



PECO NUCLEAR

A Unit of PECO Energy

10CFR50, Appendix E

Nuclear Group Headquarters
200 Exelon Way
Kennett Square, PA 19348

October 17, 2000

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DPR-56

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

Subject: Peach Bottom Atomic Power Station, Units 2 & 3
Emergency Response Procedure Revisions

Dear Sir/Madam:

Enclosed is the following procedure revision to the Emergency Response Procedures (ERPs) for Peach Bottom Atomic Power Station (PBAPS), Units 2 and 3. This procedure is required to be submitted within thirty (30) days of its revision in accordance with 10CFR50, Appendix E, and 10CFR50.4.

- ERP-620, Revision 12, "Health Physics Group"

Also, enclosed is a copy of a computer generated report index identifying the latest revisions of the PBAPS ERPs.

If you have any questions or require additional information, please do not hesitate to contact us.

Very truly yours,

James A. Hutton
Director - Licensing

Attachments

cc: H. J. Miller, Administrator, Region I, USNRC (2 copies)
A. C. McMurray, USNRC Senior Resident Inspector, PBAPS

A045

Effective Date: 10/13/00

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MES/mes

PECO NUCLEAR
PEACH BOTTOM UNITS 2 AND 3
EMERGENCY RESPONSE PROCEDURE

ERP-620 HEALTH PHYSICS GROUP

1.0 RESPONSIBILITIES

1.1 Health Physics Group Leader (HPGL)

- 1.1.1 Supports directives of the Operations Support Center (OSC) Director AND Health Physics Team Leader (HPTL).
- 1.1.2 Directs activities of Health Physics Group members.
- 1.1.3 Coordinates accident mitigation actions with the Operations Group Leader (OGL) and Maintenance Team Leader (MTL).
- 1.1.4 Keeps OSC Director apprised of Health Physics group status and activities.
- 1.1.5 Ensures timely relief of Health Physics Group Members.
- 1.1.6 Ensures radiological exposure tracking for personnel in the OSC.
- 1.1.7 Ensures facilities habitability evaluations are performed.

1.2 Health Physics Group Members (HPGM)

- 1.2.1 Performs OSC activation activities in accordance with ERP-230 AND as directed by HPGL.
- 1.2.2 Conducts plant surveys AND provides Health Physics (HP) coverage as directed by HPGL.
- 1.2.3 Performs HP functions assigned by the HPGL.

2.0 INITIAL ACTIONS

2.1 HPGL shall:

- 2.1.1 Report to the OSC.
- 2.1.2 Direct HP OSC activation actions per ERP-230.
- 2.1.3 Request plant status from the OSC Director.
- 2.1.4 Request initial response requirements from the HPTL.
 - 2.1.4.1 Determine proper evacuation assembly area, based on current meteorological conditions, should an evacuation become necessary.
 - 2.1.4.2 Identify any known radiological hazards.

NOTE:

ADDITIONAL HEALTH PHYSICS INSTRUMENTATION SHOULD BE OBTAINED, AS NEEDED, FROM THE HEALTH PHYSICS INSTRUMENT AREA PRIOR TO PLANT CONDITIONS DEGRADING. THE EQUIPMENT SHOULD BE RELOCATED TO THE OSC OR OTHER STABLE PLANT AREA.

- 2.1.5 Assign HPGM(s) to:
 - 2.1.5.1 Staff field survey team(s). (Initially assign one group member to report to the TSC. Assign additional group members as requested by the HPTL).
 - 2.1.5.2 Staff OSC Team Check Point.
 - 2.1.5.3 Maintain Area Radiation Monitor (ARM) status.
 - 2.1.5.4 Conduct habitability surveys as necessary.
 - a. Control Room
 - b. Plant Entrance And Radiological Laboratory (PEARL)
 - c. OSC
 - d. Guard House
 - e. Secondary Alarm Station (SAS)
 - 2.1.5.5 Initiate set up of the evacuation assembly area in accordance with ERP-640.

- 2.1.6 Notify HPTL
AND OSC Director:
 - 2.1.6.1 HP Technicians available for assignment.
 - 2.1.6.2 Results of initial habitability surveys.
- 2.2 Group member assigned to OSC Team Check Point.
 - 2.2.1 Set up two PIMS terminals and verify a PIMS RWP record for responding to emergencies exists
OR create a new record.
 - 2.2.2 Set up RADOS readers and verify operability.
- 2.3 Group member assigned as ARM Status Keeper shall:
 - 2.3.1 Obtain current ARM status via the Plant Monitoring System (PMS), fax from the Technical Support Center (TSC)
OR verbally from Control Room (CR).
- 2.4 Plant Survey Group members conducting habitability surveys shall:
 - 2.4.1 Complete Attachment 1 "Health Physics Habitability Check-Off List".
 - 2.4.1.1 Enter results on ERP-620, Appendix 1 "Habitability Status Log Sheet".
 - 2.4.1.2 Report results to HPGL.

