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EMERGENCY PLAN PROCEDURES INDEX

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PEACH BOTTOM UNITS 2 AND 3

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PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM UNITS 2 AND 3
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-110 - PERSONNEL ASSEMBLY AND ACCOUNTABILITY

PURPOSE

To define the actions to be taken when personnel assembly and accountability is desired due to an emergency situation (prior to a site evacuation being ordered).

REFERENCES

1. Peach Bottom Atomic Power Station Emergency Plan

<u>Section</u>	<u>Title</u>
a. 5.2.1.5.4	Security Team
b. 6.7.1	Risk Areas
c. 7.8.1	Emergency Evacuation Assembly Areas

APPENDIX

EP-110-1 - Emergency Assembly Areas

ACTION LEVEL

This procedure may be implemented at the discretion of the Emergency Director when an Alert, Site or General Emergency is declared.

PRECAUTIONS

1. Upon declaration of an emergency and notification of an emergency assembly, all personnel at the PBAPS should immediately report to their designated emergency assembly areas in accordance with Appendix EP-110-1.
2. Emergency Assembly Area Coordinators for each emergency assembly area are designated on Appendix EP-110-1.
3. Personnel must make Emergency Assembly Area Coordinators aware of their arrival and departure when changing locations.

4. Emergency Assembly Area Coordinators must ensure that hazardous site locations are identified and warn personnel of these locations for the determination of the safest routes between emergency assembly areas while the emergency is in progress.
5. Only the following personnel may authorize support personnel without Peach Bottom identification cards access to the site during a plant emergency:

Site Emergency Coordinator Emergency Director Security Director
6. If a designated Emergency Assembly Area Coordinator is not present at an assembly area, the next senior plant staff member will assume the responsibility.
7. Those personnel who do not have designated emergency assembly areas within the power block do not require alternate emergency assembly area locations.

IMMEDIATE ACTIONS

1.0 Emergency Director or Interim Emergency Director shall:

- 1.1 Announce over the Public Address System that all personnel are to report to their assigned emergency assembly area by making the following announcement:

"All personnel on site report to emergency assembly areas. An(Unusual Event, Alert, Site Emergency, General Emergency) has been declared on Unit 2/3. (There is no need to evacuate the site at this time.)"

2.0 Emergency Assembly Area Coordinator shall:

- 2.1 Record names and security badge numbers of all individuals reporting to the assembly area. Rosters of personnel assigned to assembly areas should be available in each area to assist in the personnel accountability.
- 2.2 Conduct a roll call (if necessary) to verify an accurate muster list.
- 2.3 Report to the security supervisor; the names, security badge numbers, and identification numbers of personnel. (On site Assembly areas only).
- 2.4 Request that emergency response organization personnel proceed to their appropriate emergency duty station after initial assembly accountability and receiving and understanding their assignments.
- 2.5 Maintain a log of names and badge numbers of all personnel leaving and returning to assembly areas.

NOTE: IF THE EMERGENCY ASSEMBLY AREA COORDINATOR IS REQUIRED

TO LEAVE THE EMERGENCY ASSEMBLY AREA IN ORDER TO REPORT TO THE EMERGENCY DUTY STATION, ASSIGN AN INDIVIDUAL TO COMPLETE STEPS 2.1 THROUGH 2.6 FOR SUBSEQUENT ACCOUNTABILITY CHECKS.

2.6 If available, provide information on hazardous areas and best route to be traveled for minimizing radiation exposure. This information may be available from the Personnel Safety Team Leader in the Technical Support Center at Unit 1 on the AVXOSC.

2.7 If the entire group of assembled personnel are to move to a new location, perform steps 2.1 through 2.6 to ensure accountability is continuous if the entire group of assembled personnel are to move to a new location.

3.0 Security Supervisor or equivalent shall:

3.1 Conduct an accountability check of the emergency assembly areas 15-30 minutes after assembly area announcement made accountability of all personnel on site.

