

EMERGENCY PLAN PROCEDURES INDEX

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Director -
Emerg. Prep.
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PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM UNITS 2 AND 3
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-101 CLASSIFICATION OF EMERGENCIES

PURPOSE:

To define the method of classification of an event or condition into one of four emergency classifications as described in the Emergency Plan. Additionally this procedure details the method of de-escalation from one emergency action level to another.

REFERENCES:

1. Peach Bottom Atomic Power Station Emergency Plan
2. NUREG 0654 Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.
3. EP-102, Unusual Event Immediate Actions
4. EP-103, Alert Immediate Actions
5. EP-104, Site Emergency Immediate Actions
6. EP-105, General Emergency Immediate Actions

ACTION LEVEL:

Implemented this procedure whenever Shift Supervision detects conditions which meet the Emergency Action Levels in Appendix EP 101, Classification Table.

IMPLEMENTATION OF THIS PROCEDURE DOES NOT CONSTITUTE
IMPLEMENTATION OF THE EMERGENCY PLAN.

PRECAUTIONS:

THE JUDGEMENT OF THE EMERGENCY DIRECTOR IS VITAL IN PROPER CONTROL OF AN EMERGENCY AND TAKES PRECEDENCE OVER GUIDANCE IN THE EMERGENCY PLAN PROCEDURE.

IMMEDIATE ACTIONS:

- 1.0 Shift Supervision or Emergency Director shall:
 - 1.1 Select affected categories related to station events or conditions.

IMMEDIATE ACTIONS (cont'd)

<u>Category</u>	<u>Reference Pages in Appendix EP-101</u>
Unplanned Shutdown	1
Personnel Injury	2
Primary Containment Integrity	3
Radioactive Material Release	4
Fire	5
Environmental	6
Loss of Power	7
Secondary Containment	8
Instrument Failure	9
Fuel Damage	10
Hazards to Station Operation	11
Control Room Evacuation	12
Security	See Contingency Plan

- 1.2 Beginning at the indicated page in Appendix EP 101, review the Emergency Action Levels for all categories selected.
- 1.3 If the most severe events or conditions are classified as an Unusual Event, implement EP 102, "Unusual Event Response."
- 1.4 If the most severe events or conditions are classified as an Alert, implement EP 103, "Alert Immediate Response."
- 1.5 If the most severe events or conditions are classified as a Site Emergency, implement EP 104, "Site Emergency Response."
- 1.6 If the most severe events or conditions are classified as a General Emergency, implement EP 105, "General Emergency Response."

FOLLOW-UP ACTIONS

- 1.0 If event is classified as Alert, Site Emergency, or General Emergency, Shift Supervision or Emergency Director shall:
 - 1.1 Periodically evaluate the event classification as listed on attached Appendix EP-101. Based upon results of corrective action taken to recover from the emergency situation, escalation or de-escalation of the emergency action level classification will be decided upon by the Emergency Director or Interim Emergency Director. (It is preferable, but not mandatory, to obtain concurrence from the Site Emergency Coordinator and Corporate Headquarters prior to classification reduction). The NRC and appropriate off-site authorities at the Emergency Operations Facility all be informed of the decision to move from one emergency class to the next. All agencies or personnel listed in checkoff lists of EP's 102, 103, 104, and 105 shall be informed as a minimum.
 - 1.2 Provide written summary within eight hours to the NRC concerning basis and circumstances surrounding reduction of emergency action level or closeout of the emergency.
- 2.0 If event is classified as an Unusual Event, Shift Supervision or Emergency Director shall periodically evaluate the event classification as listed on attached Appendix EP-101 and escalate or de-escalate the emergency action level if necessary. All appropriate agencies or personnel shall be notified using the appropriate check-off lists of EP-102, 103, 104, 105.
- 3.0 When the emergency has been mitigated and the power plant and auxiliaries have been placed in a safe shutdown condition, only then will a decision be made as to whether a recovery phase is justified. To enter the recovery phase after the emergency or accident situation is considered no longer in effect, the concurrence of the Site Emergency Coordinator, Emergency Director, the Emergency Control Officer at Corporate Headquarters, and Federal and State Government Liaison is required. The recovery phase is a departure from an emergency situation. The Site Emergency Coordinator and Emergency Director evaluates plant operating conditions as well as the in-plant and out-of-plant radiological conditions in this decision. Notifications to the various individuals and agencies that the recovery phase has been implemented is the responsibility of the Site Emergency Coordinator.