3.0 CONTINUING ACTIONS

NOTE:

1. TO THE EXTENT PRACTICABLE, PLANT HEALTH PHYSICS PROCEDURES WILL BE UTILIZED.
2. NORMAL REQUIREMENTS OF HP-C-310, ACCESS CONTROL PROGRAM, ARE WAIVED.
3. HEALTH PHYSICS ESCORT REQUIREMENTS MAY BE WAIVED IF THE FOLLOWING CONDITIONS ARE MET:
 - a. THE ENTRY IS OF SHORT DURATION AND WELL DEFINED IN TERMS OF RADIOLOGICAL HAZARD, LOCATION AND WORK TO BE PERFORMED;
 - b. EXPOSURE RATES ARE LESS THAN 100 MR/HR.

4. A FILTER RESPIRATOR MAY BE SUBSTITUTED FOR A SELF CONTAINED BREATHING APPARATUS(SCBA) IF IT IS KNOWN THAT HIGH RADIOIODINE LEVELS ARE NOT PRESENT AND AREA IS NOT IMMEDIATELY DANGEROUS TO LIFE AND HEALTH(IDLH) OR THE USE OF A SCBA WOULD PHYSICALLY RESTRICT ENTRY INTO THE AREA.
5. IF A SCBA IS NOT USED DUE TO PHYSICAL ACCESS RESTRICTIONS AND RADIO-IODINE IS KNOWN OR SUSPECTED TO BE PRESENT, THYROID BLOCKING AGENT SHOULD BE EVALUATED IN ACCORDANCE WITH ERP-680, CONTROL OF THYROID BLOCKING POTASSIUM IODIDE (KI) TABLETS.
6. UNLESS SPECIFIC NEEDS DICTATE, IN-PLANT RADIATION SURVEYS SHOULD BE CONDUCTED IN CONJUNCTION WITH ENTRIES PERFORMED FOR OTHER PURPOSES. AREA RADIATION MONITOR READINGS SHOULD BE USED IN LIEU OF PRE-ENTRY SURVEYS WHENEVER POSSIBLE.
7. A MINIMUM OF TWO PEOPLE WILL BE ASSIGNED TO AN ENTRY TEAM AND AT NO TIME WILL ANYONE BE ALLOWED TO TRAVEL THROUGH OR REMAIN IN A POTENTIALLY HIGH RADIATION AREA OR OTHERWISE HAZARDOUS AREA UNLESS THEY ARE WITHIN SIGHT OF ANOTHER TEAM MEMBER. (Ref. 6.5.1) **CM-1**

CAUTION

UNTIL IT HAS BEEN OTHERWISE CONFIRMED, AIRBORNE RADIOIODINE ACTIVITY SHOULD BE ASSUMED TO BE PRESENT IN ALL AFFECTED AREAS OF THE PLANT

3.1 HPGL shall:

- 3.1.1 Ensure a log of Health Physics group activities is kept.
- 3.1.2 **IF** an entry is required into a high radiation **OR** airborne radioactivity area, **THEN** discuss the entry with the HPTL using Attachment 3, "Health Physics Considerations" as a guide.
- 3.1.3 **IF** non-radiological hazards are expected, **THEN** request HPTL to obtain guidance from Industrial Risk Management representative.
- 3.1.4 Direct surveys to be conducted **OR** assign HP coverage to support OSC Director directives.
 - 3.1.4.1 Advise HPGM assigned to survey or repair squad of current radiological conditions.

- 3.1.4.2 Specify protective measures using ERP-620, Appendix 3, "Health Physics Briefing Guide".
- 3.1.4.3 **IF** exposure exceeding Administrative limits is expected, **THEN** request Emergency Radiation Exposure Limits authorization through HPTL.
- 3.1.4.4 Establish communication with HPGM(s).
- 3.1.5 Dispatch teams to perform surveys in-plant **OR** on-site.
- 3.1.6 Dispatch group members to provide HP coverage for emergency repair teams.
- 3.1.7 Direct all teams to stop at OSC Team Check Point before leaving the OSC.
- 3.1.8 Keep apprised of status of survey and repair squads.
- 3.1.9 **IF** radiological conditions change that impact survey or repair teams, **THEN** notify affected HPGM.
- 3.1.10 **WHEN** teams return to OSC **THEN:**
 - 3.1.10.1 Ensure team notified the OSC Team Check Point
 - 3.1.10.2 Obtain debriefing from HPGM including latest survey results
 - 3.1.10.3 Log personnel status on HP Personnel Status Board.
- 3.1.11 Report radiological **AND** personnel exposure status to HPTL.
- 3.1.12 Evaluate survey results **AND** ARM reading trends.
- 3.1.13 Direct establishment of contamination control points **AND** radiation postings.
- 3.1.14 Periodically review OSC personnel exposure status.

- 3.1.14.1 **IF** Administrative limit may be exceeded,
THEN request approval for emergency dose extension authorization through HPTL.
- 3.1.14.2 **IF** NRC limits may be exceeded
THEN request emergency exposure authorization through HPTL.
- 3.1.15 Evaluate emergency facility habitability using Attachment 2, "Habitability Guidelines - Essential Facilities".
 - 3.1.15.1 Establish frequency for habitability surveys as necessary.
- 3.1.16 Keep HPTL apprised of survey results.
- 3.1.17 Coordinate accident mitigation actions with OSC Director.
- 3.1.18 **IF** contaminated injured must be sent to hospital,
THEN assign an HP Technician to escort injured in ambulance
AND an HP Technician to provide contamination control at hospital.
- 3.1.19 Ensure OSC personnel are periodically briefed on plant radiological conditions.
- 3.1.20 **IF** accident conditions appear long term,
THEN request HPTL provide relief personnel.
- 3.1.21 **IF** additional personnel are required,
THEN request from HPTL.
- 3.1.22 **IF** OSC becomes uninhabitable,
THEN move Health Physics group to Backup OSC per ERP-230.
- 3.1.23 **IF** required to leave OSC temporarily,
THEN delegate duties to the ARM Status Keeper.
- 3.1.24 **IF** Vehicle and Evacuee Control Group is requested by the HPTL,
THEN ensure a HPGM is assigned as a group leader for the Vehicle and Evacuee Control Group
AND actions required per ERP-640 are initiated.

