- [2] Verify the SPDS monitor is on line and displaying information. If not, press a key on keyboard to de-activate screen saver mode.
- [3] If SPDS is still not functioning, contact computer engineers in the TSC.
- [4] For system operation, refer to PNPS 2.6.1 and PNPS 2.6.2.

6.8 CCTV SYSTEM

- [1] Locate the CCTV system in the Logistics Staff Room.
- [2] Verify all power switches are turned on or verify all monitor selection switches are set properly.
- [3] For system operation, refer to CCTV instructions located next to equipment.

7.0 **RECORDS**

There are no records generated as a result of the implementation of this Procedure.

8.0 **ATTACHMENTS**

ATTACHMENT 1 - DOCUMENT CROSS-REFERENCE

ATTACHMENT 2 - IDENTIFICATION OF COMMITMENTS

DOCUMENT CROSS-REFERENCE

This Attachment lists those documents, other than References, which may be affected by changes to this Procedure.

Document Number	Document Title
None	

IDENTIFICATION OF COMMITMENTS

This Attachment lists those external commitments (i.e., NRC commitments, QA audit findings, and INPO inspection items) implemented in this Procedure.

Reference Document	Commitment	Affected Section(s)/Step(s)
None		



RTYPE H8.24

PILGRIM NUCLEAR POWER STATION

Procedure No. EP-IP-315

PERSONNEL MONITORING TEAM ACTIVATION AND RESPONSE



Stop
Think
Act
Review

SAFETY RELATED

REVISION LOG

REVISION 4

Date Originated 2/00

Pages Affected

Description

All

Revise to reflect procedures formatting changes. Revision bars are not shown for reformatting.

4

Add reference to PNPS 6.2-018 to Step 5.0[2].

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1.0 PURPOSE

This Procedure outlines the steps to be taken at the Assembly Area should it become necessary to monitor and decontaminate evacuated personnel and vehicles from Pilgrim Nuclear Power Station (PNPS).

2.0 REFERENCES

- [1] EP-PP-01, "PNPS Emergency Plan"
- [2] PNPS 6.2-018, "Personnel Decontamination and Skin or DRP Dose Assessment"

3.0 DEFINITIONS

- [1] Assembly Area - An area designated for the assembly and monitoring of evacuated onsite personnel in the event of a protected area evacuation. The Assembly Areas are the Support Building cafeteria and the Chiltonville Training Center.
- [2] Clean Area - An area where surveys show levels of contamination are below the limits established by the Onsite Radiological Supervisor.
- [3] Potentially Contaminated Personnel - Personnel who exited the site wearing protective clothing (PCs) or who alarmed the access control point monitor.

4.0 DISCUSSION

None

5.0 RESPONSIBILITIES

The Personnel Monitoring Team is responsible for:

- [1] Directing and conducting contamination surveys of personnel and vehicles in accordance with this Procedure.
- [2] Directing and conducting personnel decontamination in accordance with this Procedure and PNPS 6.2-018, "Personnel Decontamination and Skin or DRP Dose Assessment".
- [3] Performing duties as directed by the Assembly Area Coordinator.

- [4] Controlling radioactive contaminated waste and returning it to PNPS after decontamination is completed.

6.0 PROCEDURE

6.1 DISPATCH

- [1] Personnel monitoring teams may be dispatched from the TSC or the EOF, or organized at the Assembly Area from available personnel, depending on the circumstances.
- [2] The Onsite Radiological Supervisor is responsible for control of the Personnel Monitoring Teams but may elect to transfer responsibility to the Offsite Radiological Supervisor.
- [3] When dispatched from the OSC:

NOTE

If the Chiltonville Training Center has been selected, personal vehicles are normally utilized as transportation to the Assembly Area.

- (a) Obtain a hand-held radio and perform a communication check with the TSC (other means of communications may be utilized such as cell phones or commercial telephone lines depending on the Assembly Area location and immediate circumstances).
- (b) Report to the Radiation Protection Coordinator for a briefing.
- (c) Obtain a pocket dosimeter (POD) and a TLD for each team member.
- (d) Log out of the OSC and proceed to the designated Assembly Area.
- [4] When dispatched from the EOF:
- (a) Utilize one of the RMT vehicle and communication sets and conduct checks in accordance with EP-IP-310, *"RMT Activation and Response"*.
- (b) Report to the RMT Coordinator for a briefing.
- (c) Obtain a pocket dosimeter (POD) and a TLD for each team member.
- (d) Log out of the EOF and proceed to the designated Assembly Area.
- [5] Inform the Assembly Area Coordinator of your arrival.

- [6] Obtain the Personnel Monitoring Emergency Kit at the Assembly Area.
- [7] Set up areas for personnel/vehicle monitoring as necessary.
- [8] Inform the Assembly Area Coordinator when ready to begin personnel monitoring.

6.2 PERSONNEL MONITORING AT THE ASSEMBLY AREA

To properly monitor Assembly Area personnel for contamination, the monitoring team members shall:

- [1] Measure general area background level. Record reading and all pertinent data on the Offsite Personnel Monitoring Form (Attachment 1).

NOTE

Should there be a significant change in the background level, notify the Onsite/Offsite Radiological Supervisor and request further instructions.

- [2] Report background reading to the Onsite/Offsite Radiological Supervisor and request the contamination level below which personnel and vehicles, if applicable, will be unconditionally released. Record this level on the Offsite Personnel Monitoring Form and/or the Offsite Vehicle Monitoring Form (Attachments 1 and 2).
- [3] Assemble all personnel in one central location and establish a known "clean area."

NOTE

Recommendations for clean and contaminated areas for each specific Assembly Area are located in EP-IP-410, "Evacuation/Assembly".

