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## EMERGENCY PLAN PROCEDURES INDEX

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Rev. 34 \*

08/01/83 \*

Director  
Emergency  
Preparedness

JUL 8 1983

## PEACH BOTTOM UNITS 2 AND 3

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## PEACH BOTTOM UNITS 2 AND 3

08/01/83 \*

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

EP-103 ALERT RESPONSE

PURPOSE

To define site response to an Alert.

REFERENCES

1. Peach Bottom Atomic Power Station Emergency Plan
2. NUREG 0654
3. GP-15 Local Evacuation
4. EP-101 Classification of Emergencies

APPENDICES

EP-103-1 Alert Notification Checkoff List  
EP-103-2 Personnel Call Record  
EP-103-3 Emergency Exposure Limits (Emergency Plan Table 6.1)

PRECAUTIONS

1. Planned radiation exposures should be limited to the administrative guide levels in Appendix EP 103-3, Emergency Exposure Limits.

IMMEDIATE ACTIONS

1.0 Shift Supervision shall:

- 1.1 Assume the role of Interim Emergency Director.
- 1.2 Activate Emergency Teams as necessary.
- 1.3 Direct the evacuation of affected areas as necessary.  
Refer to the following procedures:

GP-15 Local Evacuation  
EP-303 Partial Plant Evacuation  
EP 305 Site Evacuation

EP 306 Evacuation of the Information Center

- 1.4 Contact the Station Superintendent and the Shift Technical Advisor, inform them of the situation.
  - 1.5 Fill out the Standard Prompt Notification message check-off Appendix EP 103-1 and give it to the communicator (PO or higher classification) and direct the Communicator to commence notification of the appropriate parties as specified in Section 2.1 of this procedure. The Communicator shall man the NRC RED telephone on a continuous basis if required by procedure A-31. If communicator is required for urgent plant operations related to the emergency, the concurrence for securing the phone should be obtained from the NRC prior to securing this telephone.
  - 1.6 Direct the Shift Clerk to activate the 60 minute call list using EP 209 APP P. If Shift Clerk is not available, this function shall be assigned to any available individual.
  - 1.7 Direct one of the on-shift I&C Technicians to activate the Technical Support Center and Emergency Operations Facility in accordance with EP 201 and EP-203. Inform shift clerk which I&C technician will activate the centers at Unit 1 in order that the clerk will know which remaining I&C technician to call for the prompt mobilization procedure.
  - 1.8 Direct the Personnel Safety Team Leader to initiate site radiation surveys as necessary, in accordance with EP-205B, Radiation Survey Groups.
  - 1.9 Assign an Operations Support Center Coordinator (senior shift PO or APO available) and direct available shift personnel to report to the Operations Support Center on 135' elev. turbine bldg. and to activate it in accordance with EP 202, if habitable. If this Operations Support Center is NOT habitable, direct shift personnel to report to the Control Room.
  - 1.10 Closely monitor conditions to determine present hazards to personnel and potential accident conditions that may develop.
  - 1.11 If release has occurred, dispatch a plant survey team member to obtain a site boundary dose rate as soon as practicable.
  - 1.12 If necessary, initiate implementation of EP-317 & EP-316. Direct recommendations to County Emergency Management Agencies and cumulative population dose calculations.
- 2.0 Communicator shall:
- 2.1 Perform notifications on Appendix 103-1 using the alert Notification Check Off Appendix EP 103-1. See EP 209, Appendix A for additional telephone numbers.

- 2.2 Report to the Emergency Director or Interim Emergency Director when notifications are complete.
- 2.3 Man the RED NRC telephone if required by A-31 until situation stabilizes and RED telephone communication may be secured.
- 3.0 Operations Support Center Coordinator or his designee shall:
  - 3.1 Activate the Operations Support Center on 135' elev. turbine bldg, if it is habitable, in accordance with EP 202. If this Operations Support Center is not habitable, report to the Control Room.
- 4.0 Personnel Safety Team Leader shall:
  - 4.1 Initiate site radiation surveys in accordance with EP-205B, Radiation Survey Groups when directed by the Emergency Director. (The HP field office on 116' elev. turb. bldg. will serve as the HP&C OSC).
- 5.0 Shift I&C Technician shall:
  - 5.1 Activate the TSC and EOF when directed by Interim Emergency director in accordance with EP 201 using Appendix EP-201-2.
- 6.0 Shift Clerk shall:
  - 6.1 Contact individuals on EP 209 APP P to call in those individuals to man TSC and required Emergency Teams (60 minute call list). Document contacts on EP 209 APP P.
  - 6.2 Inform Interim Emergency Director or Emergency Director when contacts are completed.

## FOLLOW-UP ACTIONS

### 1.0 Emergency Director shall:

- 1.1 Periodically evaluate the event classification in accordance with EP 101, Classification of Emergencies, and escalate or deescalate the classification, as necessary.
- 1.2 Obtain the results of the Cumulative Population Dose Calculations from the Radiation Protection Team Leader and onsite radiation surveys from the Personnel Safety Team Leader, as necessary.
- 1.3 Perform actions as necessary to mitigate conditions of the emergency situation.
- 1.4 Determine which additional support personnel are necessary for emergency functions and direct the Shift Clerk or other assigned communicator in TSC to contact those personnel.
- 1.5 Provide site personnel with P.A. speaker announcements for any major changes in plant emergency status, such as changing emergency action levels and evacuations.

### 2.0 Station Superintendent shall:

- 2.1 Report to the Technical Support Center or Control Room for a briefing of the situation.
- 2.2 Assume the role of Emergency Director by formally relieving the Interim Emergency Director (Shift Superintendent). Announce that he has assumed the role of Emergency Director to the assembled Technical Support Center personnel.
- 2.3 Verify the emergency classification.
- 2.4 Verify that the Technical Support Center, the Emergency Operations Facility, and the Operations Support Center have been activated.

### 3.0 Operations Support Center Coordinator shall:

- 3.1 Notify the Interim Emergency Director when their respective Operations Support Center is activated.
- 3.2 Support the Control Room and Shift Supervision as necessary.

### 4.0 Radiation Protection Team Leader shall:

- 4.1 Report progress and results of Cumulative Population Dose Calculations to the Emergency Director as necessary.

### 5.0 Personnel Safety Team Leader shall:

- 5.1 Report progress and results of onsite radiation surveys to the Emergency Director as necessary.
- 6.0 Shift Clerk or assigned TSC communicator shall:
  - 5.1 Notify additional support personnel to report to the plant as directed by the Interim Emergency Director. Refer to EP 209. Document on APP EP-103-2.
  - 5.2 Notify the Interim Emergency Director when the additional support personnel have been notified.
- 7.0 Shift I&C Technician shall:
  - 6.1 Inform the Interim Emergency Director when the TSC and EOF are activated.
  - 6.2 Station himself at the TSC as data display (OCTV) operator as directed by the Emergency Director.



APPENDIX EP 103-1  
ALERT CHECKOFF LIST

MESSAGE: This (is) (is not) a drill. This (is) (is not) a  
drill. This is Peach Bottom Atomic Power Station calling to report  
an Alert has been declared on Unit No. \_\_\_\_\_. Time and date of Alert  
classification is \_\_\_\_\_. The basic problem is \_\_\_\_\_

\_\_\_\_\_.

The plant status is (stable) (improving) (degrading) (not known).  
There (is presently) (has not been) (is potential for) (has been) a  
radioactive (airborne) (liquid) release from the plant (at a level  
below that considered a public hazard) (at a level at which protective  
action is advisable). Recommended protective actions are (none)







\_\_\_\_\_. The affected population area is  
(none) \_\_\_\_\_. My name is \_\_\_\_\_  
\_\_\_\_\_. This (is) (is not) a drill. This (is) (is not) a drill.

NOTIFICATIONS:

<u>PARTY</u>	<u>PERSON RESPONDING</u>	<u>TIME OF NOTIFICATION</u>	<u>COMMUNICATOR'S INITIALS</u>
Station Superintendent	_____	_____	_____
Load Dispatcher (Tell him to initiate call list "C")	_____	_____	_____
Pennsylvania Emergency Management Agency* (Blue Phone or _____)	_____	_____	_____
Maryland Civil Defense Agency (Blue Phone or _____)	_____	_____	_____
York County Emergency Management Agency (Blue Phone or _____)	_____	_____	_____



APPENDIX EP 103-1 (Cont'd)  
ALERT CHECKOFF LIST

Lancaster County Emergency Management Agency (Blue Phone or 	_____	_____	_____
Chester County Emergency Management Agency (Blue Phone or 	_____	_____	_____
Harford County Civil Defense Agency (Blue Phone or 	_____	_____	_____
Cecil County Civil Defense Agency (Blue Phone or 	_____	_____	_____
NRC Operations Center (Red Phone)	_____	_____	_____
PA BRP (White Phone or 	_____	_____	_____
PSAPS Guard Sergeant 	_____	_____	_____

Time notifications of parties above completed \_\_\_\_\_.