- 3.2 Group members staffing the OSC Team Check Point shall:
 - 3.2.1 Check with each individual and/or team leaving the OSC to verify:
 - 3.2.1.1 Team number assigned
 - 3.2.1.2 Job briefing completed
 - 3.2.1.3 Radiological briefing completed AND most recent radiological conditions considered
 - 3.2.2 Verify, for each individual, exposure balance and respirator qualifications.
 - 3.2.3 IF PIMS is unavailable, THEN obtain most recent respiratory protection and exposure printout for each person.
 - 3.2.3.1 Ensure repair team members assigned to job tasks requiring respiratory protection are qualified for specified equipment.
 - 3.2.3.2 Maintain entries on "Personnel Exposure Record Log" for each person.
 - 3.2.4 Advise HPGL the time each team exits OSC AND log exit on attachment 4, "OSC Team Tracking Log".
 - 3.2.5 Ensure OSC Personnel exposure records are updated.
 - 3.2.6 IF OSC personnel approach exposure limits, THEN notify HPGL.
- 3.3 ARM Status Keeper shall:
 - 3.3.1 Obtain ARM readings AND log if necessary.
 - 3.3.1.1 IF hardcopy data is unavailable, THEN record on ERP-620, Appendix 2, "ARM Status Log".
 - 3.3.2 Inform HPGL of significant changes OR trends noted.
 - 3.3.3 Update Reactor Building AND Turbine Building floor plan maps as necessary.

- 3.4 Health Physics Group Members providing survey
AND HP coverage shall:
 - 3.4.1 Provide pre-entry briefings to other team members as required using ERP-620, Appendix 3, "Health Physics Briefing Guide".
 - 3.4.2 Log out at OSC Team Check Point.
 - 3.4.3 Make entry
AND perform continuous dose rate surveys.
 - 3.4.3.1 IF radiation measurements exceeds limits set by HPGL
OR range of instrument,
THEN return to low radiation area
AND notify HPGL.
 - 3.4.4 WHEN entry task is completed,
THEN:
 - 3.4.4.1 Provide exposure data to HP at OSC Team Check Point.
 - 3.4.4.2 Provide debriefing to HPGL.
 - 3.4.4.3 Record survey results
AND abnormal plant conditions on survey forms.
 - 3.4.5 Submit survey forms to HPGL.
- 3.5 Health Physics Group Members conducting habitability surveys shall:
 - 3.5.1 Conduct habitability surveys in facilities with changing conditions as indicated by instrument alarms.
 - 3.5.2 Upon notification of alarms:
 - 3.5.2.1 Proceed to the affected facility.
 - 3.5.2.2 Take action to mitigate the effects of any condition impacting on the immediate health and safety of personnel occupying the effected facility.
 - 3.5.3 Conduct surveys at frequency specified by Health Physics Group Leader.
 - 3.5.4 Report results to each facilities lead person
AND the Health Physics Group Leader.
 - 3.5.5 Record results on plant survey forms
AND Habitability Status Log.

4.0 FINAL CONDITIONS

4.1 HPTL directs HPGL to deactivate Health Physics group.

4.1.1 Implement OSC deactivation per ERP-230.

4.2 Health Physics Group Members implement OSC deactivation actions as directed by Health Physics Group Leader.

5.0 ATTACHMENTS AND APPENDICES

5.1 Attachment 1 - "Habitability Check-Off List"

5.2 Attachment 2 - "Habitability Guidelines Essential Facilities"

5.3 Attachment 3 - "Health Physics Considerations"

5.4 Attachment 4 - "OSC Team Tracking Log"

5.5 Appendix 1 - "Habitability Status Log Sheet"

5.6 Appendix 2 - "ARM Status Log"

5.7 Appendix 3 - "Health Physics Briefing Guide"

6.0 SUPPORTING INFORMATION

6.1 PURPOSE

Establish actions for HPGL and HPGMs required during an emergency response.

6.2 CRITERIA FOR USE

HPGM(s) will be activated when an event has been classified as an Alert or higher, or at the discretion of the Emergency Director (ED).