UNPLANNED SHUTDOWN

UNUSUAL EVENT	ALERT
<p><u>UNPLANNED SHUTDOWN</u></p> <ol style="list-style-type: none"> 1) controlled shutdown due to failure to meet L.C.O. 2) any scram other than planned 	<p><u>SCRAM WITH TRIPLE LO LEVEL</u></p> <ol style="list-style-type: none"> 1) scram alarm <u>and</u> 2) double low level alarm (-48") <u>and</u> 3) triple low level alarm (-130") <u>and</u> 4) increase in containment pressure to greater than 1 psig but less than 2 psig on PR-2/3508 <p><u>SCRAM WITH SMALL LEAK</u></p> <ol style="list-style-type: none"> 1) scram alarm <u>and</u> 2) double low level alarm (-48") <u>and</u> 3) triple low level alarm (-130") <u>and</u> 4) containment high pressure alarm (2 psig) <u>and</u> 5) containment pressure 2 psig or greater on PR 2/3508
SITE EMERGENCY	GENERAL EMERGENCY
<p><u>SCRAM WITH LOCA</u></p> <ol style="list-style-type: none"> 1) scram alarm <u>and</u> 2) double low level alarm (-48") <u>and</u> 3) triple low level alarm (-130") <u>and</u> 4) containment high pressure alarm (2 psig) <u>and</u> 5a) containment pressure 10 psig or greater on PR 2/3508 <u>or</u> 5b) containment dose rate greater than 10^5 R/hr on RI-8/9103A/C and RI-8/9103B/D 	<p><u>SCRAM WITH LOCA & NO ECCS</u></p> <ol style="list-style-type: none"> 1) scram alarm <u>and</u> 2) double low level alarm (-48") <u>and</u> 3) triple low level alarm (-130") <u>and</u> 4) active fuel range level indication shows less than -226" on LI-2/3-2-3-91A, B <u>and</u> 5) failure to reset triple low level alarm after 3 minutes <u>and</u> 6) containment high pressure alarm (2psig) <u>and</u> 7) containment pressure greater than 20 psig on PR-2/3508 <u>or</u> 8) containment dose rate greater than 10^6 R/hr on RI-8/9103A/C and RI-8/9103 B/D

PERSONNEL INJURY

UNUSUAL EVENT	ALERT
<p><u>INJURY WITH EXCESS RADIATION EXPOSURE OR CONTAMINATION</u></p> <ol style="list-style-type: none"> 1) Contaminated injury warranting off-site medical treatment <u>or</u> 2) an acute whole body exposure greater than 3 R 	<p>N/A</p>
SITE EMERGENCY	GENERAL EMERGENCY
<p>N/A</p>	<p>N/A</p>

PRIMARY CONTAINMENT

UNUSUAL EVENT	ALERT
<p><u>NON-ISOLABLE LEAKAGE</u> :</p> <ol style="list-style-type: none"> 1) Primary containment leakrate is greater than 0.5 percent of volume per 24 hrs. at 49.1 psig <u>or</u> 2) N₂ makeup system is not capable of maintaining pressure (not due to lack of N₂). <p><u>FAILURE TO ISOLATE PENETRATION WHEN ISOLATED BY A TRANSIENT</u></p> <ol style="list-style-type: none"> 1) incorrect valve position during Group I, II, or III isolation alarms 	<p><u>LOSS OF PRIMARY CONTAINMENT INTEGRITY</u></p> <ol style="list-style-type: none"> 1) Reactor Building vent rad effluent high rad alarm and inability to maintain pressure greater than 0.25 psig on narrow range PR-2/3508 <u>or</u> 2) Torus Room flood alarm with level decrease in torus
SITE EMERGENCY	GENERAL EMERGENCY
<p><u>LOSS OF PRIMARY CONTAINMENT INTEGRITY WITH LOCA</u></p> <ol style="list-style-type: none"> 1) erratic containment pressure fluctuations above alarm setpoints of 1.5 psig, <u>and</u> 2) Group II and III isolation alarms, <u>and</u> 3) Containment dose rate greater than 10⁵ R/hr on RI-8/9103A/C and RI-8/9103B/D <u>and</u> 4) Reactor Building area high temperature alarm, <u>or</u> Area Radiation Monitors on PR 2/3-18-55 abnormally high, <u>and</u> Reactor Bldg. vent rad effluent high alarm, <u>or</u> Main Stack Rad effluent on PR 0-17-051 increasing due to SGTS operation. 	<p>N/A</p> <p><u>SITE EMERGENCY continued</u></p> <p><u>POTENTIAL LOSS OF PRIMARY CONTAINMENT HIGH RADIATION</u></p> <ol style="list-style-type: none"> 1) containment high pressure alarm, (2.0 psig), <u>and</u> 2) scram, <u>and</u> 3) containment dose rate greater than 10⁵ R/hr on RI-8/9103A/C and RI-8/9103B/D, <u>and</u> 4) Reactor Bldg Area Rad Monitors Alarming, <u>and</u> 5) Vent Stack Rad Effluent monitor high alarm