Verified By \_\_\_\_\_ Date \_\_\_\_\_  
Emergency Director

\*Must notify PEMA by use of commercial telephone no. on  
backshifts. (Blue Phone not manned by PEMA on  
backshifts).

File under Sys-3-1

APPENDIX EP 103-2  
PERSONNEL CALL RECORD

[illegible]

APPENDIX EP 103-3  
Emergency Exposure Limits

<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	Administra- tive Guide- lines	Adminis- trative Guide- lines	N/A

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

\*\*Such exposure shall be on a voluntary basis

APPENDIX EP-103-4  
ALERT, DEESCALATION NOTIFICATION CHECK-OFF LIST

MESSAGE: This (is) (is not) a drill. This (is) (is not) a drill.

This is Peach Bottom Atomic Power Station calling to report a change in emergency action level. The alert has been deescalated to an Unusual Event.

Time and date is \_\_\_\_\_. The basic problem is \_\_\_\_\_

\_\_\_\_\_. The plant status is (stable) (improving)

(degrading) (not known). There (has been) (has not been) an (airborne)

(liquid) radioactive release from the plant. Protective actions recommended

are (none) \_\_\_\_\_. The affected population area is


(none) \_\_\_\_\_. My name is \_\_\_\_\_. This


(is) (is not) a drill.


Notifications:


<u>Party</u>	<u>Person Responding</u>	<u>Time of Notification</u>	<u>Communicator's Initials</u>
Station Superintendent	_____	_____	_____
Load Dispatcher	_____	_____	_____
(Tell him to initiate call list "C")			
Pennsylvania Emergency Management Agency*	_____	_____	_____
(Blue phone or _____)			
Maryland Civil Defense Agency	_____	_____	_____
(Blue phone or _____)			
York County Emergency Management Agency	_____	_____	_____
(Blue phone or _____)			
Lancaster County Emergency Management Agency	_____	_____	_____
(Blue phone or _____)			


APPENDIX EP-103-4  
ALERT, DEESCALATION NOTIFICATION CHECK-OFF LIST

Chester County Emer-  
gency Management  
Agency  
(Blue phone or  \_\_\_\_\_)


Harford County Civil  
Defense Agency  
(Blue phone or  \_\_\_\_\_)

Cecil County Civil  
Defense Agency  
(Blue phone or  \_\_\_\_\_)

Pennsylvania State  
Police - York  
 \_\_\_\_\_

PA. BRP  
(White Phone or  \_\_\_\_\_)

NRC Operations Center\*\*  
(Red Phone) \_\_\_\_\_

PSAPS Guard Sergeant  
 \_\_\_\_\_

Time notification of parties above completed. \_\_\_\_\_

Verified by \_\_\_\_\_ Date \_\_\_\_\_  
Emergency Director

File Sys-3-1

\* Must notify FEMA by use of commercial telephone no. on backshifts.  
(Blue phone not manned by FEMA on backshifts).

DIS. REL. FROM:

*For Director Emerg. Prep.*

SS - S&V

Control Rm.

Station Super.

Office

PHILADELPHIA ELECTRIC COMPANY

PEACH BOTTOM UNITS 2 AND 3

EMERGENCY PLAN IMPLEMENTING PROCEDURES

## EP-104 SITE EMERGENCY RESPONSE

### PURPOSE

To define the site response to a Site Emergency.

### REFERENCES

1. Peach Bottom Atomic Power Station Emergency Plan
2. NUREG 0654
3. EP-101 Classification of Emergencies

### APPENDICES

- EP 104-1 Site Emergency Notification Checkoff List
- EP-104-2 Personnel Call Record
- EP 104-3 Emergency Exposure Limits (Emergency Plan Table 6.1)

### PRECAUTIONS

1. Planned radiation exposures should be limited to the administration guide levels in Appendix EP 104-3, Emergency Exposure Limits.

### IMMEDIATE ACTIONS

#### 1.0 Shift Supervision shall:

- 1.1 Assume the role of Interim Emergency Director.
- 1.2 If not already done at an earlier emergency action level, activate Emergency Teams as necessary.
- 1.3 Contact the Station Superintendent and the Shift Technical Advisor, inform them of the situation.
- 1.4 Fill out Appendix EP 104-1 Standard Prompt Notification Message and give it to the Communicator (PO or higher classification) and Direct the Communicator to commence notification of the appropriate parties as specified in Section 2.1 of this procedure. The Communicator shall man the NRC RED Telephone on a continuous basis, if required by A-31. If Communicator is required for urgent plant operations related to the emergency, the concurrence for securing

The phone should be obtained from NRC prior to securing this telephone.

- 1.5 If not already accomplished at the ALERT stage, direct the shift clerk to activate the 60 minute call list using EP 209 APP P. If shift clerk is not available, this function may be assigned to any available individual.
- 1.6 Direct one of the on-shift I&C technicians to activate the Technical Support Center and Emergency Operations Facility in accordance with EP 201 and 203 if not already activated. If not already performed previously, inform the shift clerk which I&C Technician will activate the centers at Unit 1 in order to let the clerk know which remaining I&C Technician to call for the prompt mobilization procedure.
- 1.7 Direct the Radiation Protection Team Leader to initiate on- and off site radiation surveys, as necessary, if not already done in accordance with EP 205B, Radiation Survey Groups.
- 1.8 Assign an Operations Support Center coordinator (Senior PO or APO available) if not already done and direct available shift personnel to report to this Operations Support Center and to activate it in accordance with EP 202 if habitable. If this Operations Support Center is not habitable, direct shift personnel to report to the Control Room.
- 1.9 Closely monitor conditions to determine present hazards to personnel and potential accident conditions that may develop.
- 1.10 If release has occurred, dispatch a plant survey team member to obtain a site boundary dose rate as soon as practicable.
- 1.11 If necessary, initiate implementation of EP-317 and EP-316, Direct Recommendations to County Emergency Management Agencies, and Cumulative Population Dose Calculations.
- 1.12 Declare a site evacuation in accordance with EP-205 "Site Evacuation" if not already initiated.

## 2.0 Communicator shall:

- 2.1 Perform notifications on Appendix 104-1 using the Standard Prompt Notification Message included. See EP-209 Appendix A for additional telephone numbers, if required.
- 2.2 Report to the Emergency Director when the notifications are completed.
- 2.3 Man the RSD NRC telephone if required A-31 until situation stabilizes and RSD telephone communications may be secured.



3.0 Operations Support Center Coordinator or his designee shall:

- 3.1 Activate the Operations Support Center on 135' elev turb  
bldg, if it is habitable, in accordance with EP 202.  
If this Operations Support Center is NOT habitable report  
to the Control Room.

4.0 Radiation Protection Team Leader shall:

- 4.1 Initiate on- and off site radiation surveys in  
accordance with EP 205B, Radiation Survey Groups, when  
directed by the Emergency Director. If this person is  
the HP Engineer he should report to the EOF to  
coordinate this function.

5.0 Shift I&C Technician shall:

- 5.1 Activate the TSC and EOF (if not already activated  
during ALERT stage) in accordance with EP 201 using  
Appendix EP-201-2 and procedure EP-203.

6.0 Shift Clerk shall:

- 6.1 If not already implemented during ALERT stage, contact  
individuals on EP 209 APP P to call in those individuals  
to man TSC and EOF (60 minute call list). Document contacts  
on EP 209 APP P.
- 6.2 Inform Interim Emergency Director or Emergency Director  
when contacts are completed.

FOLLOW-UP ACTIONS

1.0 Emergency Director shall:

- 1.1 Periodically evaluate the event classification in  
accordance with EP 101, Classification of Emergencies  
and escalate or deescalate the classification, as  
necessary.
- 1.2 Obtain results of the Cumulative Population Dose  
Calculations and offsite radiation surveys from  
the Radiation Protection Team Leader. Obtain Onsite  
and Plant Radiation Surveys from the Personnel Safety  
Team Leader, as necessary.
- 1.3 Provide appropriate information from the previous  
evaluations to Communicator in the EOF for notifi-  
cation of the Bureau of Radiation Protection.
- 1.4 Perform actions as necessary to mitigate conditions  
of the emergency situation.
- 1.5 Determine which additional support personnel are  
necessary for emergency functions and direct the

shift clerk or other assigned communicator  
to contact those personnel.