6.3 SPECIAL EQUIPMENT

6.3.1 None

6.4 REFERENCES

6.4.1 Code of Federal Regulations, Title 10, Energy, Part 20, Standards for Protection Against Radiation

6.4.2 ERP-230, "Activation of Operations Support Center (OSC)"

6.4.3 ERP-600, "Health Physics Team Leader (HPTL)"

6.4.4 ERP-640, "Vehicle and Evacuee Control Group"

- 6.4.5 ERP-670, "Emergency Radiation Exposure Guidelines and Controls"
- 6.4.6 HP-C-105, "Respiratory Protection Program"
- 6.4.7 HP-C-310, "Access Control Program"
- 6.4.8 NUREG 0654, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants"
- 6.4.9 NUREG 0696, "Functional Criteria for Emergency Response Facilities"
- 6.4.10 Nuclear Emergency Plan

6.5 COMMITMENT ANNOTATION

- 6.5.1 CM-1, Letter from NRC, 9/12/83 (T03154)
(Ref. Section 3.0 Note)

ATTACHMENT 1

HEALTH PHYSICS HABITABILITY CHECK-OFF LIST

(Page 1 of 1)

HP Technician _____ Date _____

1. At each facility:

- A. Perform initial radiation and contamination surveys as necessary.
- B. Initiate operation of habitability monitoring equipment to include setting of alarm set point valves.

NOTE:

INITIATING OPERATION REQUIRES PHYSICAL INSPECTIONS, CALIBRATION VERIFICATION, AND RESPONSE CHECKS AS APPROPRIATE. EQUIVALENT INSTRUMENTATION MAY BE SUBSTITUTED.

- C. Set EC4-X alarms at 50 mR/hr and 500 mR/hr unless otherwise directed by Health Physics Group Leader.

NOTE:

AN INCREASE IN DETECTED ACTIVITY ON RM-14'S CAN RESULT FROM INCREASED AIRBORNE CONTAMINATION LEVELS, INCREASED RADIATION LEVELS OR BOTH. IF AN INCREASE IS DETECTED, AIR SAMPLING SHOULD BE PERFORMED TO DETERMINE THE CAUSE.

2. Facilities and equipment Time/Facility Leader

- A. Control Room _____
 - 1. RM-14
- B. PEARL _____
 - 1. RM-14 - Counting Room
 - 2. EC4-X - or equivalent
- C. OSC _____
 - 1. RM-14
 - 2. EC4-X - or equivalent
- D. Guard House _____
 - 1. RM-14
 - 2. EC4-X - or equivalent
- E. Secondary Alarm Station (SAS) _____
 - 1. RM-14
 - 2. EC4-X - or equivalent

ATTACHMENT 2

HABITABILITY GUIDELINES ESSENTIAL FACILITIES

Values are approximate

RADIATION	ALERT	ACTION
Gamma Radiation (Whole Body)	50 mR/hour	500 mR/hour
Noble Gas (X3-133)	6 DACs 6N4 $\mu\text{Ci/cc}$	50 DACs 5N3 $\mu\text{Ci/cc}$
Particulate B-G (Unidentified count)	6 DACs 1.8N8 $\mu\text{Ci/cc}$	50 DACs 1.5N7 $\mu\text{Ci/cc}$
Iodine (I-131)	6 DACs 1.2N7 $\mu\text{Ci/cc}$	50 DACs 1N6 $\mu\text{Ci/cc}$

ATTACHMENT 3
HEALTH PHYSICS CONSIDERATIONS
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NOTE:

IN ADDITION TO ERP-620, THE FOLLOWING LIST IS INTENDED ONLY TO GUIDE THE PLANNER IN OPTIONS TO CONSIDER, AND DOES NOT ESTABLISH REQUIREMENTS.

I. Access Control

1. Are transit doses considered, including possible plume exposure?
2. Are barriers and postings in place?
3. Are emergency exit points available?

II. Surveillance

1. Has ARM data been reviewed?
2. Is alpha surveillance necessary based on fuel damage?
4. Are there non-radiological hazards?

III. Exposure Control

1. Are exposure limits being established for each job?
2. Has shallow dose exposure rated been evaluated against deep dose exposure rates to determine limiting dose factor (beta/gamma ratio)?
3. Is there exposure due to high energy beta radiation?

IV. Equipment

1. Instrumentation

- a. Type of survey instrumentation
- b. High energy beta radiation effects on instrument
- c. Noble gas contamination of instrument
- d. Alpha contamination

2. Air Sampling

- a. Appropriate sample media (charcoal or silver zeolite)
- b. High activity buildup on sample media
- c. Evaluation for pure beta/alpha activity

PROCEDURE INDEX REPORT:

FAC	DOC TYPE	PROC TYPE	PROCEDURE NUMBER	CURR REV NBR	TITLE	EFFECTIVE DATE	RESP GROUP	SYSTEM NBR
PB	PROC	ERP	ERP-C-1000	0005	EMERGENCY OPERATIONS FACILITY (EOF) ACTIVATION/DEACTIVATION	04/21/99	PWE	
PB	PROC	ERP	ERP-C-1000-1	0002	EOF ACTIVATION CHECKLIST	04/21/99	PWE	
PB	PROC	ERP	ERP-C-1000-2	0003	EOF DEACTIVATION CHECKLIST	04/21/99	PWE	
PB	PROC	ERP	ERP-C-1000-3	0000	EOF BUSINESS HOURS FIRST RESPONDER CHECKLIST	04/21/99	PWE	
PB	PROC	ERP	ERP-C-1000-4	0000	EOF AFTER HOURS FIRST RESPONDER CHECKLIST	04/21/99	PWE	
PB	PROC	ERP	ERP-C-1100	0003	EOF STAFF AUGMENTATION- CANCELLED - REPLACED BY ERP-C-1250	09/14/94	PWE	
PB	PROC	ERP	ERP-C-1200	0009	EMERGENCY RESPONSE MANAGER	04/03/00	PWE	
PB	PROC	ERP	ERP-C-1200-1	0000	EMERGENCY RESPONSE MANAGER TURNOVER/BRIEFING FORM	09/14/94	PWE	
PB	PROC	ERP	ERP-C-1200-2 EXH	0000	PROTECTIVE ACTION RECOMMENDATION WORKSHEET CANCELLED REPLACED BY ERP-C-1200	10/24/95	PWE	
PB	PROC	ERP	ERP-C-1200-3	0000	ERM PAR DELIVERY CHECKLIST	04/03/00	PWE	
PB	PROC	ERP	ERP-C-1210	0002	ASSISTANT EMERGENCY RESPONSE MANAGER (AERM) CANCELLED - REPLACED BY ERP-C-1200	10/24/95	PWE	
PB	PROC	ERP	ERP-C-1250	0003	EMERGENCY PREPAREDNESS COORDINATOR/EOF	11/02/98	PWE	
PB	PROC	ERP	ERP-C-1250-1	0000	EMERGENCY POWER INSTRUCTIONS	09/14/94	PWE	
PB	PROC	ERP	ERP-C-1250-2	0001	EMERGENCY PREPAREDNESS COORDINATOR INSTRUCTIONS FOR ASPEN BACKUP NOTIFICATION SYSTEM	04/02/98	PWE	
PB	PROC	ERP	ERP-C-1250-3	0000	EMERGENCY PREPAREDNESS COORDINATOR INSTRUCTIONS TO STOP STAFFING	09/14/94	PWE	
PB	PROC	ERP	ERP-C-1250-4	0000	EMERGENCY PREPAREDNESS COORDINATOR INSTRUCTIONS FOR SYSTEM RESET	09/14/94	PWE	
PB	PROC	ERP	ERP-C-1300	0010	EMERGENCY OPERATIONS FACILITY (EOF) DOSE ASSESSMENT TEAM LEADER	08/31/00	PWE	
PB	PROC	ERP	ERP-C-1300-1	0003	DOSE ASSESSMENT TEAM LEADER INITIAL ACTIONS	04/04/00	PWE	
PB	PROC	ERP	ERP-C-1300-2	0000	DOSE ASSESSMENT TURNOVER LIST	09/23/94	PWE	
PB	PROC	ERP	ERP-C-1300-3	0003	PROTECTIVE ACTION RECOMMENDATION WORKSHEET	11/02/98	PWE	
PB	PROC	ERP	ERP-C-1300-4	0000	OFFSITE SAMPLE ANALYSIS REQUESTS	09/23/94	PWE	
PB	PROC	ERP	ERP-C-1300-5	0001	DETERMINATION OF PROTECTIVE ACTION RECOMMENDATIONS (PARS)	11/02/98	PWE	
PB	PROC	ERP	ERP-C-1300-6	0001	DOSE ASSESSMENT GROUP INITIAL ACTIONS	04/10/98	PWE	
PB	PROC	ERP	ERP-C-1300-7	0000	OBTAINING EPDS MET/RAD DATA	03/26/97	PWE	
PB	PROC	ERP	ERP-C-1300-8	0000	USE OF MODE A/MODE B OF CDM	03/26/97	PWE	
PB	PROC	ERP	ERP-C-1300-9	0001	OBTAINING MET DATA FROM NATIONAL WEATHER SERVICE	09/12/97	PWE	
PB	PROC	ERP	ERP-C-1310	0003	EMERGENCY OPERATIONS FACILITY (EOF) DOSE ASSESSMENT GROUP - CANCELLED - REPLACED BY ERP-C-1300	03/26/97	PWE	
PB	PROC	ERP	ERP-C-1310-1	0000	DOSE ASSESSMENT GROUP LEADER INITIAL ACTIONS CANCELLED - REPLACED BY ERP-C-1300	03/26/97	PWE	
PB	PROC	ERP	ERP-C-1310-2	0000	OBTAINING MET DATA FROM NATIONAL WEATHER SERVICE CANCELLED - REPLACED BY ERP-C-1300	03/24/97	PWE	
PB	PROC	ERP	ERP-C-1310-3	0000	OBTAINING EPDS MET/RAD DATA - CANCELLED - NO REPLACED BY ERP-C-1300	03/26/97	PWE	
PB	PROC	ERP	ERP-C-1310-4	0000	USE OF MODE A/MODE B OF CDM CANCELLED - REPLACED BY ERP-C-1300	03/26/97	PWE	
PB	PROC	ERP	ERP-C-1320	0007	EMERGENCY OPERATIONS FACILITY (EOF) FIELD SURVEY GROUP LEADER	08/31/00	PWE	
PB	PROC	ERP	ERP-C-1320-1	0002	FIELD SURVEY GROUP LEADER INITIAL ACTIONS	04/10/98	PWE	
PB	PROC	ERP	ERP-C-1320-2	0001	FIELD SURVEY GROUP LEADER TURNOVER SHEET	03/26/97	PWE	
PB	PROC	ERP	ERP-C-1320-3	0002	FIELD SURVEY GROUP LEADER DATA SHEET	08/31/00	PWE	
PB	PROC	ERP	ERP-C-1400	0004	ENGINEERING SUPPORT TEAM	11/02/98	PWE	
PB	PROC	ERP	ERP-C-1400-1	0002	ENGINEERING SUPPORT TEAM CHECKLIST	11/02/98	PWE	
PB	PROC	ERP	ERP-C-1410	0002	CORE DAMAGE ASSESSMENT	09/09/98	PWE	
PB	PROC	ERP	ERP-C-1410-1	0000	RADIOLOGICAL DATA	09/14/94	PWE	
PB	PROC	ERP	ERP-C-1410-2	0001	HYDROGEN CONCENTRATION DATA	09/09/98	PWE	
PB	PROC	ERP	ERP-C-1410-3	0001	CONTAINMENT RADIATION MONITOR DATA	09/09/98	PWE	
PB	PROC	ERP	ERP-C-1410-4	0000	METAL WATER REACTION - CANCELLED NO REPLACEMENT	09/09/98	PWE	