- [4] Survey the hands and feet of each individual (perform a whole body frisk of potentially contaminated individuals).
 - (a) If contamination is detected in the eyes, ears, nose, or throat, then notify the Offsite Radiological Supervisor immediately. Disposition of these personnel shall be in accordance with PNPS 6.2-018, "Personnel Decontamination and Skin or DRP Dose Assessment".
 - (b) Completely survey any individual with contamination readings greater than 100 cpm above background or the level specified by the Onsite/Offsite Radiological Supervisor and log results on the Offsite Personnel Monitoring Form.

- (c) Stamp or mark all uncontaminated personnel on the back of the hand with a "Release OK-HP" stamp and direct them to wait in a designated area (i.e., upstairs in the I&S Building) for further instructions.
- (d) Direct all contaminated individuals to a segregated area and decontaminate them in accordance with Section 6.3 as soon as possible.

[5] Report results to the Onsite/Offsite Radiological Supervisor and the Assembly Area Coordinator.

6.3 DECONTAMINATION OF PERSONNEL

[1] To effectively decontaminate Assembly Area personnel, monitoring team members shall:

- (a) Isolate an area within the Assembly Area to conduct personnel decontamination. Use EP-IP-410, *"Evacuation/Assembly"*, for guidance on decontamination area location.
- (b) Set up radwaste bags to receive used decontamination materials.
- (c) Put on protective clothing prior to decontaminating any personnel.

[2] Skin Decontamination

- (a) Attempt to decontaminate skin surfaces with soap and water. Be aware of the following:
 - (1) Remove clothing surrounding the affected area.
 - (2) Wash (but do not scrub) the affected area for 2 to 3 minutes using only enough water to wet the surface of the contaminated skin.
 - (3) The direction of washing should be from areas of low activity towards areas of high activity.
 - (4) Gently dry (but do not rub) the affected area using a soft towel, patting the area.
 - (5) Carefully deposit each used wipe in a radwaste bag immediately after use.

NOTE

Report any reddening or cracking of the skin occurring during decontamination to the Onsite/Offsite Radiological Supervisor.

- (6) Resurvey the cleaned area for contamination.

- (7) If contamination levels have decreased but are not reduced below 100 cpm above background or the level specified by the Onsite/Offsite Radiological Supervisor, repeat Steps (1) through (7) up to two more times.
 - (8) If after three area washings with soap and water, contamination levels are not reduced below 100 cpm above background or the level specified by the Onsite/Offsite Radiological Supervisor, then perform Step (b).
 - (b) Clean contaminated skin surfaces with waterless hand cleaning cream. Be aware of the following:
 - (1) Rub in the hand cleaner for approximately 2 to 3 minutes.
 - (2) Remove the hand cleaner using a soft towel.
 - (3) Rinse the remaining hand cleaner from the affected area using only as much water as absolutely necessary.
 - (4) Gently dry the affected area by using a soft towel.
 - (5) Carefully deposit each used wipe in a radwaste bag immediately after use.
 - (6) Resurvey the cleaned area for contamination.
 - (7) If contamination levels are not reduced below 100 cpm above background or the level specified by the Onsite/Offsite Radiological Supervisor, then perform Step (c).
 - (c) Notify the Onsite/Offsite Radiological Supervisor and request further instructions.
- [3] Document results of all personnel decontamination on Attachment 1 (Offsite Personnel Monitoring Form) and provide to the Assembly Area Coordinator.

6.4 VEHICLE MONITORING

NOTE

Take care when surveying vehicles. Avoid hot or moving components such as radiators and fans.

- [1] When directed by the Onsite/Offsite Radiological Supervisor to monitor Assembly Area vehicles for contamination, monitoring team members shall:
 - (a) Use the guidelines in EP-IP-410, "*Evacuation/Assembly*", to establish a survey area and recommended flow of traffic.
 - (b) Survey the air cleaner filters, wheel wells, steering wheel, and driver's seat of each vehicle:
 - (1) If either the wheel wells, air cleaner, steering wheel, or driver's seat is contaminated greater than 100 cpm above background or the level specified by the Onsite/Offsite Radiological Supervisor, then the vehicle is considered contaminated.
 - (2) Any vehicles found to be contaminated should be moved to a segregated portion of the parking lot for subsequent detailed monitoring and decontamination when conditions allow.
- [2] Document results of all Vehicle Monitoring on Attachment 2 (Offsite Vehicle Monitoring Form) and provide to the Assembly Area Coordinator.

6.5 TEAM DEACTIVATION

NOTE

The decision to deactivate Personnel Monitoring Teams will be made by the Onsite/Offsite Radiological Supervisor and the Assembly Area Coordinator.

- [1] Ensure all radioactive waste is properly surveyed, packaged, labeled, and returned to PNPS (in accordance with PNPS radioactive material shipping procedures) for disposal.

NOTE

This survey is only required if actual personnel or equipment contamination was discovered during monitoring.

- [2] Survey the Assembly Area and outside areas to check for possible spread of contamination.
- [3] Inventory and restock all Personnel Monitoring Kits used.
- [4] Return to the TSC/EOF and debrief with the Onsite/Offsite Radiological Supervisor, as appropriate.
 - (a) Submit all recorded surveys.
 - (b) Submit all completed Attachments.
 - (c) Report any procedural problems encountered.
 - (d) Report any equipment problems encountered.

7.0 RECORDS

- [1] The following records are generated as a result of the implementation of this Procedure:
 - (a) Offsite Personnel Monitoring Form.
 - (b) Offsite Vehicle Monitoring Form
- [2] All records shall be submitted to the Onsite or Offsite Radiological Supervisor as appropriate.