RADIOACTIVE RELEASE

UNUSUAL EVENT	ALERT
<p><u>INSTANTANEOUS RELEASE EXCEEDING TECH SPECS</u></p> <ol style="list-style-type: none"> Liquid effluent release exceeding Tech. Spec. 3.8.B.1 Gaseous effluent release exceeding Tech. Spec 3.8.C.1 which may be detected by the following: <ol style="list-style-type: none"> If all releases are from one release point <ol style="list-style-type: none"> A spike on the main stack greater than 1.8×10^4 cps on RR-0-17-051 or A spike on the reactor bldg. vent greater than 3×10^5 cpm on RR-2/3979 or If the release is from more than one release point <ol style="list-style-type: none"> A spike on the main stack greater than 6×10^3 cps on RR-0-17-051 or A spike on the reactor bldg. vent greater than 1×10^5 cpm on RR-2/3979 or 	<p><u>ACTUAL OR POTENTIAL RELEASE 0.01 REM WHOLE BODY OR 0.05 REM THYROID</u></p> <ol style="list-style-type: none"> Uncontrollable release for more than 20 minutes from the: <ol style="list-style-type: none"> main stack greater than 6.5×10^4 cps on RR 0-17-051 or Reactor Bldg vent greater than 2.5×10^5 cpm on RR-2/3979 or Continued particulate or iodine release such that analysis of particulate filter or charcoal cartridge results in the following estimated release rates: <ol style="list-style-type: none"> main stack greater than 5×10^2 uCi/sec or Reactor Bldg vent greater than 3×10^3 uCi/sec or Containment dose rate greater than 10^4 R/hr on RI-8/9103 A/C and RI-8/9103 B/D
SITE EMERGENCY	GENERAL EMERGENCY
<p><u>ACTUAL OR POTENTIAL RELEASE 0.1 REM WHOLE BODY OR 0.5 REM THYROID</u></p> <ol style="list-style-type: none"> Uncontrollable release for more than 20 minutes from the: <ol style="list-style-type: none"> main stack greater than 6.5×10^5 cps on RR 0-17-051 or Reactor Bldg. vent greater than 5×10^5 cpm on RR-2/3979 or continued particulate or iodine release such that analysis of particulate filter or charcoal cartridge results in the following estimated release rates: <ol style="list-style-type: none"> main stack greater than 5×10^3 uCi/sec or Reactor Bldg vent greater than 3×10^4 uCi/sec or containment dose rate greater than 10^3 R/hr on RI-8/9103A/C and RI-8/9103B/D 	<p><u>ACTUAL OR POTENTIAL RELEASE 1.0 REM WHOLE BODY OR 5.0 REM THYROID</u></p> <ol style="list-style-type: none"> Uncontrollable release for more than 20 minutes from the: <ol style="list-style-type: none"> main stack greater than 1×10^6 cps on RR 0-17-051 or Reactor Bldg vent greater than 1×10^6 cpm on RR 2/3979 or continued particulate or iodine release such that analysis of particulate filter or charcoal cartridge results in the following estimated release rates: <ol style="list-style-type: none"> main stack greater than 5×10^4 uCi/sec or Reactor Bldg vent greater than 3×10^5 uCi/sec or containment dose rate greater than 10^5 R/hr on RI-8/9103A/C and RI-8/9103B/D

FIRE	
UNUSUAL EVENT	ALERT
<p><u>FIRE IN PROTECTED AREA LASTING 10 MIN. OR MORE AFTER INITIAL ATTEMPTS TO EXTINGUISH IT</u></p> <p>1) Alarm and verbal report from SSV</p>	<p><u>FIRE WHICH COULD MAKE AN ECCS INOP</u></p> <p>1) Fire alarm and verbal report from SSV</p>
SITE EMERGENCY	GENERAL EMERGENCY
<p><u>FIRE WHICH MAKES AN ECCS INOP</u></p> <p>1) Fire alarm and verbal report from SSV</p>	<p><u>FIRE WHICH CAUSES DAMAGE TO PLANT SYSTEMS SUFFICIENT TO LEAD TO OTHER GENERAL EMERGENCIES</u></p> <p>1) Fire alarm and verbal report from SSV, and LOCA symptoms, ECCS, or containment failure</p>