PROCEDURE INDEX REPORT:

FAC	DOC TYPE	PROC TYPE	PROCEDURE NUMBER	CURR REV NBR	TITLE	EFFECTIVE DATE	RESP GROUP	SYSTEM NBR
PB	PROC	ERP	ERP-C-1410-5	0001	PERCENT OF FUEL INVENTORY AIRBORNE IN THE CONTAINMENT VS. APPROXIMATE SOURCE AND DAMAGE ESTIMATE	09/09/98	PWE	
PB	PROC	ERP	ERP-C-1410-6	0001	PROCEDURES FOR ESTIMATING FUEL DAMAGE BASED ON MEASURED I-131 AND XE-133 CONCENTRATIONS	09/09/98	PWE	
PB	PROC	ERP	ERP-C-1500	0006	LOGISTICS SUPPORT TEAM	04/14/00	PWE	
PB	PROC	ERP	ERP-C-1500-1	0001	MESSAGE AND INFORMATION INSTRUCTIONS	10/24/95	PWE	
PB	PROC	ERP	ERP-C-1500-2	0001	HELICOPTER LANDING INFORMATION	10/24/95	PWE	
PB	PROC	ERP	ERP-C-1900	0004	RECOVERY PHASE IMPLEMENTATION	11/02/98	PWE	
PB	PROC	ERP	ERP-C-1900-1	0000	RECOVERY PHASE IMPLEMENTATION FLOW CHART	06/28/93	PWE	
PB	PROC	ERP	ERP-C-1900-2	0002	PEACH BOTTOM ATOMIC POWER STATION RECOVERY ACCEPTANCE CHECKLIST	04/02/98	PWE	
PB	PROC	ERP	ERP-C-1900-3	0002	LIMERICK GENERATING STATION RECOVERY ACCEPTANCE CHECKLIST	04/02/98	PWE	
PB	PROC	ERP	ERP-C-1900-4	0002	RECOVERY PLAN OUTLINE	04/02/98	PWE	
PB	PROC	ERP	ERP-C-1900-5	0002	ASSESSMENT CONSIDERATIONS	12/28/99	PWE	
PB	PROC	ERP	ERP-101	0022	CLASSIFICATION OF EMERGENCIES	08/15/00	PWE	
PB	PROC	ERP	ERP-101 BASES	0000	PBAPS EAL TECHNICAL BASIS MANUAL TABLE OF CONTENTS	09/22/00	PWE	
PB	PROC	ERP	ERP-110	0012	EMERGENCY NOTIFICATIONS	08/06/98	PWE	
PB	PROC	ERP	ERP-110 APP 1	0055	EMERGENCY NOTIFICATION TELEPHONE LIST	08/07/00	PWE	
PB	PROC	ERP	ERP-110 APP 2	0024	EMERGENCY CLASSIFICATION NOTIFICATION TELEPHONE LIST FOR A SITE EMERGENCY OR GENERAL EMERGENCY CANCELLED - REPLACED BY ERP-110 APPENDIX 1	07/21/93	PWE	
PB	PROC	ERP	ERP-120	0002	PARTIAL PLANT EVACUATION CANCELLED - REPLACED BY ERP-130 & GP-15	08/10/92	PWE	
PB	PROC	ERP	ERP-130	0014	SITE EVACUATION	02/16/00	PWE	
PB	PROC	ERP	ERP-140	0019	EMERGENCY RESPONSE ORGANIZATION (ERO) CALL OUT	03/04/99	PWE	
PB	PROC	ERP	ERP-140 APP 1	0019	AUTOMATED ERO ACTIVATION	08/06/98	PWE	
PB	PROC	ERP	ERP-140 APP 2	0022	ASPEN EMERGENCY MESSAGE CANCELLED - REPLACED BY ERP-110 APP 1	08/06/98	PWE	
PB	PROC	ERP	ERP-140 APP 3	0022	DOSE ASSESSMENT TEAM CANCELLED - REPLACED BY PIMS PRINTOUTS ISSUED MONTHLY PER RT/ERP-2	08/20/92	PWE	
PB	PROC	ERP	ERP-140 APP 4	0015	CHEMISTRY SAMPLING & ANALYSIS TEAM CANCELLED - REPLACED BY PIMS PRINTOUTS ISSUED MONTHLY PER RT/ERP-2	08/20/92	PWE	
PB	PROC	ERP	ERP-140 APP 5	0014	DAMAGE REPAIR TEAM CANCELLED - REPLACED BY PIMS PRINTOUTS ISSUED MONTHLY PER RT/ERP-2	08/20/92	PWE	
PB	PROC	ERP	ERP-140 APP 6	0013	SECURITY TEAM CANCELLED - REPLACED BY PIMS PRINTOUTS ISSUED MONTHLY PER RT/ERP-2	08/20/92	PWE	
PB	PROC	ERP	ERP-140 APP 7	0017	PERSONNEL SAFETY TEAM CANCELLED - REPLACED BY PIMS PRINTOUTS ISSUED MONTHLY PER RT/ERP-2	08/20/92	PWE	
PB	PROC	ERP	ERP-140 APP 8	0009	COMPANY CONSULTANTS AND CONTRACTORS CANCELLED - INCLUDED IN EMERGENCY TELEPHONE DIRECTORY	08/20/92	PWE	
PB	PROC	ERP	ERP-140 APP 9	0011	NEARBY PUBLIC AND INDUSTRIAL USERS OF DOWNSTREAM WATER CANCELLED - INCLUDED IN EMERGENCY TELEPHONE DIRECTORY	08/20/92	PWE	
PB	PROC	ERP	ERP-200	0016	EMERGENCY DIRECTOR (ED)	07/10/00	PWE	
PB	PROC	ERP	ERP-200 APP 1	0003	EMERGENCY DIRECTOR CHECKLIST (MCR)	07/10/00	PWE	
PB	PROC	ERP	ERP-200 APP 2	0004	EMERGENCY DIRECTOR CHECKLIST (TSC)	07/10/00	PWE	
PB	PROC	ERP	ERP-200 APP 3	0004	EVENT NOTIFICATION FORM	07/10/00	PWE	
PB	PROC	ERP	ERP-200 APP 4	0004	STATION PUBLIC ADDRESS ANNOUNCEMENTS	07/10/00	PWE	
PB	PROC	ERP	ERP-200 APP 5	0003	PAR DEVELOPMENT AND ISSUANCE	07/10/00	PWE	
PB	PROC	ERP	ERP-200 APP 6	0001	DOSE ASSESSMENT DATA SHEET	07/10/00	PWE	
PB	PROC	ERP	ERP-200 APP 7	0000	TURNOVER/BREIFING FORM	07/10/00	PWE	
PB	PROC	ERP	ERP-205	0008	EMERGENCY PREPAREDNESS COORDINATOR/TSC	06/20/00	PWE	
PB	PROC	ERP	ERP-206	0007	SUPPORT SERVICES GROUP	03/03/00	PWE	
PB	PROC	ERP	ERP-210	0000	TRIP TABLE COMMUNICATOR (TSC)	09/12/97	PWE	