1.6 Provide site personnel with P.A. speaker announcements for  
any major changes in plant emergency status, such as changing  
emergency action levels and evacuations.

1.7 Direct the Evacuation of affected areas as necessary.  
Refer to the following procedure:

- GP 15 Local Evacuation
- EP 303 Partial Plant Evacuation
- EP 306 Evacuation of the Information Center

2.0 Station Superintendent shall:

- 2.1 Report to the Technical Support Center or Control  
Room, for a briefing of the situation.
- 2.2 Assume the role of Emergency Director (if not already  
done) by formally relieving the interim Emergency Director  
of this responsibility. Announce that he has assumed the  
role of Emergency Director to the assembled Technical Support  
Center personnel.
- 2.3 Verify the emergency classification.
- 2.4 Verify that the Technical Support Center, Emergency  
Operations Facility and the Operations Support Center  
have been activated.

3.0 Operations Support Center Coordinator shall

- 3.1 Notify the Interim Emergency Director or Emergency  
Director when the Operations Support Center is  
activated.
- 3.2 Support the Control Room and Shift Supervision as  
necessary.

4.0 Radiation Protection Team Leader shall:

- 4.1 Notify the Emergency Director when the Emergency  
Operations Facility is manned.
- 4.2 Report progress and results of Cumulative Population  
Dose Calculations and off site radiation surveys  
to the Site Emergency Coordinator and Emergency Director  
as necessary.
- 4.3 Notify the Site Emergency Coordinator of the need for  
assistance from Radiation Management Corporation.

5.0 Shift Clerk or other assigned person shall:

- 5.1 If not already done, notify additional support personnel.

to report to the plant as directed by the Emergency Director. Refer to EP 209. Document on APP EP 104-2

- 5.2 Notify Emergency Director or Site Emergency Coordinator when the additional support personnel have been notified.

6.0 IsC Technicians shall: (if not already performed as per EP-103)

- 6.1 Inform the Emergency Director when the centers are activated, if not previously done.

- 6.2 Man the TSC or EOF data display (CCTV) positions as directed by the Emergency Director.

7.0 Personnel Safety Team Leader shall:

Report progress and results of onsite and inplant radiation surveys to the Site Emergency Coordinator and Emergency Director as necessary.

APPENDIX 104-1  
SITE EMERGENCY NOTIFICATION CHECKOFF LIST

\_\_\_\_ (is) (is not) a drill. This (is) (is not) a drill. This is Peach Bottom Atomic Power Station calling to report a site emergency has been declared on Unit \_\_\_\_\_. Time and date of site emergency classification is \_\_\_\_\_.

The basic problem is \_\_\_\_\_.

The plant status is (stable) (improving) (degrading) (not known).

There (has not been) (is potential for) (has been) (is presently) a radioactive (airborne) (liquid) release from the plant (at a level below that considered a public hazard) (at a level at which protective action is advisable). Recommended protective actions are (none) \_\_\_\_\_.

The affected population area is (none) \_\_\_\_\_.

My name is \_\_\_\_\_. This (is) (is not) a drill.

This (is) (is not) a drill.

Notifications	Person Responding	Time of Notification	Communicator's Initials
Party Station Superintendent	_____	_____	_____
Local Dispatcher	_____	_____	_____
(Bell run to initiate call list "C")			
Pennsylvania Emergency Management Agency* (Blue phone on _____)	_____	_____	_____
Maryland Civil Defense Agency (Blue phone on _____)	_____	_____	_____
York County Emergency Management Agency (Blue phone on _____)	_____	_____	_____

APPENDIX 104-1 (Cont'd)  
SITE EMERGENCY NOTIFICATION CHECKOFF LIST

Lancaster County  
Emergency Manage-  
ment Agency  
(Blue phone or

Chester County Emer-  
gency Management  
Agency  
(Blue phone or

Harford County Civil  
Defense Agency  
(Blue phone or

Cecil County Civil  
Defense Agency  
(Blue phone or

Pennsylvania State  
Police - York  
(1-343-6355)

PA. BRP  
(White Phone or

NRC Operations Center\*\*  
(Red Phone)

PBA26 Guard Sergeant  
(4292)

Time notification of parties above completed.

Verified by \_\_\_\_\_ Date \_\_\_\_\_  
Emergency Director

File Sys-3-1

\* Must notify PLWA by use of commercial telephone no. on backshifts.  
(Blue phone not manned by PLWA on backshifts).

\*\* If NRC previously notified during ALERT condition, the  
assigned AO communicator continuously manning red phone in  
control room should handle this notification automatically.  
However, check with Control Room to be sure. This notifi-  
cation is made.





APPENDIX EP 104-3  
EMERGENCY EXPOSURE LIMITS

<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/Re- covery Activities	Administrative Guide Lines	Administrative Guide Lines	N/A

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

\*\*Such exposure shall be on a voluntary basis



APPENDIX EP-104-4  
SITE EMERGENCY DEESCALATION NOTIFICATION CHECK-OFF LIST

MESSAGE: This (is) (is not) a drill. This (is) (is not) a drill.

This is Peach Bottom Atomic Power Station calling to report a change in emergency action level. The site emergency has been deescalated to an (Unusual Event) (Alert). Time and date is \_\_\_\_\_. The basic problem is \_\_\_\_\_.

The plant status is (stable) (Improving) (degrading) (not known). There (has been) (has not been) an (airborne) (liquid) radioactive release from the plant. Protective actions recommended are (none) \_\_\_\_\_.

. The affected population area is (none) \_\_\_\_\_.

. My name is \_\_\_\_\_ This (is)

(is not) a drill.

Notifications:

Party	Person Responding	Time of Notification	Communicator's Initials
Station Superintendent	_____	_____	_____
Local Dispatcher	_____	_____	_____
(Tell him to initiate call list "C")			
Pennsylvania Emergency Management Agency/ (Blue phone # _____)	_____	_____	_____
Maryland Civil Defense Agency (Blue phone # _____)	_____	_____	_____
York County Emergency Management Agency/ (Blue phone # _____)	_____	_____	_____
Lancaster County Emergency Management Agency/ (Blue phone # _____)	_____	_____	_____

APPENDIX EP 104-4 (Cont'd)  
THE EMERGENCY DEESCALATION NOTIFICATION CHECKOFF LIST

Shelby County Sheriff-  
John J. Mangione  
Agency  
(Blue phone or

Mariposa County Civil  
Defense Agency  
(Blue phone or

Cecil County Civil  
Defense Agency  
(Blue phone or

Pennsylvania State  
Police - York

PA BRP  
(White Phone or

MWD Operations Center\*\*  
(Red Phone)

PAAPS Guard Sergeant

Time notification of parties above completed.

Verified by \_\_\_\_\_ Date \_\_\_\_\_  
Emergency Director

File 5/2-3-1

\* Must notify PMA by use of commercial telephone no. on backshifts.  
(Blue phone not manned by PMA on backshifts).

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SS - SSV  
Control Rm.  
Station Super.  
Office

PHILADELPHIA ELECTRIC COMPANY

PEACH BOTTOM UNITS 2 AND 3

EMERGENCY PLAN IMPLEMENTING PROCEDURE

*[Signature]*  
APR 9 1983

EP-105 GENERAL EMERGENCY RESPONSE

PURPOSE

To define the site response to a General Emergency.

REFERENCES

1. Peach Bottom Atomic Power Station Emergency Plan
2. NUREG 0654
3. EP-101 Classification of Emergencies

APPENDICES

- EP 105-1 General Emergency Checkoff List  
EP 105-2 Personnel Call Record  
EP 105-3 Emergency Exposure Limits (Emergency Plan Table 6.1)

PRECAUTIONS

1. Planned radiation exposures should be limited to the administrative guide levels in Appendix EP 105-4 Emergency Exposure Limits.

IMMEDIATE ACTIONS

1.0 Shift Supervision shall:

- 1.1 Assume the role of Interim Emergency Director.
- 1.2 Activate Emergency Teams as necessary if not already accomplished at an earlier emergency action level.
- 1.3 Contact the Station Superintendent and the Shift Technical Advisor, inform them of the situation.
- 1.4 Fill out Appendix EP 105-1 Standard Prompt Notification Form and give it to the Communicator (PO or higher classification)
- 1.5 Direct Communicator to commence notification of the appropriate parties as specified in Section 2.1 of this procedure. The Communicator shall man the NRC RED Telephone on a

continuous basis if required by A-31. If communicator is required for urgent plant operations related to the emergency, the concurrence for securing the phone should be obtained from the NRC prior to securing this telephone.