3.2 Inform the Personnel Safety Team Leader in the TSC of all those personnel not able to be accounted for.

4.0 Personnel Safety Team Leader shall:

4.1 Conduct Search and Rescue operations if missing personnel are suspected to be in need of help.

EMERGENCY ASSEMBLY AREAS

Group	Primary Assembly Areas and Telephone Numbers	Alternate Assembly Areas and Telephone Numbers	Assembly Area Coordinators
HP Technicians Physicists	Auxiliary Operations Support Center Ext. 4262	Units 2 & 3, Admin. Bldg. 2nd floor Ext. 4226	Plant Survey Group Leader
Chemistry Technicians On-Shift HP Technicians		(Use only if Alt. Operations Support Center is inhabitable)	Alt: Field Survey Group Leader
Fire Fighting Group	Operations Support Center Ext. 4369 (except for Shift Supervision)	Control Room Ext. 4223	Senior ranking P.O., A.P.O., or A.O.
Security Guards	Security Building Ext. 4419, 4277	None	Security Supervisor Alt: Captain of the Guard
Personnel Dosimetry Group	Dosimetry Office Ext. 4294, 4497		Personnel Dosimetry Group Leader
Plant Operators Auxiliary Plant Operators	O&C on 135" Elev. Turb. Bldg. Ext. 4369	Control Room Ext. 4223	Senior ranking P.O., A.P.O., or A.O.
On-shift Chemistry Technicians	Cold Lab 116" El. Ext. 4260	Control Room Ext. 4223	Senior Chemist or Chemistry Engineer
P&C In-Plant Const. Personnel Maintenance Personnel Emergency Damage Repair Group Janitors	Units 2 & 3, Admin. Bldg., 1st floor Ext. 4235, 4236, 4237	None	Assistant Maintenance Engr. Alt: Senior Maint. Foreman
I&C Technicians	Units 2 & 3, Admin. Bldg., 3rd floor Ext. 4428, 4478, 4575, 4576	None	Senior I&C Technician
Control Operators Asst. Control Operators Shift Supervision	Control Room Ext. 4223, 4423	ESD Panels for Units 2 and 3 (only if control room not habitable)	Shift Superintendent Alt: Shift Supervision
P&C Maintenance Electricians	Unit 1 Electrical Maintenance Shop (1st floor) Ext. 4335	None	Senior Ranking Electrical Maintenance Supervisor
Secretarial Staff In-plant Visitors Test Engineers Performance Technical Assistant Junior Technical Assistant Other Plant Staff	Units 2 & 3, Admin. Bldg., 4th floor Ext. 4246, 4253, 4256	None	Senior Test Engineer or Technical Assistant

EMERGENCY ASSEMBLY AREAS (CONT.)

Group	Primary Assembly Areas and Telephone Numbers	Alternate Assembly Areas and Telephone Numbers	Assembly Area Coordinator(s)
Respiratory Protection Group	Bechtel Bldg., Training Office - Ext. 4247,4447	None	Respiratory Protection Group Leader
Training Division			Alt: Senior Training Instructor
PBOD Construction Engineers	Bechtel Bldg., PBOD Construction Office Ext. 4535	None	Senior PBOD Construction Engineer
PBOD Systems Piling Group			
PBOD Outage Planning Division	Bechtel Bldg., PBOD Outage Planning Office Ext. 4460,4451,4551,4410	None	Senior PBOD Supervisor
PBOD Maintenance Engineers			
PBOD Field Engineers			
Outside Plant Visitors	Bechtel Building 2nd floor Ext. 4452,4451	None	Senior Ranking PBOD Escort
		PBOD Test Eng. Trailer	None Senior QA Engineer
PBOD QA Personnel	Ext. 4594		
PBOD North Warehouse Personnel			
Technical Support Center Staff:	Technical Support Center Ext. 4625,4626,4627, 4628	None	Emergency Director
Emergency Director			
Technical Support Center Control Engineers			
Data Display Operators			
Emergency Operations Facility:	Emergency Operations Facility Ext. 4640,4647,4652, 4658	None	Rad Protection Team Leader
Radiation Protection Team Leader			
Dose Assessment Group Leader			
Dose Assessment Staff			
Emergency Operations Facility Control Engineers			
Field Monitoring Team			
Data Display Operator	Emergency Operations Facility	None	Site Emergency Coordinator
Planning Coordinator	Ext. 4640,4647,4652,4658		

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PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM UNITS 2 AND 3
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-303 PARTIAL PLANT EVACUATION

PURPOSE

1. To define the actions to be performed in the event that a plant evacuation is required due to unexpected or uncontrolled hazards in two or more large operating areas.
2. Assemble personnel for a possible site evacuation.