ENVIRONMENTAL

UNUSUAL EVENT	ALERT
<p><u>EARTHQUAKE</u></p> <p>1) An actual earthquake detected by seismic instrumentation systems</p> <p><u>ABNORMAL POND LEVEL</u></p> <p>1) Conowingo Pond level on LI-2/3278A, B, C: a) greater than 113 feet <u>or</u> b) less than 104 feet without prior notification by L.D.</p> <p><u>TORNADO</u></p> <p>1) A tornado is observed on site</p> <p><u>HURRICANE</u></p> <p>1) Hurricane is expected to cross the station</p>	<p><u>EARTHQUAKE</u></p> <p>1) An actual earthquake beyond the Operating Basis Earthquake (OBE)</p> <p><u>ABNORMAL POND LEVEL</u></p> <p>1) Conowingo Pond level on LI-2/3278A, B, C: a) greater than 115 feet <u>or</u> b) less than 98.5 feet without prior notification by L.D.</p> <p><u>TORNADO</u></p> <p>1) A tornado strikes the Power Block with identifiable plant damage</p> <p><u>HURRICANE</u></p> <p>1) Station is experiencing a hurricane with winds greater than 100 mph</p>
SITE EMERGENCY	GENERAL EMERGENCY
<p><u>EARTHQUAKE</u></p> <p>1) An earthquake greater than Design Earthquake as detected on seismic instruments</p> <p><u>ABNORMAL POND LEVEL</u></p> <p>1) Conowingo Pond level on LI-2/3278A, B, C exceeding the following limits: a) greater than 116 feet <u>or</u> b) less than 87 feet</p>	

LOSS OF POWER

UNUSUAL EVENT	ALERT
<p><u>LOSS OF OFFSITE OR ONSITE: POWER</u></p> <ol style="list-style-type: none"> 1) turbine generator trip with Startup Auxiliary transformer SU2 and SU3 unavailable for service for more than 60 seconds <u>or</u> 2) loss of voltage on the four 4160 volt emergency busses or 480 volt load centers supplied from the four 4160 volt emergency busses for more than 60 seconds. 	<p><u>LOSS OF OFFSITE AND ONSITE AC POWER FOR LESS THAN 15 MINUTES</u></p> <ol style="list-style-type: none"> 1) turbine generator trip with Startup Auxiliary transformer SU2 and SU3 unavailable for service <u>and</u> 2) failure of <u>all</u> diesel generators to energize their busses. <p><u>LOSS OF ALL DC POWER FOR LESS THAN 15 MIN.</u></p> <ol style="list-style-type: none"> 1) less than 105 volts on the 2/3A,B,C & D distribution panels as indicated on Panels 2/3AD03, 2/3CD03, 2/3BD03, 2/3DD03 <u>and</u> 2) less than 21 volts on the 24 volt distribution panels as indicated on Panels 2/3AD28, 2/3CD28, 2/3BD28, 2/3DD28 <u>and</u> 3) loss of <u>all</u> alarms
SITE EMERGENCY	GENERAL EMERGENCY
<p><u>LOSS OF OFFSITE AND ONSITE AC POWER FOR LONGER THAN 15 MINUTES</u></p> <ol style="list-style-type: none"> 1) turbine generator trip <u>with</u> SU2 and SU3 unavailable for service for longer than 15 minutes <u>and</u> 2) failure of <u>all</u> diesel generators to energize their busses for longer than 15 minutes <p><u>LOSS OF ALL 125 VDC POWER FOR LONGER THAN 15 MINUTES</u></p> <ol style="list-style-type: none"> 1) less than 105 volts on the 2/3A,B, C&D distribution panels as indicated on Panels 2/3AD03, 2/3CD03, 2/3BD03, 2/3DD03 for longer than 15 minutes <u>and</u> 2) less than 21 volts on the 24 volt distribution panels as indicated on Panels 2/3AD28, 2/3CD28, 2/3BD28, 2/3DD28 for longer than 15 min. <u>and</u> 3) loss of all alarms for longer than 15 min. 	