8.0 ATTACHMENTS

ATTACHMENT 1 - OFFSITE PERSONNEL MONITORING FORM

ATTACHMENT 2 - OFFSITE VEHICLE MONITORING FORM

ATTACHMENT 3 - DOCUMENT CROSS-REFERENCE

ATTACHMENT 4 - IDENTIFICATION OF COMMITMENTS

OFFSITE PERSONNEL MONITORING FORM

Date: _____

Team Leader: _____

Inst: _____ Ser No: _____ Cal Due: _____

Team Members

Probe: _____ Ser No: _____ Cal Due: _____

Background Reading: _____ (cpm or mR/hr)

Release Criteria: _____ (cpm or mR/hr)

[illegible]

OFFSITE VEHICLE MONITORING FORM

Date: _____

Team Leader: _____

Inst: _____ Ser No: _____ Cal Due: _____

Team Members

Probe: _____ Ser No: _____ Cal Due: _____

Background Reading: _____ (cpm or mR/hr)

Release Criteria: _____ (cpm or mR/hr)

[illegible]

DOCUMENT CROSS-REFERENCE

This Attachment lists those documents, other than source documents, which may be affected by changes to this Procedure.

Document Number	Document Title
EP-IP-231	Onsite Radiation Protection
EP-IP-310	RMT Activation and Response
EP-IP-410	Evacuation/Assembly

IDENTIFICATION OF COMMITMENTS

This Attachment lists those external commitments (i.e., NRC commitments, QA audit findings, and INPO inspection items) implemented in this Procedure.

Reference Document	Commitment	Affected Section(s)/Step(s)
None		



RTYPE H8.24

PILGRIM NUCLEAR POWER STATION

Procedure No. EP-IP-410

EVACUATION/ASSEMBLY



Stop
Think
Act
Review

SAFETY RELATED

REVISION LOG

REVISION 4

Date Originated 3/00

Pages Affected

Description

All

All pages formatted to reflect the updated procedures format. Revision bars are not shown for reformatting.

6

Add acronym for CTC.

6

Add references to title for EP-IP-240, "*Emergency Security Organization Activation and Response*."

7

Add reference to Wastewater Treatment Facility regarding Security dispatch for evacuation notification.

7

Add reference to Support Building to clarify location of entrance lobby.

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1.0 PURPOSE

This Procedure provides guidance and direction to ensure the prompt and orderly evacuation and assembly of personnel located at PNPS.

2.0 REFERENCES

- [1] EP-PP-01, "PNPS Emergency Plan"

3.0 DEFINITIONS

- [1] Assembly Area - A designated location, outside the Protected Area, where nonessential personnel may be directed to report.
- [2] Essential Personnel - Those persons assigned to fill operational and on-call positions in the PNPS Emergency Response Organization.
- [3] Evacuation - The orderly process by which designated personnel are directed to leave the PNPS Protected Area, site, or other affected area.
- [4] Nonessential Personnel - Those persons, both members and nonmembers of the Emergency Response Organization, not assigned immediate on-call emergency response duties.

4.0 DISCUSSION

None

5.0 RESPONSIBILITIES

- [1] The Emergency Plant Manager is responsible for directing the evacuation of any onsite areas and for coordinating the relocation of personnel to the designated assembly area.
- [2] The Assembly Area Coordinator is responsible for ensuring the orderly assembly and control of personnel at the Assembly Area.

6.0 PROCEDURE

6.1 LOCAL AREA EVACUATION AND ASSEMBLY

The Emergency Plant Manager (or the on-shift Emergency Director prior to facility activation) will direct and coordinate the evacuation of local areas within the Protected Area.

NOTE

Depending on the nature of the local hazard, personnel may already be in the process of evacuating the area prior to an announcement.

- [1] Ensure all personnel within the affected area at the time of the event are assembled at a safe, common location for assistance (such as medical or radiological) and/or debriefing as the situation permits.
- [2] Once the need to evacuate an area has been established:
 - (a) Determine a suitable location for personnel to assemble.
 - (b) Sound or have the Control Room sound the appropriate alarm and make the following announcement over the public address system, TWICE:

"Attention all personnel. Attention all personnel. All personnel in the (*Affected Location*) leave the area immediately and proceed to (*Assembly Area*). Further instructions will be provided at the (*Assembly Area*)."
- [3] Dispatch a team to the Assembly Area to provide support and information to the evacuees:
 - (a) Assign an individual to act as an Assembly Area Coordinator to provide a focal point for resource needs and information gathering.
 - (b) Assign Security and Radiation Protection personnel to assist the Assembly area Coordinator as necessary.
 - (c) Instruct personnel to attempt to account for all individuals known or suspected to have been in the evacuated area. Consider directing that site accountability be conducted if not already performed.
- [4] Consider dispatching a team to the affected area to ensure remaining personnel are informed of the assembly location and to control access.
- [5] Brief the Emergency Director, the Emergency Plant Operations Supervisor, and the Emergency Security Supervisor on the local area evacuation.

6.2 PROTECTED AREA EVACUATION

The Emergency Plant Manager (or the on-shift Emergency Director prior to facility activation) will direct and coordinate the evacuation of the Protected Area and the assembly of personnel.

NOTE

The Assembly Area is automatically determined as part of the Emergency Director's notification process at a Site Area or General Emergency (EP-IP-100, "*Emergency Classification and Notification*"). Section 6.2 of this Procedure is only applicable for Protected Area evacuations conducted at an Alert or Unusual Event classification level.

- [1] The Emergency Plant Manager (with the assistance of the Onsite Radiological Supervisor) will determine an appropriate Assembly Area prior to the announcement of a Protected Area Evacuation. Determine an appropriate Assembly Area based on meteorological conditions as follows:

<u>Assembly Area</u>	<u>Wind Direction (°from)</u>
Support Building Cafeteria	000°-289° or 324°-360°
Chiltonville Training Center (CTC)	290°-323°

- (a) Radiological conditions shall be considered when preparing to evacuate personnel. If high dose or dose rates will be encountered during evacuation, it may be better to shelter personnel onsite rather than expose them to any hazardous conditions.
- (b) Ensure that Security at the Access Control Point is informed of the decision to evacuate and the designated Assembly Area in order to make preparations for instructing personnel as they exit the Protected Area.
- (c) If CTC, see EP-IP-240, "*Emergency Security Organization Activation and Response*".