REFERENCES

1. Peach Bottom Atomic Power Station Emergency Plan

<u>Section</u>	<u>Title</u>
6.0	Emergency Measures
2. NUREG 0654	Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.
4. EP 207B	Personnel Assembly and Accountability
5. EP 207C	First Aid
6. EP 207D	Personnel Monitoring and Decontamination.
7. EP 301	Operating the Evacuation Alarm and Pond Page System
8. EP 306	Evacuation of the Information Center
9. EP 110	Personnel Assembly and Accountability

ACTION LEVEL

1. If an Unusual Event, or Alert requires evacuation of two or more large operating areas (reactor building, turbine building, radwaste building, recombiner building) as indicated by:
 - a. An increase in the area radiation monitors or continuous air monitor indications to greater than alarm levels.
 - b. Radiation levels greater than 100mR/hr within those operating

areas affected which normally experience less than 10 mR/hr.

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- c. Airborne radioactivity greater than 3×10^{-7} uCi/cc for an unidentified isotope in an occupational environment, except for noble gas activity.

EXPOSURE TO NOBLE GASES SHALL BE CONTROLLED BASED ON RADIATION EXPOSURE (mR/hr).

- d. Release, leakage, or spill of a toxic reagent such that the concentration of chemical vapors makes the areas uninhabitable.
2. Unusual Event or Alert caused by unexplained radioactive spills, releases, or leakage in two or more large operating areas.
3. Unusual Event or Alert caused by other emergency conditions, such as fire, that may endanger human life or health as deemed necessary by Shift Supervision.

PRECAUTIONS

1. Announcements should be clear and distinct.

IMMEDIATE ACTIONS

1.0 Emergency Director shall:

- 1.1 Designate the Administration Building or another practicable onsite location as the assembly area.

Assembly Areas:

The Administration Building

IF THERE ARE NO APPROPRIATE ASSEMBLY AREAS WITHIN THE SECURITY BOUNDARY, CALL A SITE EVACUATION IN ACCORDANCE WITH EP-305

- 1.2 Notify the senior ranking security officer on shift that a plant evacuation is imminent, what assembly areas will be used, and to carry out emergency security procedures.
- 1.3 Announce a Partial Plant Evacuation over the station public address system as follows: Announcements should be clear and distinct.

THIS IS A PARTIAL PLANT EVACUATION. ALL PERSONNEL SHALL IMMEDIATELY EVACUATE THE (state plant evacuation areas) AND REPORT TO THE (state assembly areas).

ONSHIFT OPERATIONS PERSONNEL REPORT TO THE OPERATIONS SUPPORT CENTER (or control room); EMERGENCY TEAMS REPORT TO ASSIGNED

AREAS OR ADMINISTRATION BLDG. SHIFT HEALTH PHYSICS TECHNICIAN
REPORT TO THE ASSEMBLY AREA; ALL UNAFFECTED PERSONNEL REPORT TO
OR REMAIN AT YOUR NORMAL DUTY STATION.

- 1.4 Repeat the message in Step 1.3.
- 1.5 Direct activation of the evacuation sirens, in accordance with
EP 301, Operating the Evacuation Sirens and the Pond Page
System.
- 1.6 After the sirens have stopped, repeat the announcement in
Step 1.3 of this procedure and the activation of the Evacuation
Siren System.
- 1.7 Direct the evacuation of the Information Center in accordance
with EP 306, Evacuation of the Information Center.
- 1.8 Contact appropriate group supervisors to verify accountability
of individuals assigned to work in evacuated areas.