SECONDARY CONTAINMENT

UNUSUAL EVENT	ALERT
<p><u>LOSS OF SECONDARY CONTAINMENT INTEGRITY</u></p> <p>1) loss of secondary containment integrity for greater than 12 hours</p>	<p>N/A</p>
SITE EMERGENCY	GENERAL EMERGENCY
<p>N/A</p>	<p>N/A</p>

INSTRUMENT FAILURE

UNUSUAL EVENT	ALERT
<u>SIGNIFICANT LOSS OF ASSESSMENT OR COMMUNICATION CAPABILITY IN THE MAIN CONTROL ROOM</u> 1) complete loss of all Main Control Room communication equipment	N/A
SITE EMERGENCY	GENERAL EMERGENCY
N/A	N/A

FUEL DAMAGE

UNUSUAL EVENT	ALERT
<p><u>POSSIBLE FUEL DAMAGE</u></p> <ol style="list-style-type: none"> 1) Air ejector discharge rad monitor high alarm <u>and</u> an increase of 500mR/hr within 30 minutes <u>or</u> a level of 2.5×10^3 mR/hr as indicated on RR-2/3-17-152, <u>or</u> 2) high reactor coolant activity as determined by sample analysis equal to or greater than 2 uCi/gm dose equivalent I-131 	<p><u>FUEL DAMAGE</u></p> <ol style="list-style-type: none"> 1) Air ejector discharge rad monitor indicating greater than 2.5×10^4 mR/hr on RR 2/3-17-152, <u>or</u> 2) High coolant activity of 300 uCi/gm dose equivalent I-131, <u>and</u> main steam line high-high radiation alarm with resultant scram alarm, <u>or</u> 3) spent fuel damage resulting in a refueling floor area radiation monitor alarm <u>or</u> a high radiation alarm on refuel floor exhaust rad monitor
SITE EMERGENCY	GENERAL EMERGENCY
<p><u>FUEL DAMAGE</u></p> <ol style="list-style-type: none"> 1) Following conditions occur: <ol style="list-style-type: none"> a) failure of control rods to fully insert on a <u>scram and</u> b) higher than normal readings on LPRMs adjacent to not-fully-inserted rods <u>and</u> c) at least 2 of the 4 containment rad monitors indicate levels greater than 10^5 R/hr on RI-8/9103A/C and RI-8/9103B/D. 2) Major damage to spent fuel in fuel pool or uncovering of spent fuel as confirmed by a fuel pool area radiation monitor alarm and: <ol style="list-style-type: none"> a) refuel floor exhaust radiation monitor high alarm, <u>or</u> b) refuel floor area radiation monitor alarm <u>or</u> 3) Observed major damage to spent fuel 	<p><u>FUEL DAMAGE</u></p> <ol style="list-style-type: none"> 1) When at least 2 of 4 containment rad monitors indicate levels greater than 10^6 R/hr on RI-8/9103A/C and RI-8/9103B/D <u>and</u> containment pressure exceeds 10 psig on PR 2/3508

HAZARDS	
UNUSUAL EVENT	ALERT
<p><u>MODERATE HAZARDS</u></p> <ol style="list-style-type: none"> 1) Aircraft crash on or near site as determined by Shift Supervision <u>or</u> 2) Significant explosion on or near site as determined by Shift Supervision <u>or</u> 3) Toxic gas release on or near site as determined by Shift Supervision 	<p><u>SEVERE HAZARDS</u></p> <ol style="list-style-type: none"> 1) Aircraft crash on the facility or missile impacts into the Reactor Bldg. Diesel Generator Bldg. or HPSW pump structure as determined by Shift Supervision <u>or</u> 2) Explosion damage to facility affecting plant safety as determined by Shift Supervision <u>or</u> 3) Chlorine gas detected in the Control Room
SITE EMERGENCY	GENERAL EMERGENCY

CONTROL ROOM EVACUATION

UNUSUAL EVENT	ALERT
<p>N/A</p>	<p><u>REMOTE CONTROL ESTABLISHED</u></p> <p>1) Evacuation of Main Control Room anticipated or required and control established at remote shutdown panels as determined by Shift Supervision</p>
SITE EMERGENCY	GENERAL EMERGENCY
<p><u>REMOTE CONTROL NOT ESTABLISHED</u></p> <p>1) Evacuation of Main Control Room and control of shutdown systems <u>not</u> established at remote shutdown panels in 15 minutes as determined by Shift Supervision</p>	<p>N/A</p>

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EP-207A
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RMS:mdw

PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM UNITS 2 AND 3

Almut A
7-31-85

EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-207A FIRST AID/SEARCH AND RESCUE GROUP

PURPOSE:

- 1.0 The purpose of this procedure is to define the requirements and provide guidance to conduct first aid/search and rescue operations.

RESPONSIBILITIES:

- 1.0 The Emergency Director is responsible for:
 - 1.1 Activation of entire Personnel Safety Team or First Aid/Search and Rescue Group
 - 1.2 Approval of obtaining offsite medical assistance.
- 2.0 Personnel Safety Team Leader shall:
 - 2.1 Inform the Emergency Director of Group activities and status
 - 2.2 Request Emergency Director approval of and obtain offsite medical assistance if requested by Group Leader.
- 3.0 First Aid/Search and Rescue Group Leader shall:
 - 3.1 Director Group operations.
 - 3.2 Maintain communications with Personnel Safety Team Leader.
- 4.0 First Aid/Search and Rescue Group Monitors shall:
 - 4.1 Perform operations assigned by Group Leader.
 - 4.2 Maintain communications with Group Leader.