- 1.6 If not already accomplished at the ALERT or SITE EMERGENCY stage, direct the shift clerk to activate the 60minute call list using EP 209 APP P. If shift clerk is not available, this function may be assigned to any available individual.
- 1.7 Direct one of the on-shift I&C Technicians to activate the Technical Support Center and the Emergency Operations Facility in accordance with EP 201 and 203 if not already activated.
- 1.8 Direct the Radiation Protection Team Leader to initiate on and offsite radiation surveys, as necessary, in accordance with EP 205B, Radiation Survey Groups, if not already done.
- 1.9 Assign an Operations Support Center Coordinator (senior PO or APO available) if not already done and direct available shift personnel to report to the Operations Support Center and to activate it in accordance with EP 202, if habitable. If the Operations Support Center is NOT habitable, direct shift personnel to report to the Control Room.
- 1.10 Closely monitor conditions to determine present hazards to personnel and potential accident conditions that may develop.
- 1.11 If release has occurred, dispatch a plant survey team member to obtain a site boundary dose rate as soon as practicable.
- 1.12 If necessary, initiate implementation of EP-317 and EP-316, Direct Recommendations to County Emergency Management Agencies, and Cumulative Population Dose Calculations.
- 1.13 Declare a site evacuation in accordance with EP-305 "Site Evacuation" if not already initiated.

2.0 Communicator shall:

- 2.1 Perform notifications on Appendix EP 105-1 using the Standard Prompt Notification Message included.  
See EP 209, Appendix A, for telephone numbers.
- 2.2 Report to the Emergency Director when the notifications are completed.
- 2.3 Man the RED NRC telephone if required by A-31 until situation stabilizes and RED telephone communications may be secured.

3.0 Operations Support Center Coordinator or his designee shall:

- 3.1 Activate the Operations Support Center, if it is habitable, in

accordance with EP 202. If the Operations Support Center is NOT habitable report to the Control Room.

4.0 Radiation Protection Team Leader shall:

- 4.1 Initiate on and off site radiation surveys in accordance with EP 205B, Radiation Survey Groups when directed by the Emergency Director. If this person is also the HP Engineer he should report to the EOF to coordinate this function.

5.0 Shift I&C Technicians shall:

- 5.1 Activate the TSC and EOF (if not already activated during ALERT or SITE EMERGENCY stage) in accordance with EP 201 and EP 203.

6.0 Shift Clerk shall:

- 6.1 If not already implemented during ALERT or SITE EMERGENCY stage, contact individuals on EP 209 APP P to call in those individuals to man the TSC and EOF (60 minute call list). Document contacts on EP 209 APP P.
- 6.2 Inform Interim Emergency Director or Emergency Director when contacts are completed.

FOLLOW-UP ACTIONS

1.0 Emergency Director shall:

- 1.1 Periodically evaluate the event classification in accordance with EP 101, Classification of Emergencies. If the conditions change, deescalate to an appropriate classification.
- 1.2 Obtain results of the Cumulative Population Dose Calculations offsite radiation surveys from the Radiation Protection Team Leader. Obtain onsite and Plant Survey Radiation Surveys from the Personnel Safety Team Leader.
- 1.3 Referring to EP-317, provide appropriate information from the previous evaluations and Protective Action recommendations to a Communicator in the EOF for notification of the Bureau of Radiation Protection.
- 1.4 Perform actions as necessary to mitigate conditions of the emergency situation.
- 1.5 If not already performed, determine which additional support personnel are necessary for emergency functions and direct the shift clerk or other assigned person to contact those personnel.
- 1.6 Provide site personnel with PA speaker announcements for any major changes in plant emergency status, such as changing



emergency action levels.

- 1.7 Direct the evacuation of affected areas, as necessary.  
Refer to the following procedures:

GP 15 Local Evacuation

EP 303 Partial Plant Evacuation

EP 306 Evacuation of the Information Center

2.0 Station Superintendent shall:

- 2.1 Report to the Technical Support Center or Control Room,  
for a briefing of the situation.
- 2.2 Assume the role of Emergency Director (if not already done)  
by formally relieving the Interim Emergency Director. Announce  
that he has assumed the role of Emergency Director to the  
assembled Technical Support Center personnel.
- 2.3 Verify the emergency classification.
- 2.4 Verify that the Technical Support Center, Emergency  
Operations Facility and the Operations Support Center  
have been activated.

3.0 Operations Support Center Coordinator shall:

- 3.1 Notify the Interim Emergency Director when the Operations  
Support Center is activated.
- 3.2 Support the Control Room and Shift Supervision as  
necessary.

4.0 Radiation Protection Team Leader shall:

- 4.1 Notify the Emergency Director when the Emergency  
Operations Facility is activated.
- 4.2 Report progress and results of Cumulative Population  
Dose Calculations and off site radiation surveys  
to the Emergency Director, as necessary.
- 4.3 Notify the Site Emergency Coordinator of the need for  
assistance from Radiation Management Corporation.

5.0 Shift Clerk or other assigned person shall:

- 5.1 When requested, notify additional support personnel  
to report to the plant as directed by the Emergency  
Director. Refer to EP 209.
- 5.2 Notify Emergency Director or Site Emergency Coordinator  
when additional support personnel have been notified.



Document on APP EP-105-2.

6.0 I&C Technicians shall: (if not already performed as per EP-103 or EP-104)

6.1 Inform the Emergency Director when centers are activated.

6.2 Man the TSC and EOF data display (CCTV) positions as directed by the Emergency Director.

7.0 Personnel Safety Team Leader shall:

7.1 Report progress and results of on-site and plant surveys.

7.2 Radiation surveys to the Emergency Director as necessary.


APPENDIX EP 105-1  
GENERAL EMERGENCY NOTIFICATION CHECKOFF LIST


Message: This (is) (is not) a drill. This (is) (is not) a  
drill. This is Peach Bottom Atomic Power Station calling to report  
a General Emergency has been declared on Unit No. \_\_\_\_\_. Time  
and date of General Emergency classification is \_\_\_\_\_. The  
basic problem is \_\_\_\_\_.  
The plant status is (stable) (improving) (degrading) (not known).  
There (is presently) (has not been) (is potential for) (has been)  
a radioactive (airborne) (liquid) release from the plant (at a level  
below that considered a public hazard) (at a level at which protective  
action is advisable). Recommended protective actions are (none)  
\_\_\_\_\_. The affected population  
area is (none) \_\_\_\_\_. My  
name is \_\_\_\_\_. This (is) (is not) a  
drill. This (is) (is not) a drill.


Notifications:


<u>Party</u>	<u>Person</u> <u>Responding</u>	<u>Time of</u> <u>Notification</u>	<u>Communicator's</u> <u>Initials</u>
Station Superintendent	_____	_____	_____
Lead Dispatcher (Tell him to initiate call list "C")	_____	_____	_____
Pennsylvania Emergency Management Agency (Blue phone of _____)	_____	_____	_____
Maryland Civil Defense Agency (Blue phone of _____)	_____	_____	_____
York County Emergency Management Agency (Blue phone of _____)	_____	_____	_____

APPENDIX EP 105-1 (Cont'd)  
GENERAL EMERGENCY NOTIFICATION CHECKOFF LIST


Lancaster County  
Emergency Management  
Agency  
(Blue phone or  \_\_\_\_\_)

Chester County  
Emergency Management  
Agency  
(Blue phone or  \_\_\_\_\_)


Harford County Civil  
Defense Agency  
(Blue phone or  \_\_\_\_\_)

Cecil County Civil  
Defense Agency  
(Blue phone or  \_\_\_\_\_)

Pennsylvania State  
Police - York  
(1-848-6355) \_\_\_\_\_

PA BRP  
(White Phone or  \_\_\_\_\_)

NRC Operations Center\*\*  
(Red Phone) \_\_\_\_\_

PSAPS Guard  
Sergeant  \_\_\_\_\_

Time notification of parties above completed \_\_\_\_\_.

Verified By \_\_\_\_\_ Date \_\_\_\_\_  
Emergency Director

File - Sys-3-1

\* Must notify PEMA by use of commercial telephone no. on backshifts.  
(Blue phone not manned by PEMA on backshifts.)