2.0 Affected Plant Personnel shall:

- 2.1 Report directly to the assembly area.
- 2.2 Report to their supervisor and inform him of anyone not
present and why they are not present, if known.
- 2.3 Separate themselves from the other plant personnel if they
believe they are contaminated.
- 2.4 Stand by for further instructions.

3.0 Personnel Safety Team shall:

- 3.1 Report to the assembly area and form groups to carry
out applicable portions of the following procedures as
necessary.

EP 207A Search and Rescue
EP 207B Personnel Assembly and Accountability
EP 207C First Aid
EP 207D Personnel Monitoring and Decontamination
EP 110 Personnel and Accountability

FOLLOW-UP ACTIONS

1.0 Emergency Director shall:

- 1.1 Direct supervisors to report any missing personnel to the Personnel Safety Team Leader.

2.0 Assembly Area Coordinator:

- 2.1 Send the list of unaccounted for personnel to Shift Superintendent or the Technical Support Center (if activated).
- 2.2 Assemble Search and Rescue Groups from available personnel in accordance with EP 207A, Search and Rescue, as directed by the Emergency Director.

PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM UNITS 2 AND 3
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-305 SITE EVACUATION

PURPOSE

To define the actions to be performed if a site evacuation is required due to unexpected or uncontrolled hazards involving the main plant and extensive site areas outside the plant.

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 207A Search and Rescue
4. EP 207B Personnel Accountability
5. EP 207C First Aid
6. EP 207D Personnel Monitoring and Decontamination
7. EP 301 Operating the Evacuation Alarm and Pond Page System
8. EP 306 Evacuation of the Information Center
9. PP 11 Security Force Actions During a Site Evacuation
10. 10 CFR 20

APPENDICES

EP 305-1 Disposition of Evacuees

ACTION LEVEL

1. Evacuate all non-essential personnel from the site when one or more of the following conditions exist:
 - a. A Site Emergency or General Emergency has been declared,
 - b. Multiple Continuous Air Monitors throughout the plant are at high alarm,
 - c. Multiple area radiation monitors throughout the plant are at high alarm,
 - d. Conditions such as smoke, fire, uncontrolled toxic materials, or flooding, preclude habitation of large portions of the site,
 - e. Airborne radioactivity outside the plant but within
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the security fence is greater than 1×10^{-9} uc/cc unidentified,
 - f. Any condition which in the opinion of the Emergency Director makes it desirable to remove unnecessary personnel.

PRECAUTIONS

1. Emergency assembly area coordinators must ensure that hazardous site locations are identified and warn personnel of these locations for the determination of the safest routes between emergency assembly areas while the emergency is in progress.
2. Only the following personnel may authorize support personnel without Peach Bottom identification cards access to the site during a Plant Emergency:

Site Emergency Coordinator	Emergency Director	Security Director
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3. If a designated emergency assembly area coordinator is not present at an assembly area, the next senior plant staff member will assume the responsibility.

IMMEDIATE ACTIONS

- 1.0 Emergency Director shall:
 - 1.1 Determine which assembly area will be used. If the wind is from the north at greater than 3 miles per hour, designate the North Substation as the assembly area. Otherwise, designate the President's Utility Building (PUB). The alternate location is the Delta Service Building.
 - 1.2 Notify the senior ranking security officer on shift that a site evacuation is imminent and tell him to carry out applicable emergency security procedures.

- 1.3 Announce a site evacuation over the public address system as follows: (Announcements should be clear and distinct)

THIS IS A SITE EVACUATION. ALL PERSONNEL EVACUATE TO THE (state designated assembly area). ON-SHIFT OPERATIONS PERSONNEL REPORT TO THE OPERATIONS SUPPORT CENTER OR THE CONTROL ROOM; PERSONNEL SAFETY TEAM, REPORT TO THE HP OPERATIONS SUPPORT CENTER. OTHER EMERGENCY TEAMS REPORT TO EMERGENCY ASSEMBLY AREAS AND AWAIT FURTHER INSTRUCTIONS.