- [2] Sound or have the Control Room sound the Emergency Site Evacuation Alarm and make the following announcement over the public address system, TWICE:

"Attention all personnel. Attention all personnel. All on-call members of the Emergency Response Organization report to your designated emergency response facility. All other personnel evacuate to (Assembly Area). Obtain further instructions from Security at the exit gate."

- [3] Inform the Emergency Security Supervisor or the Security Shift Commander of the decision to evacuate and the designated Assembly Area location and direct him to:
- (a) Ensure instructions are provided to personnel exiting the site access control point in accordance Attachment 1 of this Procedure.
 - (b) Ensure a guard is dispatched to the Assembly Area (with keys) to ensure the area is accessible to evacuating personnel and to assemble and control personnel until an Assembly Area Coordinator arrives.
 - (c) Ensure a guard is dispatched to the Support Building, the I&S Building, and the Wastewater Treatment Facility to inform personnel of the evacuation order and to report to the designated Assembly Area (the building public-address system located in the entrance lobby can be used to assist in making the announcement in the Support Building).
- [4] Inform the Logistics Supervisor (in the EOF) of the decision to evacuate and the designated Assembly Area location and direct him to assign, brief, and dispatch an Assembly Area Coordinator. (If the EOF is not activated, assign an individual to perform duties of Assistant Area Coordinator.)
- [5] Brief the Emergency Director (and the Emergency Plant Operations Supervisor if staffed) on the Protected Area evacuation.

6.3 ACTIVATION OF THE DESIGNATED ASSEMBLY AREA

- [1] Proceed to the designated Assembly Area. Security has keys and will ensure that the Assembly Area facilities are open, as necessary.

NOTE

A Security Officer may have been assigned to coordinate Assembly Area activities prior to the arrival of the Assembly Area Coordinator.

- [2] Open the Assembly Area locker [locations provided on Attachment 1 (Assembly Area Instructions)] to obtain necessary equipment and supplies. Inform the Logistics Supervisor of any shortages.
- [3] If support personnel have not yet been designated as assistants, perform the following:
- (a) Designate assistants as needed from arriving or present personnel as they become available.
 - (b) Brief assistants on anticipated actions.
 - (c) Provide assistants with identifying hats.

- [4] Ensure that Radiation Protection and Security personnel are available to provide support, if appropriate.
- [5] Ensure Assembly Area assistants, Security, and Radiation Protection personnel are aware of the Assembly Area layout and the proper routing of arriving personnel in accordance with Attachment 1 (Assembly Area Instructions).
- [6] Establish communications with the Logistics Supervisor.
 - (a) Discuss radiological conditions and potential hazards.
 - (b) Provide a telephone number at which you can be reached.

6.4 OPERATION OF THE DESIGNATED ASSEMBLY AREA

- [1] Ensure that arriving personnel sign the Assembly Area Attendance Roster (Attachment 2).
- [2] Segregate personnel known or suspected of being contaminated until they are surveyed and decontaminated, if necessary
- [3] Brief personnel as necessary.

NOTE

If the facsimile machine is not available, the number and skills of personnel should be relayed by telephone.

- [4] Forward the Assembly Area Attendance Roster to the Logistics Supervisor using the facsimile machine in the Support Building or the Chiltonville Training Center.
- [5] Discuss the release of unnecessary personnel with the Logistics Supervisor. Only individuals who may be needed on short notice or contaminated individuals should be retained at the Assembly Area.
 - (a) Based upon the Logistics Supervisor's instructions, brief personnel on any hazards or routes to be avoided.
 - (b) Ensure that transportation is available for all departing personnel.
- [6] Provide additional personnel to support the emergency response effort as directed.
- [7] Obtain food, water, or other supplies from the Logistics Supervisor, if necessary.
- [8] Ensure the orderly evacuation of personnel from the Assembly Area, if necessary:
 - (a) Contact the Logistics Supervisor and discuss radiological conditions or potential hazards.

- (b) If evacuating to another Assembly Area, ensure Assembly Area assistants, Security, and Radiation Protection personnel are dispatched promptly to begin setup.
- (c) Verify that personnel have transportation and maps, and are briefed on radiological conditions and any hazards.
- (d) Leave after all personnel have evacuated the Assembly Area.
- (e) Reestablish communications with the Logistics Supervisor upon arrival at the new Assembly Area.

6.5 DEACTIVATION OF THE DESIGNATED ASSEMBLY AREA

- [1] Ensure the Assembly Area is restored to its pre-assembly condition.
- [2] Inventory the Assembly Area Kit, noting any shortages.
- [3] Turn in the vehicle and equipment as directed by the Logistics Supervisor.

7.0 **RECORDS**

This Procedure generates the Assembly Roster, which shall be given to the Logistics Supervisor when completed.