\*\* If NRC previously notified during Alert or Site Emergency  
condition, the assigned PO communicator continuously manning  
the red phone in Control Room should handle this  
notification automatically. However, check with Control Room  
to be sure this notification is made.

## APPENDIX EP 105-2

## PERSONNEL CALL RECORD

		Disposition of Call			
Name of	Time	No		Estimated	Call
Person Called	Called	Answer	Busy	Time of Arrival	Completed By

This image shows a single page of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

APPENDIX EP 105-3  
EMERGENCY EXPOSURE LIMITS

<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-105-4  
GENERAL EMERGENCY DEESCALATION NOTIFICATION CHECK-OFF LIST

Message: This (is) (is not) a drill. This (is) (is not) a drill.

This is Peach Bottom Atomic Power Station calling to report a change in  
emergency action level. The General Emergency has been deescalated to an  
(Unusual Event) (Alert) (Site Emergency). Time and date is \_\_\_\_\_.

The basic problem is \_\_\_\_\_.

The plant status is (stable) (improving) (degrading) (not known).

There (has been) (has not been) an (airborne) (liquid) radioactive release  
from the plant. Protective actions recommended are (none)

.The affected population area is (none) \_\_\_\_\_

\_\_\_\_\_. My name is \_\_\_\_\_. This (is) (is not) a drill.

Notifications:

<u>Party</u>	<u>Person</u> <u>Responding</u>	<u>Time of</u> <u>Notification</u>	<u>Communicator's</u> <u>Initials</u>
Station Superintendent	_____	_____	_____
Load Dispatcher _____	_____	_____	_____
(Tell him to initiate call list "C")			
Pennsylvania Emergency Management Agency* (Blue phone or _____)	_____	_____	_____
Maryland Civil Defense Agency (Blue phone or _____)	_____	_____	_____
York County Emergency Management Agency (Blue phone or _____)	_____	_____	_____



APPENDIX EP-105-4 (Cont'd)  
GENERAL EMERGENCY DEESCALATION NOTIFICATION CHECK-OFF LIST

Lancaster County  
Emergency Manage-  
ment Agency  
(Blue phone or

Chester County Emer-  
gency Management  
Agency  
(Blue phone or

Harford County Civil  
Defense Agency  
(Blue phone or

Cecil County Civil  
Defense Agency  
(Blue phone or

Pennsylvania State  
Police - York

PA. BRP  
(White Phone or

NRC Operations Center\*\*  
(Red Phone)

PSAPS Guard Sergeant

Time notification of parties above completed. \_\_\_\_\_

Verified by \_\_\_\_\_ Date \_\_\_\_\_  
Emergency Director

File Sys-3-1

\* Must notify PEMA by use of commercial telephone no. on backshifts.  
(Blue phone not manned by PEMA on backshifts).

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SS - SSV

Control Rm.

Station Super.

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PHILADELPHIA ELECTRIC COMPANY

PEACH BOTTOM UNITS 2 AND 3

EMERGENCY PLAN IMPLEMENTING PROCEDURE

Page 1 of 12, Rev. 6

GHS:ETH

*AS*  
NOV 01 1993

EP-201 TECHNICAL SUPPORT CENTER (TSC) ACTIVATION

PURPOSE

To describe the instructions and actions required for the activation, manning, and operation of the Technical Support Center (TSC). The TSC is located on the third floor of Unit 1.

References:

Peach Bottom Atomic Power Station Emergency Plan

NUREG 0654 Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.

NUREG 0696 Functional Criteria for Emergency Response Facilities

S.19.1 Technical Support Center & Emergency Operations Facility Vent System

APPENDICES

EP-201-1 Equipment Activation of Technical Support Center and Emergency Operations Facility

EP-201-2 Actions of First HP to Arrive at Technical Support Center and Emergency Operations Facility

EP-201-3 Actions of First Test Engineer to Arrive at Technical Support Center and Emergency Operations Facility

EP-201-4 Technical Support Center Organization and Manning

EP-201-5 Technical Support Center Facility Layout

EP-201-6 Deleted

EP-201-7 Deleted

EP-201-8 Deleted

EP-201-9 Staff Assignment Status Board

EP-201-10 Procedure for Operation of TSC TV Monitors

EP-201-11 Deleted

EP-201-12 TSC Telephone Checkoff List

EP-201-13 TSC Habitability Guidelines

ACTION LEVEL:

Activate the TSC when an event has been classified as an alert. Site Emergency or General Emergency in accordance with EP-101, Classification of Emergencies, or at the discretion of the Emergency Director.

PRECAUTIONS:

1. Verify TSC habitability prior to activation.  
Ensure TSC remains habitable while the TSC is activated.  
Refer to Appendix EP-201-13.
2. Maintain accountability of personnel and staff reporting to the TSC throughout the incident.
3. Ensure TSC ventilation system is operating in the recirculation/HEPA mode and that air samples are taken periodically to measure potential airborne contamination. Also insure routine monitoring of Ping 2A monitor.
4. Ensure that pertinent actions and notifications are logged. An official log is located in the Technical Support Center and indicated as such.

PROCEDURE:

IMMEDIATE ACTIONS:

1.0 Emergency Director shall:

- 1.1 Assign one of the on-shift ISC technicians to perform the steps outlined in Section 2.0 of these Immediate Actions.
- 1.2 Assign an individual the duties of Communicator and direct the individual to perform the steps outlined in Section 3.0 of these Immediate Actions.
- 1.3 Direct the first HP staff member that arrives at the TSC to perform the steps outlined in Section 4.0 of these Immediate Actions.
- 1.4 Direct the first Test Engineer staff member that arrives at the TSC to perform the steps outlined in Section 5.0 of these Immediate Actions.
- 1.5 Obtain continuous status updates on plant conditions

from the Control Room and maintain a log of significant events and actions.

The log shall include at least the following:

- a. Date and Time
- b. Significant Event
- c. Significant Actions

- 1.6 Provide briefings on the emergency and pertinent plant conditions to appropriate TSC staff upon their arrival.
- 1.7 Inform the Control Room that the TSC is operational upon completion of steps outlined in Section 2.0 and 3.0 of these Immediate Actions. Announce activation of the TSC when all Team Leaders are present or in charge.
- 1.8 Ensure that the manning and operation of the TSC is in accordance with the Follow-up Actions of this procedure.

#### 2.0 On-Shift I&C Technician shall:

- 2.1 Go to the guardhouse, pick up the emergency key ring, and proceed to Unit 1 using one of the dedicated I&C vehicles parked in the Company Vehicle Area. Keys for these vehicles are in guardhouse.
- 2.2 Use attached Appendix EP-201-1 to turn on lighting, HVAC, radiation monitors, and closed circuit TV monitors in both the EOF and TSC.
- 2.3 Inform the Emergency Director when TSC/EOF equipment set-up is complete and of any equipment problems.
- 2.4 Remain at the TSC as the Data Display Operator. Man the TV camera station in the TSC and perform any needed request from the Emergency Director. Use Appendix EP-201-10 for TV monitor operation instructions.

#### 3.0 Emergency Director Communicator shall:

- 3.1 Using Appendix EP-201-12 (TSC Telephone Checkoff List), verify communications capability exists from the Technical Support Center.
- 3.2 Inform the Emergency Director when the communications capabilities have been verified or of any discrepancies.
- 3.3 Man communications lines as directed by the

Emergency Director and maintain a Communications Log containing information received from and sent to Emergency Centers and offsite agencies.

The log shall include as a minimum the following information:

- a. Date and Time (use 24 hour time notation)
- b. Messages received or sent
- c. Name of person information was received or sent to
- d. Name and initials of person making entries

- 3.4 Inform the Emergency Director promptly of all information received from site groups and offsite agencies.

4.0 First HP Staff Member shall:

- 4.1 Perform the steps outlined on Appendix EP-201-2 and report completion to the Emergency Director.

5.0 First Test Engineer shall:

- 5.1 Perform the steps outlined on Appendix EP-201-3 and, upon completion, inform the Emergency Director that TLD distribution has begun.

6.0 Personnel Safety Team Leader shall:

- 6.1 Provide necessary personnel and on-site radiation status.
- 6.2 Assign assistants as necessary to man the site Radiological Status Board.
- 6.3 Coordinate with the HP&C OSC for on-site radiation problems which develop.