- 1.4 Repeat the announcement.
- 1.5 Sound the evacuation sirens, including the Pond Page System, in accordance with EP 301, Operating the Evacuation Sirens and Pond Page System.
- 1.6 After the sirens have stopped, repeat the announcement and sound the evacuation sirens and the Pond Page System again.
- 1.7 Direct the evacuation of the Information Center in accordance with EP 306, Evacuation of the Information Center.

- 2.0 Plant Personnel (except designated emergency team members) shall:

- 2.1 Evacuate the site and report to the announced assembly area. If the area is inaccessible, you will be directed to an alternate assembly area.

- 3.0 Shift Personnel shall:

- 3.1 Report to the Operations Support Center or the Control Room.

- 4.0 Emergency Team Members having emergency response roles shall:

- 4.1 Report to Emergency assembly areas and await further instructions.

FOLLOW-UP ACTIONS

- 1.0 Emergency Director or Interim Emergency Director shall:

- 1.1 Contact the Personnel Safety Team Leader to conduct Search and Rescue operations if required to locate missing personnel.

- 2.0 Personnel Safety Team Leader Shall:

- 2.1 Conduct Search and Rescue operations if missing personnel are suspected to be in need of help.

3.0 Emergency Assembly Area Coordinator Shall:

- 3.1 Record names and security badge numbers of all individuals reporting to the assembly area. Rosters of personnel assigned to assembly areas should be available in each area to assist in the personnel accountability.

- 3.2 Conduct a roll call (if necessary to verify an accurate muster list.

- 3.3 Report to the Security Supervisor: the names, security badge numbers, and identification numbers of personnel at any onsite assembly areas.

- 3.4 Maintain a log of names and badge numbers of all personnel leaving and returning to assembly areas.

If the Emergency Assembly Area Coordinator is required to leave the assembly area, assign an individual to complete steps 2.1 through 2.6 for subsequent accountability checks.

- 3.5 If available, provide information on hazardous areas and best route to be traveled for minimizing radiation exposure. This information may be available from the Personnel Safety Team Leader in the Technical Support Center at Unit 1 or the AUXOSC.

- 3.6 If the entire group of assembled personnel are to move to a new location, perform steps 2.1 through 2.6 to ensure accountability is continuous if the entire group of assembled personnel are to move to a new location.

APPENDIX EP 305-1
APPENDIX EP 305-1 DISPOSITION OF EVACUEES

NO. DISP.	1	P.E. 2	EMP. NAME	3	HARSHAW BADGE NO. OR ADDRESS	RETENTION		CONTINUATION LEVEL/LOCATION
						EXP. CHECK	5	
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

PREPARED BY _____ DATE ____/____/____ FOR RETENTION

NOTES 1 DISPOSITION D-DETAINED 2 P.E. EMPLOYEE 3 ADDRESS IF 4 CONTINUATION LEVEL 5 ENTER:
R-RELEASED CHECK IF YES NOT SITE EMPLOYEE WITH UNITS
POB
NSC