8.0 **ATTACHMENTS**

ATTACHMENT 1 - ASSEMBLY AREA INSTRUCTIONS

ATTACHMENT 2 - ASSEMBLY AREA ATTENDANCE ROSTER

ATTACHMENT 3 - DOCUMENT CROSS-REFERENCES

ATTACHMENT 4 - IDENTIFICATION OF COMMITMENTS

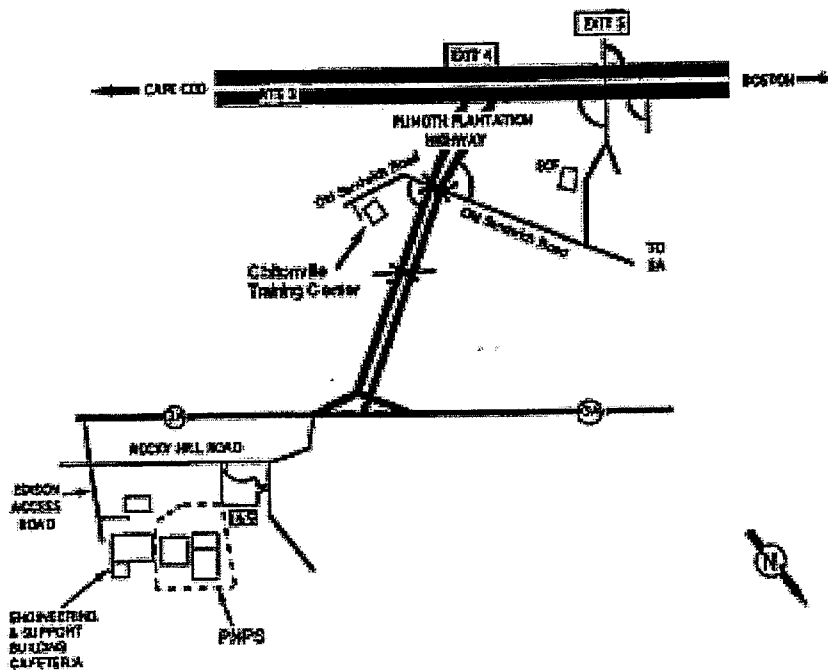
ASSEMBLY AREA INSTRUCTIONS

1. If appropriate, proceed to the Assembly Area using Sheet 2 –Evacuation Routes.
2. Using the appropriate layout from these instructions as a guide, assure the Assembly Area is activated and prepared to receive evacuating personnel:
 - Support Building Cafeteria – Sheet 3
 - Chiltonville Training Center – Sheet 4
3. Assistants may be chosen, as necessary, to manage Assembly Area activities.

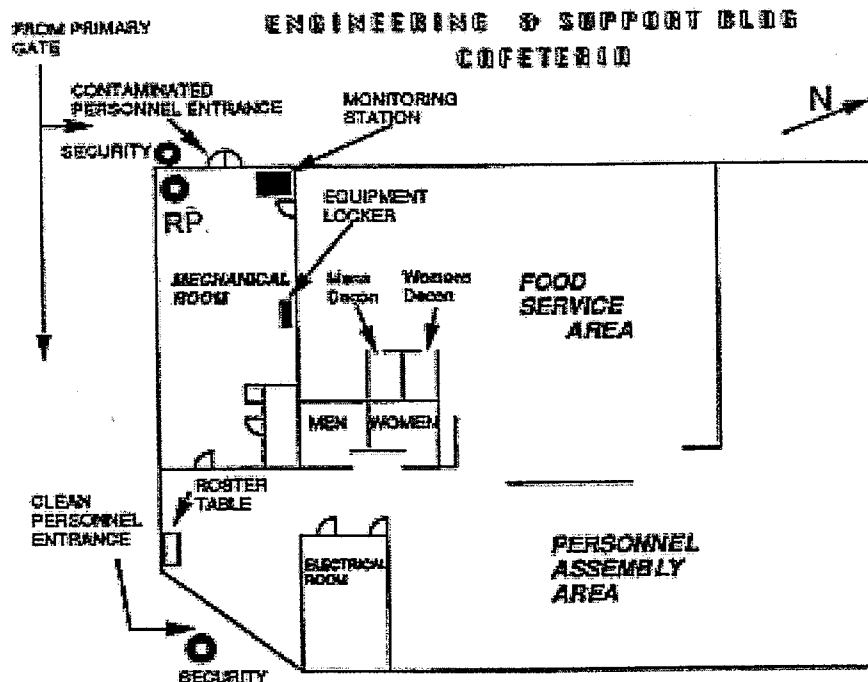
ASSEMBLY AREA INSTRUCTIONS (CONT.)

**CHILTONVILLE TRAINING
CENTER**

1. Take Rocky Hill Road north to Rte. 3A.
2. Follow Rte. 3A north about 300 yards and bear left onto Plymouth Plantation Highway.
3. Take the Chiltonville exit off of Plymouth Plantation Highway.
4. Turn right onto Old Sandwich Road.
5. Turn left at the Boston Edison Sign.



ASSEMBLY AREA INSTRUCTIONS (CONT.)

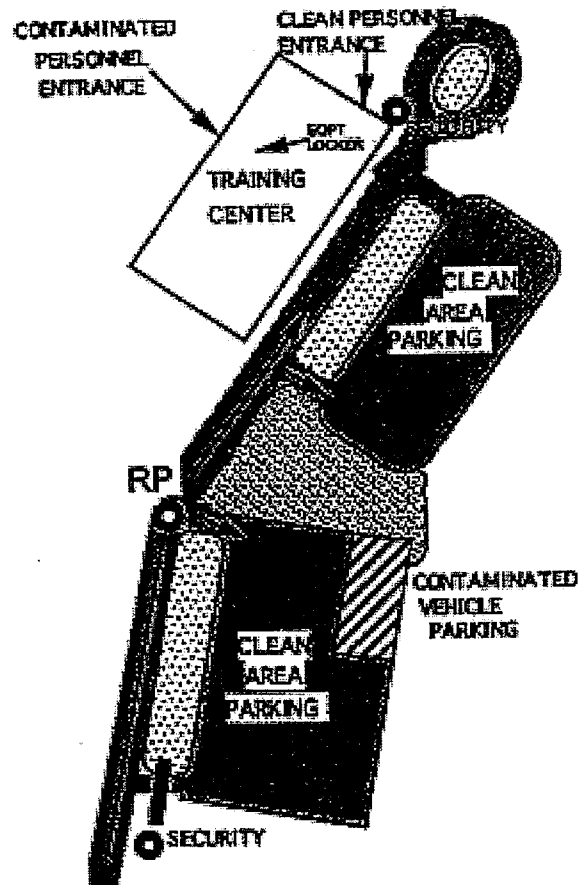


Assembly Area Instructions:

1. If necessary, Security can unlock the building.
2. Security should be located as designated. Assistants may be used in place of security to assist in directing personnel.
3. If the gatehouse portal monitors are working, RP will normally process potentially contaminated personnel through the back doors of the cafeteria.
4. Security should direct clean evacuating personnel to the main entrance of cafeteria and contaminated personnel to the back door (the double doors on the loading dock) of the cafeteria.
5. Uncontaminated personnel should assemble in the personnel assembly area.
6. Assistant should help to ensure that all personnel are signed in.
7. A telephone is available on the north wall of the cafeteria.
8. Fax machines are available in the Engineering & Support (E&S) building.
9. Ensure Evacuation route maps are distributed as necessary.
10. The mechanical room and the food service area may be used for decontamination and assembly of contaminated personnel, as required by RP.

ASSEMBLY AREA INSTRUCTIONS (CONT.)

CHILTONVILLE ASSEMBLY AREA



Assembly Area Instructions:

1. Security can open Chiltonville Training Center, if necessary.
2. Security should direct uncontaminated personnel to North entrance of Training Center.
3. Potentially contaminated personnel shall be directed to back door (west side) of Training Center.
4. Radiological Protection should survey vehicle(s) and personnel for radioactive contamination as directed by the Offsite Radiological Supervisor.
5. Radiological Protection should direct vehicles to appropriate parking area (clean/contaminated).
6. Security shall direct traffic as requested by Assembly Area Coordinator.
7. Telephones are located throughout the facility. A fax machine is located in the message center.

ASSEMBLY AREA ATTENDANCE ROSTER

[illegible]

Page _____ of _____

DOCUMENT CROSS-REFERENCES

This Attachment lists those documents, other than source documents, which may be affected by changes to this Procedure.

Document Number	Document Title
EP-IP-201	Emergency Plant Manager
EP-IP-231	Onsite Radiation Protection
EP-IP-240	Emergency Security Organization Activation and Response
EP-IP-251	Offsite Radiation Protection
EP-IP-252	Facilities Support

IDENTIFICATION OF COMMITMENTS

This Attachment lists those external commitments (NRC commitments, QA audit findings, and INPO inspection items) implemented in this Procedure.

Reference Document	Commitment	Affected Section(s)/Step(s)
None		



RTYPE H8.24

PILGRIM NUCLEAR POWER STATION

Procedure No. EP-IP-501

TRANSPORT OF CONTAMINATED INJURED PERSONNEL



Stop
Think
Act
Review

SAFETY RELATED

REVISION LOG

REVISION 3

Date Originated 3/00

Pages Affected

Description

All	Revise to reflect new Procedures format. Revision bars are not shown for reformatting.
3-5	Change references from "Nuclear Watch Engineer" to "Operations Shift Superintendent".
4,5,11	Change title of EP-IP-100 from "Emergency Classification" to "Emergency Classification and Notification".
7	Change references from "BEC" to "PNPS".
7	Change "Company" to "Station".
8,10	Change "EP Department Manager" to "EP Superintendent".
11	Delete reference to previously retired EP-IP-110.

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1.0 PURPOSE

This Procedure describes the process of moving a contaminated injured person from the point of final first aid and decontamination efforts to a medical facility.

2.0 REFERENCES

- [1] NOP85A2, "Quality Assurance Records System"
- [2] PNPS 5.5.3, "Medical Emergency Response Procedure"
- [3] PNPS Emergency Plan

3.0 DEFINITIONS

None

4.0 DISCUSSION

None

5.0 RESPONSIBILITIES

- [1] The Operations Shift Superintendent/Emergency Plant Manager is responsible for directing Radiation Protection personnel to implement their section of this Procedure.
- [2] The Operations Shift Superintendent/Emergency Director is responsible for evaluation of the incident in relation to the Emergency Action Levels (EAL) of EP-IP-100, "Emergency Classification and Notification", and making the appropriate event classification.
- [3] The Senior Medical Responder is responsible for first aid and, with the assistance of Radiation Protection personnel, preparation of the victim for transport.
- [4] Radiation Protection personnel are responsible for assisting the medical response personnel in preparation of the victim for transport, contamination control during transfer, and to provide radiological controls, advice, and assistance at the medical facility.

6.0 PROCEDURE

6.1 INITIATING CONDITIONS

- [1] Medical personnel have been dispatched in accordance with PNPS 5.5.3, "*Medical Emergency Response Procedure*".
- [2] Decontamination has been performed to the extent medical conditions allow.

NOTE

Transportation of a contaminated, injured individual to an offsite medical facility requires implementation of the PNPS Emergency Plan. Refer to EP-IP-100, "*Emergency Classification and Notification*", for appropriate event classification.

- [3] It has been determined that the contaminated, injured persons(s) will require offsite medical treatment.

6.2 OPERATIONS SHIFT SUPERINTENDENT (EMERGENCY PLANT MANAGER IF THE TSC IS ACTIVATED)

- [1] Contact Radiation Protection and ensure that at least one Radiation Protection Technician is assigned to assist at the scene for preparation of the individual(s) for transport, contamination control, and assistance at the medical facility. This Radiation Protection Technician should accompany the ambulance to the hospital.

NOTE

Emergency Room and Fire Department phone numbers can be found in Section 4.1 of the Emergency Telephone Directory.