ACTION LEVEL

- 1.0 This procedure shall be implemented whenever personnel are known to be missing, injured, or as required by the Emergency Director.

PRECAUTIONS

- 1.0 Personnel participation in First Aid/Search and Rescue operations shall be voluntary.
- 2.0 Adhere to proper radiological controls as much as practicable.
 - 2.1 This activity is exempt from Radiological work permit (RWP) requirements.
- 3.0 Personnel exposure should be limited to the administrative guide levels in Appendix EP-207A-1, Emergency Exposure Limits.
 - 3.1 The Emergency Director may approve exposures in excess of quarterly Peach Bottom guidelines.
 - 3.2 Each group member shall control exposure in accordance with ALARA concepts.

NOTE: IF WAITING FOR EMERGENCY DIRECTOR APPROVAL COULD
ENDANGER PERSONNEL, THE FIRST AID/SEARCH AND RESCUE
GROUP LEADER MAY DECIDE TO REMOVE THE INJURED PERSON(S).

PROCEDURE:

- 1.0 Immediate Actions
 - 1.1 Personnel Safety Team Leader shall:
 - 1.1.1 Contact the First Aid/Search and rescue Group Leader and direct him to form First Aid/Search and Rescue Groups.
 - 1.1.1.1 Each Group shall contain a minimum of three members qualified as follow:
 - 1.1.1.1.a Two members qualified in First Aid and CPR
 - 1.1.1.1.b One member a qualified Health Physics Technician.
 - 1.1.1.2 All group members should be familiar with the plant.
 - 1.1.2 Inform the Emergency Director that First Aid/Search and Rescue groups have been formed and will enter the plant.
 - 1.1.3 Request emergency exposure limits from Emergency Director if necessary.
 - 1.1.3.1 These limits may be adjusted accordingly by the Emergency Director

1.1.4 Request Emergency Director approval of and obtain offsite medical assistance if requested by the First Aid/Search and Rescue Group Leader using Appendix EP-207A-4.

1.1.4.1 Use EP-209, Appendix N for additional telephone numbers if needed.

1.1.4.2 Provide the offsite agency with the following information:

1.1.4.2.a Number of injured persons

1.1.4.2.b Estimated Time of Arrival (Hospitals Only)

1.1.4.2.c Type and extent of Injury

1.1.4.2.d If injury is contaminated

1.1.4.3 Notify Security that offsite medical personnel entrance to Restricted Area is expedited.

1.1.5 Recall First Aid/Search and Rescue Group when no longer required.

1.2 First Aid Search and Rescue Group Leader shall:

1.2.1 Direct group members to obtain necessary radiation and contamination protection equipment. This equipment may include but is not limited to:

1.2.1.1 Respiratory Protection Equipment

1.2.1.2 Rad survey equipment

1.2.1.3 Anti-Contamination clothing

1.2.1.4 Personal Dosimetry

This equipment can be obtained in the plant, or from emergency kits located at the PUB, North Substation, Delta Service Building, EOF, or Aux. OSC.

1.2.2 Obtain the following information prior to dispatching group to perform First Aid/Search and Rescue operations:

1.2.2.1 Number of missing/injured persons

1.2.2.2 Name of individuals

1.2.2.3 Individual's last known location

1.2.2.4 Job individual was performing when last seen

- 1.2.2.5 Any significant plant conditions or special instructions
- 1.2.3 Ensure group is equipped with first aid kit, stretcher, and blanket or can get them enroute.
- 1.2.4 Attempt to contact missing individuals using the plant paging system.
- 1.2.5 Coordinate First Aid/Search and Rescue groups to minimize duplication of effort, amount of time, and radiation exposure.
 - 1.2.5.1 Direct groups to last known location of individuals using most expeditious route if practicable. Expand search to adjacent areas if required.
 - 1.2.5.2 Determine extent of any injury and direct administration of first aid.
 - 1.2.5.2.A Ensure that any objects causing contaminated wounds are recovered or smeared for isotopic identification if possible.
- 1.2.6 Inform Personnel Safety Team Leader of extent of injury, actions taken, actions to be taken, and any recommendations to call offsite assistance.
 - 1.2.6.1 Complete Appendix EP-207A-3 if possible and attach it to the injured person prior to the individual leaving the site.
- 1.2.7 Direct the First Aid/Search and Rescue Group to transport the injured person to a Site First Aid Facility, if practicable.
 - 1.2.7.1 Site First Aid Facilities are located:
 - 1.2.7.1.A Radwaste Building, Elevation 135'
 - 1.2.7.1.B Site Medical Dispensary, outside the Security Fence north of the Circ. Water Pump Structure
- 1.2.8 Act as liaison between site group and offsite assistance.
- 1.2.9 Inform Personnel Safety Team Leader when group has completed its task and is reassembled and accounted for.
- 1.3 First Aid/Search and Rescue Group Members shall:
 - 1.3.1 Locate the missing persons and administer first aid as required
 - 1.3.2 Perform radiation and contamination survey of individual and area