EMERGENCY ASSEMBLY AREAS

GROUP	PRIMARY ASSEMBLY AREAS AND TELEPHONE NUMBERS	ALTERNATE ASSEMBLY AREAS AND TELEPHONE NUMBERS	ASSEMBLY AREA COORDINATORS
HP TECHNICIANS PHYSICISTS JANITORS	AUXILIARY OPERATIONS SUPPORT CENTER EXT. 5262	UNITS 2 & 3, ADMIN. BLDG. 2ND FLOOR EXT. 4226	PLANT SURVEY GROUP LEADER
CHEMISTRY TECHNICIANS ON-SHIFT HP TECHNICIANS		(USE ONLY IF AUX. OPERATIONS SUPPORT CENTER IS INHABITABLE)	ALT: FIELD SURVEY GROUP LEADER
FIRE FIGHTING GROUP	OPERATIONS SUPPORT CENTER EXT. 4369 (EXCEPT FOR SHIFT SUPERVISION)	CONTROL ROOM EXT. 4223	SENIOR RANKING P.O. A.P.O., OR A.O.
SECURITY GUARDS	SECURITY BUILDING EXT. 4419, 4277	NONE	SECURITY SUPERVISOR ALT: CAPTAIN OF THE GUARD
PERSONNEL DOSIMETRY GROUP	DOSIMETRY OFFICE EXT. 4294, 4497		PERSONNEL DOSIMETRY GROUP LEADER
PLANT OPERATORS AUXILIARY PLANT OPERATORS	OSC ON 135' ELEV. TURB. BLDG. EXT. 4369	CONTROL ROOM EXT. 4223	SENIOR RANKING P.O., A.P.O., OR A.O.
ON-SHIFT CHEMISTRY TECHNICIANS EXT. 4260	COLD LAB 115' EL. EXT. 4223	CONTROL ROOM CHEMISTRY ENGINEER	SENIOR CHEMIST OR
PERSONNEL MAINTENANCE PERSONNEL EMERGENCY DAMAGE REPAIR GROUP	PECO IN-PLANT CONST. BLDG., 1ST FLOOR EXT. 4235, 4236, 4237	UNITS 2 & 3, ADMIN.	NONE ASSISTANT MAINTENANCE ENGR. ALT: SENIOR MAINT. FOREMAN
I&C TECHNICIANS	UNITS 2 & 3, ADMIN. BLDG., 3RD FLOOR EXT. 4438, 4478, 4575, 4576	NONE	SENIOR I&C TECHNICIAN
CONTROL OPERATORS ASST. CONTROL OPERATORS SHIFT SUPERVISION	CONTROL ROOM EXT. 4223, 4423	ESO PANELS FOR UNITS 2 AND 3 (ONLY IF CONTROL ROOM NOT HABITABLE)	SHIFT SUPERINTENDENT ALT: SHIFT SUPERVISION
PECO MAINTENANCE ELECTRICIANS	UNIT 1 ELECTRICAL MAINTENANCE SHOP (1ST FLOOR) EXT. 4335	NONE	SENIOR RANKING ELECTRICAL MAINTENANCE SUPERVISOR
TEST ENGINEERS PERFORMANCE TECHNICAL ASSISTANT JUNIOR TECHNICAL ASSISTANT OTHER PLANT STAFF		NONE	SENIOR ENGINEER

EMERGENCY ASSEMBLY AREAS (CONT.)

GROUP	PRIMARY ASSEMBLY AREAS AND TELEPHONE NUMBERS	ALTERNATE ASSEMBLY AREAS AND TELEPHONE NUMBERS
RESPIRATORY PROTECTION	BIOCHEM. BLDG., TRAINING OPTICS - EXT. 4247, 3447	NONE
GROUP		
TRAINING DIVISION		
PROD OUTAGE PLANNING	TECHNICAL SUPPORT CENTER	NONE
DIVISION	EXT. 4625, 4626, 4627, 4628	
PROD MAINTENANCE		
ENGINEERS		
TECHNICAL SUPPORT CENTER	TECHNICAL SUPPORT CENTER	NONE
STAFF:	EXT. 4625, 4626, 4627, 4628	
EMERGENCY DIAGNOSTIC		
TECHNICAL SUPPORT CENTER		
CONTROL ENGINEERS		
DATA DISPLAY OPERATORS		
EMERGENCY OPERATIONS	EMERGENCY OPERATIONS FACILITY	NONE
FACILITY:	EXT. 4640, 4647, 4652, 4658	
RADIATION PROTECTION		
TEAM LEADER		
DOSE ASSESSMENT GROUP		
LEADER		
DOSE ASSESSMENT STAFF		
EMERGENCY OPERATIONS		
FACILITY CONTROL ENGINEERS		
FIELD MONITORING TEAM		
DATA DISPLAY OPERATOR	EMERGENCY OPERATIONS FACILITY	NONE
PLANNING COORDINATOR	EXT. 4640, 4647, 4652, 4658	
ASSEMBLY AREA COORDINATOR(S)		
RESPIRATORY PROTECTION		
GROUP LEADER		
ALT: SENIOR TRAINING INSTRUCTOR		
EMERGENCY DIRECTOR		
RAD PROTECTION TEAM		
LEADER		
SITE EMERGENCY COORDINATOR		