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PB	PROC	ERP	ERP-220	0006	OPERATIONS GROUP	10/05/95	PWE	
PB	PROC	ERP	ERP-230	0016	OPERATIONS SUPPORT CENTER (OSC) ACTIVATION	10/07/98	PWE	
PB	PROC	ERP	ERP-230 APP 1	0001	PERSONNEL EXPOSURE LOG OPERATIONS SUPPORT CENTER (OSC) CANCELLED - NO REPLACEMENT	11/28/95	PWE	
PB	PROC	ERP	ERP-250	0011	TECHNICAL SUPPORT CENTER (TSC) ACTIVATION CANCELLED - NO REPLACEMENT	10/14/93		
PB	PROC	ERP	ERP-300	0007	DOSE ASSESSMENT TEAM LEADER (DATL) CANCELLED - NO REPLACEMENT	09/23/94	PWE	
PB	PROC	ERP	ERP-301	0004	DOSE ASSESSMENT COORDINATOR (DAC)	08/29/00	PWE	
PB	PROC	ERP	ERP-305	0004	DOSE ASSESSMENT GROUP LEADER (DAGL) CANCELLED - NO REPLACEMENT	03/12/93		
PB	PROC	ERP	ERP-306	0000	LIMERICK RESPONSE FOR SHIFT DOSE ASSESSMENT PERSONNEL (SDAP)	06/30/00	PWE	
PB	PROC	ERP	ERP-310	0007	DOSE ASSESSMENT GROUP CANCELLED - NO REPLACEMENT	09/23/94	PWE	
PB	PROC	ERP	ERP-315	0014	OPERATION OF THE DOSE ASSESSMENT COMPUTER	04/24/00	PWE	
PB	PROC	ERP	ERP-318	0001	LIQUID RELEASE DOSE CALCULATIONS AT DOWNSTREAM WATER INTAKE FACILITIES CANCELLED - REPLACED BY ERP-360	06/18/93		
PB	PROC	ERP	ERP-319	0001	LIQUID RELEASE DOSE CALCULATIONS FOR FISH INGESTION CANCELLED - REPLACED BY ERP-360	06/18/93		
PB	PROC	ERP	ERP-325	0005	SHIFT DOSE ASSESSMENT PERSONNEL	08/25/98	PWE	
PB	PROC	ERP	ERP-325 APP 1	0000	CANCELLED - REPLACED BY MESOREM PROGRAM	03/03/95	PWE	
PB	PROC	ERP	ERP-330	0009	FIELD SURVEY GROUP LEADER (FSGL) CANCELLED - NO REPLACEMENT	09/23/94	PWE	
PB	PROC	ERP	ERP-340	0006	FIELD SURVEY GROUP	03/19/97	PWE	
PB	PROC	ERP	ERP-340 APP 1	0005	FIELD SURVEY DATA SHEET	08/29/00	PWE	
PB	PROC	ERP	ERP-360	0000	RADIOACTIVE LIQUID RELEASE CANCELLED - REPLACED BY ERP-315	06/23/94		
PB	PROC	ERP	ERP-400	0006	CHEMISTRY TEAM LEADER (CTL)	01/20/00	PWE	
PB	PROC	ERP	ERP-410	0009	CHEMISTRY GROUP	04/30/98	PWE	
PB	PROC	ERP	ERP-410 APP 1	0000	CHEMISTRY SAMPLE CHECK-OFF LIST CANCELLED - REPLACED BY ERP-410	12/11/96	PWE	
PB	PROC	ERP	ERP-410 APP 2	0000	CHEMISTRY SAMPLE AND ANALYSIS LOG SHEET CANCELLED - REPLACED BY ERP-410	12/11/96	PWE	
PB	PROC	ERP	ERP-500	0010	SECURITY TEAM LEADER (STL)	04/24/00	PWE	
PB	PROC	ERP	ERP-510	0009	PERSONNEL ACCOUNTABILITY CANCELLED - NO REPLACEMENT	11/28/95	PWE	