1.3.3 Transport injured person to Site First Aid Facility if practicable

1.3.4 If contamination is suspected:

1.3.4.1 Wear necessary anti-contamination clothing if practicable

NOTE: IF THE INJURY IS SEVERE, IMMEDIATE MEDICAL TREATMENT IS OF THE HIGHEST PRIORITY AND RADIOLOGICAL CONTROLS ARE SECONDARY.

1.3.4.2 Administer appropriate first aid, being careful to limit the spread of contamination and limit personnel exposure.

1.3.4.3 Prepare the injured person for transport by covering the contaminated area with protective wrap. This may require placing the wrap on the stretcher and then covering the person after loading onto the stretcher.

1.3.4.4 Transport the individual to a convenient place to be picked up and transported offsite.

1.3.5 When transporting an injured person to an offsite medical facility, a Health Physics Technician shall accompany the person to assist the medical staff.

1.3.6 A second HP should also report to the hospital if available. This is not required if a previous transport of injured has occurred and it is known that HP Technicians are at the hospital.

1.3.7 Recover any contaminated articles of clothing that may have been removed from the person for isotopic analysis.

1.4 Site Physicians Assistant or his designee shall:

1.4.1 Provide guidance to the First Aid/Search and Rescue Group Leader as much as practicable if requested by the Personnel Safety Team Leader.

2.0 FOLLOWUP ACTIONS

2.1 First Aid/Search and Rescue Group Members shall:

2.1.1 Follow normal decontamination and disposal practices when task is completed.

- 2.1.2 Return to designated assembly area and report to the First Aid/Search and Rescue Group Leader.
- 2.2 First Aid/Search and Rescue Group Leader shall:
 - 2.2.1 Return to designated assembly area.
 - 2.2.2 Report results of any actions to the Personnel Safety Team Leader.
 - 2.2.3 Account for all Group members.
 - 2.2.4 Inform Personnel Safety Team Leader of accountability.
 - 2.2.5 Arrange for inventory and restocking of first aid kits and facilities if necessary.
- 2.3 Personnel Safety Team Leader shall:
 - 2.3.1 Verify injured arrives at medical facility
 - 2.3.2 Inform Emergency Director of results of any action taken by First Aid/Search and Rescue Group.
 - 2.3.3 Request that Emergency Director notify the Emergency Medical Director and Communications Coordinator of identity and condition of injured.

FINAL CONDITIONS

- 1.0 Injured person(s) being treated at hospital, by local physician, or has been transported for treatment.
- 2.0 Missing person(s) have been accounted for, or found.
- 3.0 Reports and briefings have been accomplished.
- 4.0 First Aid/Search and Rescue group dismissed by Personnel Safety Team Leader.

APPENDICES:

- 1.0 Appendix EP-207A-1, Emergency Exposure Guidelines
- 2.0 Appendix EP-207A-2, First Aid Related Equipment in Power Block
- 3.0 Appendix EP-207A-3, First Aid/Search and Rescue - Injury Report
- 4.0 Appendix EP-207A-4, Medical Support Group Telephone List

REFERENCES:

- 1.0 PBAPS Emergency Plan
 - 1.1 Section 5.2.1.5.7.1 First Aid/Search and Rescue Group
 - 1.2 Section 5.2.1.6 Non-Corporate Support Personnel
 - 1.3 Section 6.7.1.1.6 Search and Rescue
 - 1.4 Section 6.9.2 Decontamination and First Aid
 - 1.5 Section 6.9.4 Medical Treatment
- 2.0 NUREG 0634
- 3.0 EP-207 Personnel Safety Team
- 4.0 PECO Official Bulletin, Serial No. 437-R3