FOLLOW-UP ACTIONS:

1.0 Emergency Director shall:

- 1.1 Use attached Appendix EP-201-4 and Appendix EP-201-5 to ensure that the TSC is adequately staffed.
- 1.2 Assign three individuals (test engineers or technical assistants) as Status Board Recorders:
  - a. one individual for the Plant Status Board (see Appendix EP-201-7).
  - b. one individual for the Event Chronology Status Board (see Appendix EP-201-7).

- c. one individual for the Offsite Communications Status Board (see Appendix EP-201-8) and Staff Assignment Status Board (see Appendix EP-201-9).
- 1.3 Direct the Status Board Recorders to Perform the steps outlined in Section 2.0 of these Follow-Up Actions.
- 1.4 Assign an individual (test engineer or technical assistant) to man the dedicated communication lines to the Control Room and Operations Support Center and direct the individual to perform the steps outlined in Section 3.0 of these Follow-up Actions.
- 1.5 If necessary dispatch an individual (test engineer or technical assistant) to the Control Room to transmit requested Control Room parameters and information to the TSC.
- 1.6 If necessary assign an individual (clerical staff) as a Telephone Operator to man the telephone console in the EOP and direct the individual to perform the steps outlined in section 3.0 of these follow-up actions.
- 1.7 Ensure that two individuals (instrument/control technician) are assigned as Data Display Operators to man the TV camera station in the TSC.
- 1.8 Brief the TSC staff periodically (normally every 30 minutes) on the status of the emergency and pertinent plant conditions.
- 1.9 Rely on the Personnel Safety Team Leader for status as to contaminated or injured personnel, site or local evacuations, and on-site radiological problem areas.

2.0 Status Board Recorders shall:

- 2.1 Set up the assigned status board given to you.

Format and content of the status board are given in the following appendices:

- a. Appendix EP-201-6, Plant Status Board
- b. Appendix EP-201-7, Event Chronology Status Board
- c. Appendix EP-201-8, Offsite Communications Status Board
- d. Appendix EP-201-9, Staff Assignment Status Board
- e. Appendix EP-201-11, Site Radiological Status Board



2.2 Contact the following individuals for the various status board information.

- a. Data Display Operators for plant status information
- b. Communicator to Control Room for event chronology information
- c. Emergency Director or Control Room for offsite communication information.
- d. Emergency Director for staff assignment information.
- e. Aux. OSC for site radiological status.
- f. Designated site evacuation assembly area coordinator for evacuation information.

2.3 Post appropriate information on assigned status board and maintain a log record of all status board entries.

Transmit plant status information and event chronology information to appropriate Status Board Recorders at the EOP.

2.4 Review and update the status board at least every 15 minutes and as changes in plant conditions or information warrant.

2.5 Inform the Emergency Director as significant changes in status board information are noted.

3.0 Communicators shall:

3.1 Man assigned communication lines.

3.2 Maintain a Communications Log containing information received from and sent to other emergency response facilities and other support organizations.

The log shall include as a minimum the following information:

- a. Date and time (use military time notification)
- b. Incoming/Outgoing
- c. Messages received or sent
- d. Name of person information was received from or sent to
- e. Name and initials of person making entries

- 3.3 Inform the Emergency Director promptly of all information received from or sent to members of the emergency response organization or support organizations.

APPENDIX EP-201-1 EQUIPMENT ACTIVATION OF TSC AND EOF

1. Enter Emergency Operations Facility using key B9178.
2. Go to the lighting panels located just outside the north door. On Panel P-23 turn on Breakers 2, 4, and 6. On Panel P-43 turn on Breaker 5.
3. Go to Technical Support Center door on third floor and enter the room using key PG-6.
4. Go to lighting Panel P-47 located behind the status boards next to the copying machine and turn on all breakers labeled "TSC lighting."
5. Go to the Ventilation Panel at the northwest corner of the Technical Support Center. Turn on the ventilation system using the procedure posted there.
6. Turn on the Particulate-Iodine-Noble Gas Monitor (PING) located at the northeast corner of the Technical Support Center using the procedure on the PING.
7. Turn on the 4 TV monitors and the video recorder located in center of the Technical Support Center using the procedure near the monitors. Notify the Unit 2 and 3 Control Room operators to energize the cameras and remove the lens covers.
8. Go to the 1st floor, and turn on the PING inside the entrance.
9. Turn on the 2 TV monitors located in the Emergency Operations Facility using the procedure near the monitors.
10. Return to the Technical Support Center, third floor, and man the TV camera station as directed by the Emergency Director. Inform the Emergency Director that you have energized the Technical Support Center and the Emergency Operations Facility.

APPENDIX EP-201-2 ACTIONS OF FIRST HP TO ARRIVE AT TSC AND EOF

1. Go to the First Floor by the Unit one entrance and inventory and prepare the Emergency Equipment Locker and Emergency Kits.
2. Prepare the emergency TLD's in the green Radiation Emergency Equipment boxes for use. These boxes are located in the hallway leading to the Alternate Chem. Lab. The TLD's should be inventoried and readied for use by those who enter the Unit One Emergency Centers.
3. Monitor the following radiological monitoring equipment once every 15 minutes to ensure proper operability of the equipment and habitability of the Emergency Response Facilities:
  1. T.S.C. (EP-201, Appendix 13)
    - Ping 2A
    - RML6
  2. E.O.F. (EP-203, Appendix 12)
    - RML6
  3. First Floor (EP-203, Appendix 12)
    - Ping 2A

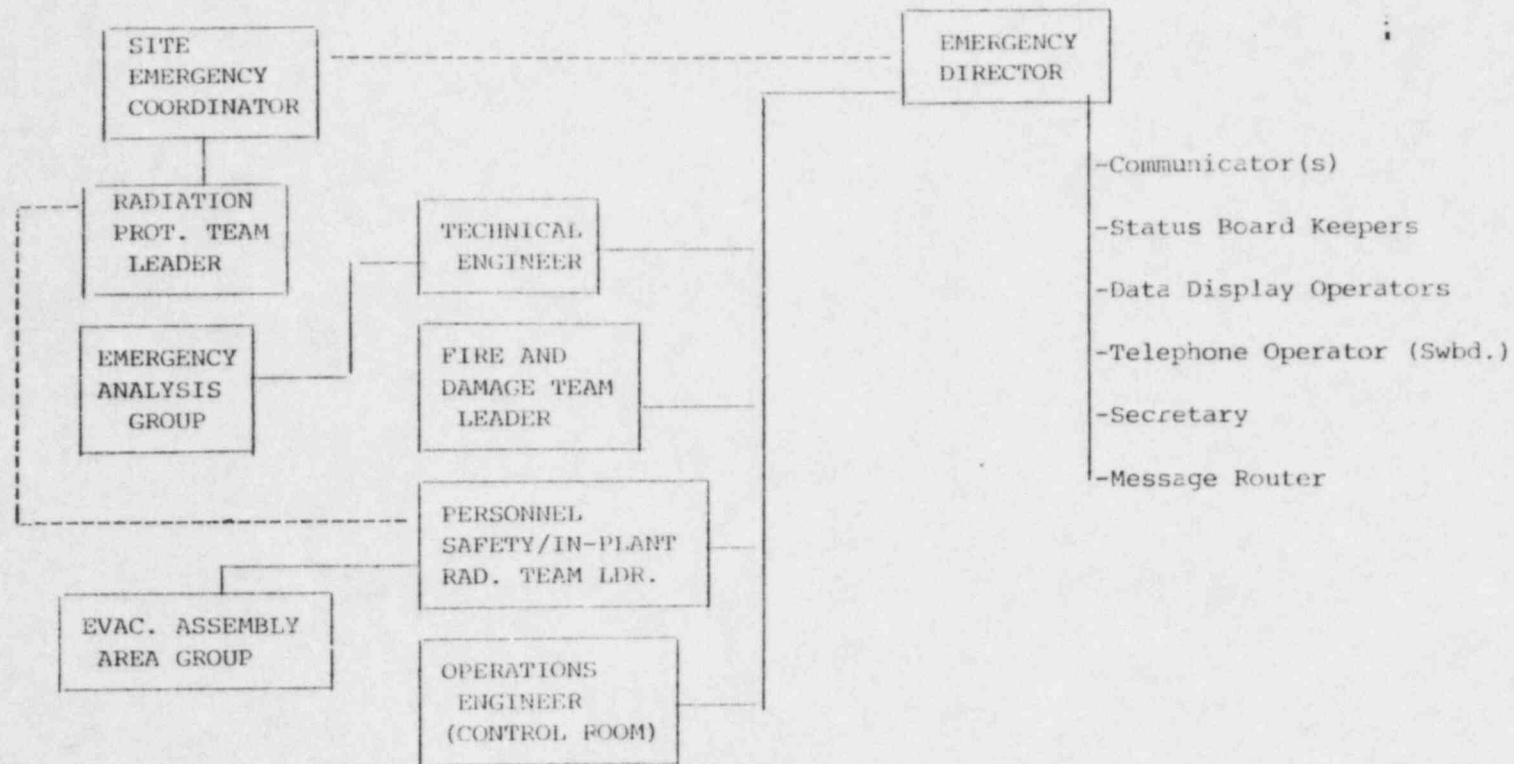
If any equipment fails or habitability of the facility is in question, notify the Radiation Protection Team Leader immediately.