PB	PROC	ERP	ERP-520	0005	SECURITY GROUP LEADERS	11/28/95	PWE	
PB	PROC	ERP	ERP-520 APP 1	0000	UNIT 1 PERSONNEL LOG CANCELLED - NO REPLACEMENT	11/28/95	PWE	
PB	PROC	ERP	ERP-600	0013	HEALTH PHYSICS TEAM LEADER (HPTL)	07/07/99	PWE	
PB	PROC	ERP	ERP-610	0004	FIRST AID/SEARCH AND RESCUE GROUP CANCELLED - NO REPLACEMENT	02/05/93		
PB	PROC	ERP	ERP-620	0012	HEALTH PHYSICS GROUP	10/13/00	PWE	
PB	PROC	ERP	ERP-620 APP 1	0000	HABITABILITY STATUS LOG SHEET	11/05/93	PWE	101
PB	PROC	ERP	ERP-620 APP 2	0000	ARM STATUS LOG	11/05/93	PWE	100
PB	PROC	ERP	ERP-620 APP 3	0002	HEALTH PHYSICS BRIEFING GUIDE	09/04/98	PWE	
PB	PROC	ERP	ERP-620 APP 4	0000	ACCESS BRIEFING GUIDE CANCELLED - NO REPLACEMENT	05/08/96	PWE	
PB	PROC	ERP	ERP-630	0003	DOSIMETRY, BIOASSAY, AND RESPIRATORY PROTECTION GROUP CANCELLED - NO REPLACEMENT	03/18/93		
PB	PROC	ERP	ERP-640	0006	VEHICLE AND EVACUEE CONTROL GROUP	05/28/97	PWE	
PB	PROC	ERP	ERP-640 APP 1	0000	CONTAMINATED VEHICLE SURVEY FORM CANCELLED - NO REPLACEMENT	05/28/97	PWE	
PB	PROC	ERP	ERP-640 APP 2	0000	UNCONTAMINATED VEHICLE FORM CANCELLED - NO REPLACEMENT	05/28/97	PWE	
PB	PROC	ERP	ERP-650	0006	TRANSPORT OF CONTAMINATED INJURY OFF-SITE	11/27/96	PWE	
PB	PROC	ERP	ERP-660	0007	ENTRY FOR EMERGENCY REPAIR AND OPERATIONS CANCELLED - REPLACED BY ERP-620	07/11/94		
PB	PROC	ERP	ERP-670	0004	EMERGENCY RADIATION EXPOSURE GUIDELINES AND CONTROLS	12/11/96	PWE	
PB	PROC	ERP	ERP-680	0007	CONTROL OF THYROID BLOCKING POTASSIUM IODIDE (KI) TABLETS	09/22/00	PWE	
PB	PROC	ERP	ERP-680 APP 1	0001	POTASSIUM IODIDE WORKSHEET	02/20/97	PWE	

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PB	PROC	ERP	ERP-680 APP 2	0000	POTASSIUM IODIDE CONSENT FORM	11/30/94	PWE	
PB	PROC	ERP	ERP-680 APP 3	0001	INSTRUCTION AND RECORD SHEET FOR PERSONS RECEIVING KI	02/20/97	PWE	
PB	PROC	ERP	ERP-680 APP 4	0001	KI AUTHORIZATION	02/20/97	PWE	
PB	PROC	ERP	ERP-700	0010	TECHNICAL SUPPORT TEAM	09/22/00	PWE	
PB	PROC	ERP	ERP-710	0008	TECHNICAL SUPPORT GROUP CANCELLED - REPLACED BY ERP-700	11/02/98	PWE	
PB	PROC	ERP	ERP-800	0006	OPERATIONS SUPPORT CENTER DIRECTOR (OSC DIRECTOR)	10/07/98	PWE	
PB	PROC	ERP	ERP-810	0011	MAINTENANCE TEAM	07/07/99	PWE	

** END OF REPORT **