APPENDIX EP 207A-1
EMERGENCY EXPOSURE GUIDELINES

<u>Function</u>	<u>Projected Whole Body Dose</u>	<u>Thyroid Dose</u>	<u>Authorized By</u>
1. Life Saving and Reduction of Injury	75 rem*	375 rem	Emergency** Director
2. Operation of Equipment to Mitigate an Emergency	25 rem*	125 rem	Emergency** Director
3. Protection of Health and Safety of the Public	5 rem	25 rem	Emergency Director
4. Other Emergency Activities	10 CFR 20 limits	10 CFR 20 limits	Emergency Director
5. Re-Entry/Recovery Activities	Administrative Guidelines	Administrative Guidelines	N/A

*Reference: EPA-520/1-75-001 Table 2.1

**Such exposure shall be on a voluntary basis

APPENDIX EP-207A-2

FIRST-AID RELATED EQUIPMENT IN POWER BLOCK

	<u>Stretchers</u>	<u>First Aid Kits</u>	<u>Blankets</u>
Unit 2 Rx Bldg Elevator Stairwells			
116' Elev	X	X	X
135' Elev	X	X	X
165' Elev	X	X	X
195' Elev	X	X	X
234' Elev	X	X	X
Unit 3 Rx Bldg Elevator Stairwells			
116' Elev	X	X	X
135' Elev	X	X	X
165' Elev	X	X	X
195' Elev	X	X	X
234' Elev	X	X	X
Turbine Bldg Elevator			
116' Elev		X	
135' Elev		X	
150' Elev		X	
165' Elev		X	
Turbine Bldg Laundry Room 116' Elev	X	X	X
Radwaste Bldg Medical/Decon Room 135' Elev	X*	X	
Diesel Gen Bldg (Each Room)		X	
Emergency Cooling Tower	X		
2SU Switchgear Bldg	X		
3SU Switchgear Bldg	X		

* 2 Orthopedic stretchers located here.

NOTE: 1/2 mile rays (emergency flashlights) are located just outside door to Unit 2 side of main control room in cabinet.

APPENDIX EP-207A-3

FIRST AID/SEARCH AND RESCUE GROUP
INJURY REPORT FORM
(PREPARE IN DUPLICATE)

INJURED PERSON'S NAME _____

AGE _____

HARSHAW BADGE NO OR SOCIAL SECURITY NO _____

MALE _____ FEMALE _____

TYPE AND LOCATION OF INJURY

RADIOACTIVE CONTAMINATION _____ YES _____ NO _____ LEVEL

LOCATION _____

RADIATION EXPOSURE ESTIMATE _____

WHERE DID INJURY OCCUR

PREPARED BY FIRST AID GROUP LEADER _____

SIGNATURE

GROUP MEMBERS

IF PRACTICABLE, FORWARD ORIGINAL, WITH THE PERSON, TO THE
SITE FIRST AID FACILITY OR HOSPITAL AS APPROPRIATE.

APPENDIX EP-207A-4
MEDICAL SUPPORT GROUP PHONE LIST

Local Physicians

1st Choice: _____

Office

Home _____

2nd Choice: _____

Harford Memorial Hospital

(Contaminated or Otherwise)

(*chboard)

Radiation Management Corporation

(Serious Contamination/or Exposure*
multiple contaminated personnel)

Preferred

Alternative _____

(Beeper)

Ambulance

Delta-Cardiff is first responder

Fawn Grove is second responder if Delta-Cardiff is not available.

Both units are dispatched by York Country Control

York County Control

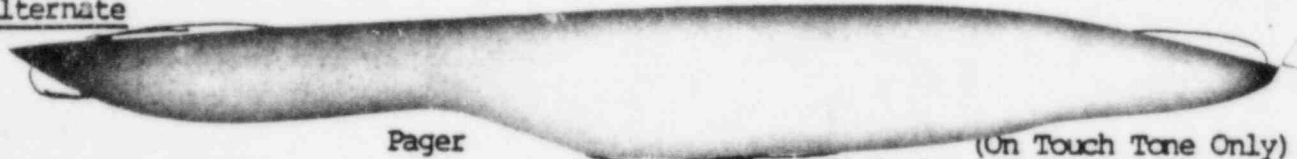
Call Control Room
Shift Clerk _____

Medical Director

Pager

(... Touch Tone Only)
At the tone, dial the number you want
him to call.

Alternate



Pager

(On Touch Tone Only)

At the tone, dial the number you want
him to call.

*Serious Contamination/Exposure is any of the following:

Whole Body Exposure greater than 25 REM; Skin exposure greater than
150 REM; Extremity exposure greater than 375 REM; Contamination
causing body contacted reading of greater than 1 MR/HR; Suspected
or actual inhalation or ingestion of measurable quantities of
radioactive material.