APPENDIX EP-201-3 ACTIONS OF FIRST TEST ENGINEER TO ARRIVE AT TSC AND EOF

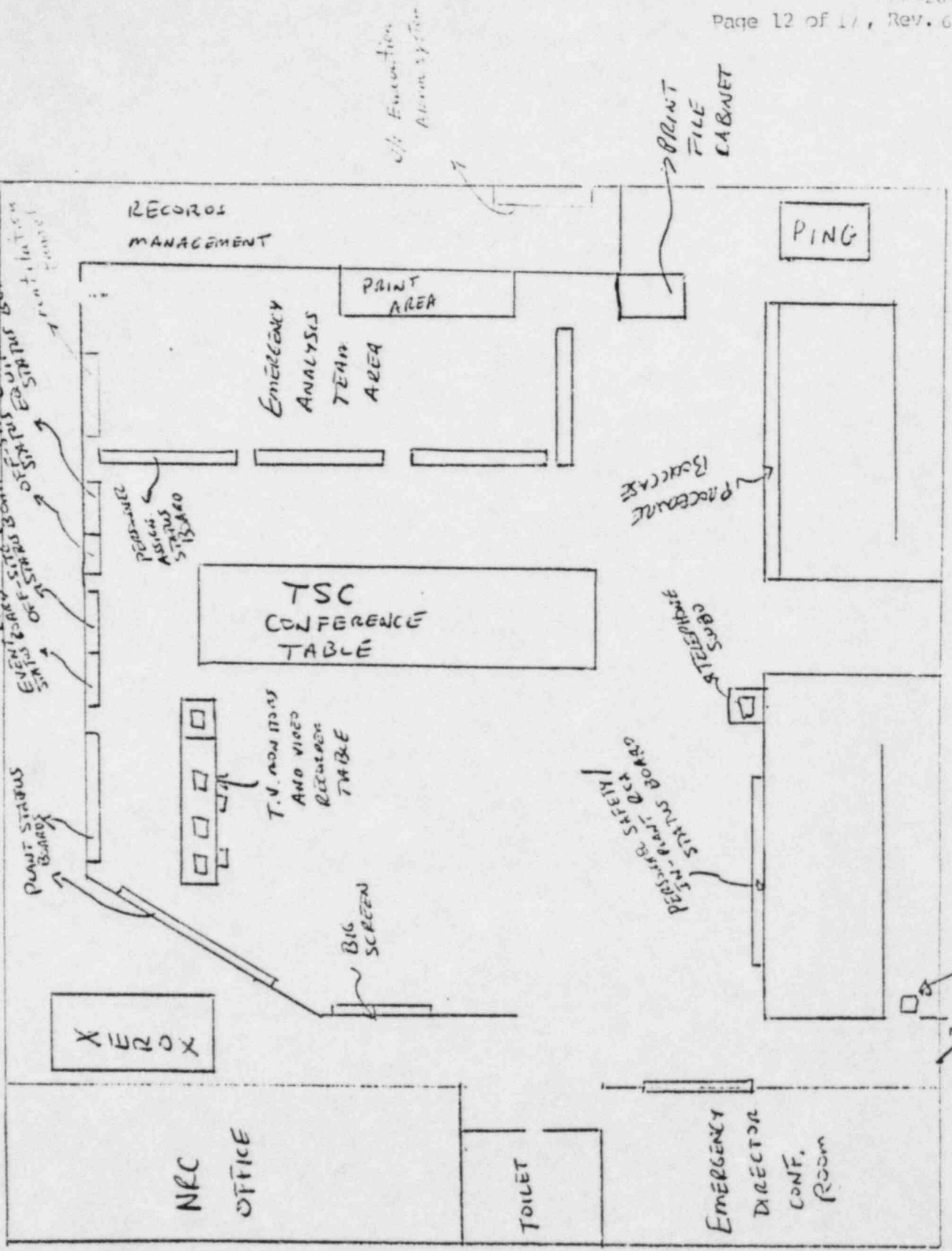
1. Go to the first floor by Unit one entrance and get emergency TLD's from the Radiation Equipment lockers. If portable frisker is not already at Unit One entrance, get it from the Emergency Operations Facility and set it up at the desk just inside the glass door.
2. Obtain boxes marked "E.O.F. Supplies" from T.S.C. supply cabinet and deliver these to the E.O.F.
3. Go to the first floor entrance of Unit One. Distribute TLD to all personnel who possess emergency response roles. Log TLD Numbers versus names. This function shall be assumed by a guard as soon as he is available.

APPENDIX EP-201-4

TECHNICAL SUPPORT CENTER ORGANIZATION AND MANNING







APPENDIX EP-201-9 STAFF ASSIGNMENT STATUS BOARD

TITLE	NAME	LOCATION
Shift Superintendent		
Shift Supervisor		
Emergency Director		
Technical Engineer		
Personnel Safety Team Leader		
Fire/Damage Team Leader		
Site Emergency Coordinator		
Health Physics/Chemistry Coordinator		
Radiation Protection Team Leader		
Dose Assessment Group Leader		
Field Survey Group Leader		
DOF Liaison		
Procedure Support Coordinator		
Planning Coordinator		
Mechanical Engineer Liaison		
Electrical Engineer Liaison		
Emergency Support Officer		

APPENDIX EP-201-10  
PROCEDURE FOR OPERATION OF TSC/EOF TV MONITORS

1.0 PURPOSE:

The following procedure defines the required steps for the operation of the Technical Support Center and Emergency Operations Facility TV monitoring of the Main Control Room.

2.0 SCOPE:

This procedure is to be followed by all personnel who use the video-monitoring system in the Control Room.

3.0 REFERENCES:

Operating instructions, controls for motorized zoom lenses. (Vicon Industries, Inc.) X85-780  
6280-E-114-5-1

4.0 RESPONSIBILITY:

The person(s) operating this equipment shall be responsible for safe operation.

5.0 PREREQUISITES:

Person(s) operating this equipment should have a knowledge of its operation in addition to reviewing the operating instructions, and should be very familiar with the layout of instruments in the control room.

6.0 PROCEDURE:

- 6.1 In the Emergency Operations Facility (2nd floor of Unit 1) turn on both controllers, as they act as master controllers for the controllers on the third floor.
- 6.2 In the Technical Support Center (3rd floor of Unit 1), turn on the four TV monitors, and their associated controllers.
- 6.3 Push "close" button on iris a few short times to ensure proper lighting.
- 6.4 Joystick operates camera movement.

NOTE: Pan and tilt speed are a function of how far the joystick is moved away from the center "rest" position.

- 6.5 Motor speed is determined by knob (on/off).

NOTE: The motor speed not on the lens controller will have to be optimized for each individual camera (for focus and zoom it will be approximately mid-pot). To get iris control, the speed pot must be fully clockwise.

NOTE 1: Fuse for all cameras is in the TRW panel in the control room, inside the right door on the left side.

NOTE 2: Control Room TV camera switches are located at the base of each TV camera. Switch is labeled "ACPower Feed On/Off".

- 6.6 Request Chief Operator to turn on the extra lights in the Control Room.  
(Panel 46L and 66L for Unit 2 and 3 respectively.)

APPENDIX EP-201-12  
TSC PHONE C.O.L.