- [2] Verify with the Plymouth Fire Department which hospital has been designated to receive the injured person(s). (Jordan Hospital is the primary hospital.)
- [3] Contact a Radiation Protection Supervisor (on-site or at home) and request that two additional Radiation Protection personnel, as available, report directly to the designated hospital to provide assistance as specified in this Procedure.
- [4] Notify the designated hospital's Emergency Room that a contaminated, injured person(s) is/are being transported to their facility.

6.3 SENIOR MEDICAL RESPONDER/RADIATION PROTECTION PERSONNEL

1] The Senior Medical Responder, with Radiation Protection Technician assistance, is responsible for preparing the individual for movement to the ambulance as follows:

- (a) Fill out Attachment 1 (Body Map).
 - (1) Sketch in contamination locations and levels.
 - (2) Show location of any open wounds or significant injuries.
 - (3) Label any control devices left in place (e.g., pressure bandages, tourniquets, splints, restraints).
 - (4) List decontamination methods attempted, including results and cleaning fluids used, if any.
 - (5) Ensure the "Body Map" (or an uncontaminated copy) accompanies the injured individual(s) to the hospital.
- (b) Contamination control of the contaminated, injured person(s) should be maintained by:
 - (1) Considering changes in the person(s) medical condition.
 - (2) Covering contaminated areas with a layer of absorbent material.
 - (3) In case of high contamination, covering the absorbent material with a layer of plastic wrapped as airtight as possible without restricting blood flow.
 - (4) Considering requirements for enroute monitoring and treatment, arranging wrappings to allow for needed access.
- (c) Arrange maximum comfort for the injured person(s):
 - (1) Considering weather, dress or bundle the individual(s) appropriately.
 - (2) Bag any personal effects (e.g., eyeglasses, dentures, hearing aid) and attach to transport device.
 - (3) Arrange for Security to take custody of the injured person's valuables, dosimetry, and security badge.
- (d) Move to transport and load:
 - (1) Move by most expeditious means and route to meet the ambulance personnel (as decided by Medical personnel).

- (2) Conduct a briefing with ambulance personnel.
- (3) Assist in replacing PNPS equipment with that of the emergency medical service if possible.
- (4) Assist ambulance personnel in preparing the vehicle to minimize contamination. Provide materials as required or requested.
- (5) Assist the ambulance personnel in donning protective clothing, as appropriate.
- (6) Assist in loading only as requested by the emergency medical service personnel.
- (7) A Radiation Protection Technician with monitoring equipment shall accompany the injured person(s) in the ambulance or, if conditions prohibit, follow in Station car or privately-owned vehicle.

[2] Radiation Protection Supervision shall:

- (a) Assign two Radiation Protection (RP) personnel to meet the ambulance at the designated hospital.

[3] The Radiation Protection Technician with the ambulance shall:

- (a) Provide monitoring and contamination control advice to ambulance personnel.
- (b) Assist in off-loading the patient at the hospital only as requested by emergency medical service personnel.
- (c) Call PNPS (preferably the Control Room) to inform them of patient's arrival at the hospital.
- (d) Recover dosimetry used by ambulance personnel, if not already collected by Station Security.
- (e) Survey the ambulance and hospital entrance for contamination, and collect any trash for disposal. Release the ambulance as soon as possible.
- (f) If the ambulance is found to be contaminated, decontaminate using available resources. If the ambulance personnel are found to be contaminated, request that they be decontaminated at the hospital Radiological Emergency Area (REA) prior to release.
- (g) Give final survey results (ambulance and hospital entrance) to the Recording Nurse.
- (h) Assist the personnel supporting the hospital Radiological Emergency Team.

- [4] The Radiation Protection (RP) personnel reporting directly to the hospital shall:
- (a) Open the hospital emergency kit and perform necessary instrument checks.
 - (b) Assist in preparation of the Radiological Emergency Area (REA).
 - (c) One RP person shall don protective clothing to work inside the REA monitoring the patient, equipment, materials, and personnel.
 - (d) One RP person shall work from the clean side of the barrier monitoring all equipment, materials, and personnel leaving the REA.

NOTE

Ensure all radioactive waste is properly surveyed, packaged, labeled, and returned to PNPS (in accordance with PNPS radioactive material shipping procedures) for disposal.

- (e) When the individual is released or admitted to the hospital, assist in monitoring and cleanup of the REA.
- (f) One RP person shall remain at the REA until decontamination of the facility is complete and shall perform a final survey prior to returning to site.
- (g) Obtain copies of all appropriate logs and monitoring records from the Recording Nurse for submittal with reports. If originals of documents are not available, make copies.

7.0 RECORDS

- [1] All logs, data sheets, forms, and other records generated during the implementation of this Procedure are classified as Quality Assurance Records in accordance with NOP85A2, *"Quality Assurance Record System"*.
- [2] All QA records generated, except Control Room Logs, shall be forwarded to the EP Superintendent.
- [3] The EP Superintendent shall prepare a report on the incident which, together with all supporting data, shall be filed and retained as required by NOP85A2, *"Quality Assurance Records System"*.

8.0 ATTACHMENTS

ATTACHMENT 1 - BODY MAP

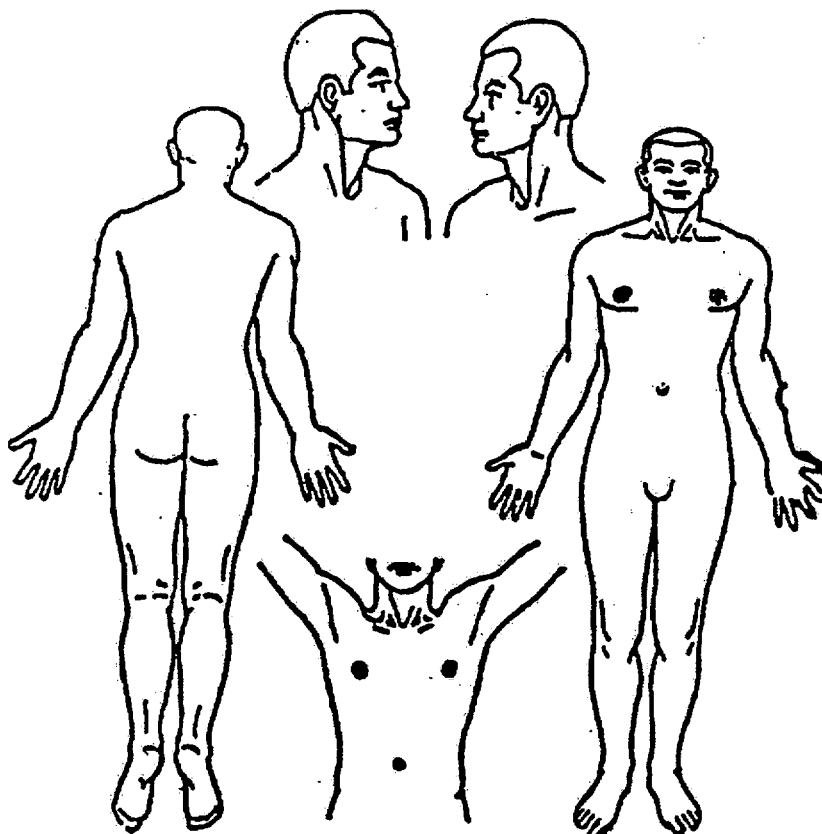
ATTACHMENT 2 - DOCUMENT CROSS-REFERENCE

ATTACHMENT 3 - IDENTIFICATION OF COMMITMENTS

BODY MAP

Rtype H7.40

1. Indicate Contaminated Areas including Location, Degree of Contamination, and Decontamination Effort
2. Indicate Location of Wounds



Type of Meter/Probe Used: _____
(indicate model and number)

Cal Due Dates: _____
(meter and probe)

Signature of Technician: _____

*Reviewed: _____
EP Superintendent

*Review not required prior to transport of victim.

DOCUMENT CROSS-REFERENCE

This Attachment lists those documents, other than References, which may be affected by changes to this Procedure.

Document Number	Document Title
EP-IP-100	Emergency Classification and Notification
PNPS 5.5.3	Medical Emergency Response Procedure

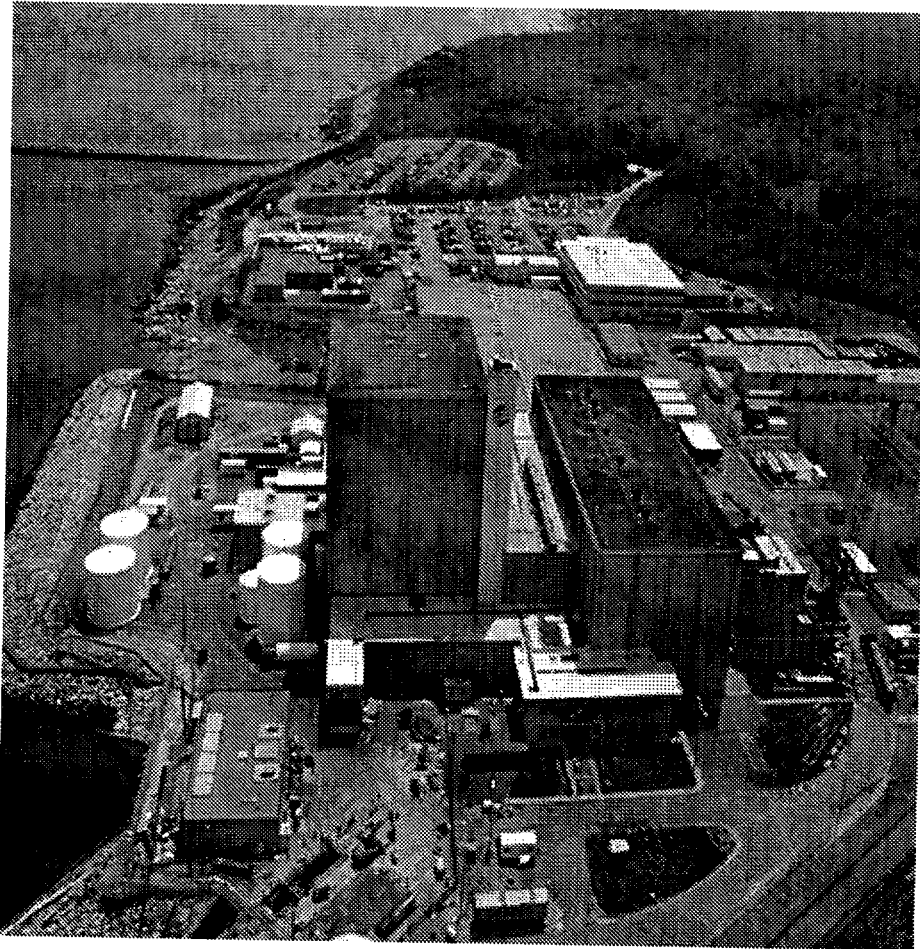
IDENTIFICATION OF COMMITMENTS

This Attachment lists those external commitments (NRC commitments, QA audit findings, and INPO inspection items) implemented in this Procedure.

Reference Document	Commitment	Affected Section(s)/Step(s)
NRC Inspection Finding 86-39-03	Evaluate the need for additional RP personnel for support of Jordan Hospital	6.2[2], 6.3[2](a), 6.3[4]

PILGRIM NUCLEAR POWER STATION

EMERGENCY PLAN IMPLEMENTING PROCEDURES



Binder # //



PNPS



EMERGENCY PLAN IMPLEMENTING PROCEDURES

Binder

II