Test Ring Down Phones:

Aux. OSC (Wall)	_____
HOECC 7th Floor	_____
Control Room Data Taker (Wall)	_____
Control Room (Table)	_____
Emergency Operations Facility	_____
Load Dispatcher	_____
Control Room (Wall)	_____
NRC Red Phone	_____
White - Bureau of Rad. Protection	_____
Blue - PA, MD, and 5 Risk Counties	_____

Test Dial Phones for Dial Tone:

4625	Computer Terminal	_____
4626	Emergency Analysis Team Wall Phone	_____
4627	Fire/Damage Team Leader	_____
4628	Emerg Analysis Team/Telecopier	_____
4629	Technical Engineer	_____
4630	Emerg Analysis Team	_____
4635	Emerg Director	_____
4631	Emerg Director's Table	_____
4632	Personnel Safety Team Leader	_____
4633	TSC Status Board	_____
4634	Data Display Operators	_____
4321	Data Display Operators	_____
4636	NRC Office	_____
4692	Technical Engineer	_____

NOTE: Inform the Personnel Safety Team Leader to test the appropriate evacuation assembly ring down phone when evacuation assembly area (PUB or North Sub Station) is manned.

	RM 16	Ping 2A
Gama	<p>120 mR/hr 24 hour stay time prior to reaching quarterly limit of 3000 mR</p> <p>200 mR/hr off-scale. Consider initiation of periodic surveys</p>	<p>Low Alarm 120 mR/hr 24 hr. stay time prior to reaching quarterly limit of 3000 mR.</p> <p>High Alarm 275 mR/hr 8 hr. stay time prior to reaching quarterly limit of 3000 mR. Emergency Director should consider evacuation and request the Radiation Protection Team Leader to initiate surveys and utilize Ping 2A to monitor integrated dose.</p>
Xe 133	N/A	<p>Low Alarm 50% of high alarm (<math>2 \times 10^{-4}</math> uCi/cc) 24 hr stay time</p> <p>High Alarm 10% of maximum value (<math>5 \times 10^{-4}</math> uCi/cc) 8 hr stay time</p> <p>Emergency Director should consider evacuation and request Radiation Protection Team Leader to initiate surveys and utilize Ping 2A to monitor integrated dose. Note: MPC occupational exposure <math>1 \times 10^{-5}</math> uCi/cc</p>
Beta Particulate	N/A	<p>Low Alarm 50% of high alarm (<math>5 \times 10^{-9}</math> uCi/cc) 24 hr stay time</p> <p>High Alarm 10% of maximum value (<math>1 \times 10^{-8}</math> uCi/cc) 8 hr stay time</p> <p>Emergency Director should consider evacuation and request Radiation Protection Team Leader to initiate surveys and utilize Ping 2A to monitor integrated dose. Note: MPC occupational exposure <math>3 \times 10^{-10}</math> uCi/cc</p>
I 131	N/A	<p>Low Alarm 50% of high alarm (<math>2 \times 10^{-7}</math> uCi/cc) 24 hr stay time</p> <p>High Alarm 10% of maximum value (<math>4 \times 10^{-7}</math> uCi/cc) 8 hr stay time</p> <p>Emergency Director should consider evacuation and request Radiation Protection Team Leader to initiate surveys and utilize Ping 2A to monitor integrated dose. Note: MPC occupational exposure <math>9 \times 10^{-9}</math> uCi/cc.</p>



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PEACH BOTTOM UNITS 2 AND 3

EMERGENCY PLAN IMPLEMENTING PROCEDURE

REV 01 1983

## EP-203 EMERGENCY OPERATIONS FACILITY (EOF) ACTIVATION

### PURPOSE

To describe actions required for the activation, manning, and operation of the Emergency Operations Facility (EOF). The EOF is located on the second floor of Unit One.

### 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. NUREG 0696 Functional Criteria for Emergency Response Facilities

### APPENDICES

- EP-203-1 Emergency Operations Facility Organization and Manning
- EP-203-2 Emergency Operations Facility Layout
- EP-203-3 Staff Assignment Status Board
- EP-203-4 Procedure for Operation of Emergency Operations Facility TV monitors
- EP-203-5 Activation Procedure for PING in Emergency Operations Facility
- EP-203-6 EOF Habitability Guidelines

### ACTION LEVEL

Activate the EOF when an event has been classified as a Site Emergency or General Emergency in accordance with EP-101, Classification of Emergencies, or at the discretion of the Site Emergency Coordinator.

### PRECAUTIONS

1. Verify EOF habitability prior to activation.  
Ensure the EOF remains habitable while the EOF is activated. Refer to EP-203-12.
2. Maintain accounting of personnel reporting to the EOF throughout the incident.
3. Ensure EOF ventilation system is operating and in the recirculation/HEPA mode that air samples are periodically

taken to measure potential airborne contamination. Also  
Ping 2A on first floor is routinely monitored.

4. Ensure that pertinent actions and notifications are logged.

#### PROCEDURE

- 1.0 Designated Senior Engineer acting as the Interim Site Emergency Coordinator shall perform the following actions until relieved by the Site Emergency Coordinator or designated alternate.
  - 1.1 Assign at least one individual (Test Engineer, Technical Assistant, or Junior Technical Assistant) the duties of communicator and direct the individual to perform the steps outlined in section 2.0 of these immediate actions.
  - 1.2 Obtain two-way radios for the radiation survey groups. Radios are available in Communications Equipment Room.
  - 1.3 Obtain continuous status updates on plant conditions from the Control Room or Technical Support Center and maintain a log of significant events and actions.
  - 1.4 Ensure that the manning and operation of the Emergency Operations Facility is in accordance with the follow-up actions of this procedure.
  - 1.5 Provide briefings on the emergency and pertinent plant conditions to the Site Emergency Coordinator and appropriate EOF staff upon their arrival.
  - 1.6 Inform the Control Room and Technical Support Center when the Emergency Operations Facility has been activated.  
(All Team Leaders in charge or present)
- 2.0 Site Emergency Coordinator Communicator shall:
  - 2.1 Verify communications capability by completing the telephone C.O.L. for EOF (Appendix EP-203-12).
  - 2.2 Inform the Site Emergency Coordinator or Interim Site Emergency Coordinator when communication capabilities have been verified or of any discrepancies.
  - 2.3 Man communications lines as assigned and maintain a communications log containing information received from and sent to other facilities and organizations.

#### FOLLOW-UP ACTIONS

- 1.0 Site Emergency Coordinator or Interim Site Emergency Coordinator shall:

- 1.1 Use attached Appendix EP-203-1 and Appendix EP-203-2 to ensure that personnel required to man the EOF are in place.
- 1.2 Assign an individual (test engineer or technical assistant) as a Status Board Recorder for the Plant Status Board (see Appendix EP-203-3), and the Event Chronology Status Board (see Appendix EP-203-5). Direct the individual to perform the steps outlined in Section 4.0 of these Follow-Up Actions.
- 1.3 Assign an individual (test engineer or technical assistant) as a Status Board Recorder for the Headquarters Support Requests Status Board (see Appendix EP-203-6) and Offsite Communications Status Board (see Appendix EP-203-7) and direct the individual to perform the steps outlined in Section 4.0 of these Follow-up Actions.
- 1.4 Assign an individual (instrument and control technician) as a Data Display Operator to man the TV camera station in the EOF. This data display operator should refer to Appendix EDP-203-10 for TV monitor operation.
- 1.5 If necessary, assign an individual (clerical staff) as a runner to route information in the EOF and other appropriate facilities.
- 1.6 If necessary, assign an individual (clerical staff) to perform, any typing and clerical work.
- 1.7 If necessary, assign two individuals (clerical staff) as telephone operators to man communications equipment in the EOF Communications Equipment Room.
- 1.8 Assign at least one individual (test engineer) as a communicator for the Site Emergency Coordinator to perform the actions specified in Section 5.0 of these Follow-Up Actions.
- 1.9 Upon completion of pertinent steps outlined in these follow-up actions, inform the Control Room and the Technical Support Center that the Emergency Operations Facility is operational and manned.
- 1.10 Brief the EOF staff periodically on the status of the emergency and pertinent plant conditions.
- 1.11 Direct the Communicator for the Site Emergency Coordinator to maintain a log of significant events and actions.

The above log shall include as a minimum the following information:

  - a. Date and Time
  - b. Significant Event
  - c. Significant Actions Taken
- 1.12 Direct the Communicator for the Site Emergency Coordinator to Transmit all status board information to the Headquarters Emergency

Support Center Status Board Recorder.

2.0 Radiation Protection Team Leader shall:

- 2.1 Assign an individual (HP Technician) as a Field Survey Group Radio Communicator to maintain radio contact with Field Survey Teams.
- 2.2 Assign an individual (HP technician) as a Status Board Recorder for the Field Monitoring Data Status Board (see Appendix EP-203-8) and direct the individual to perform the steps outlined in Section 4.0 of these Follow-up Actions.
- 2.3 Assign an individual (HP technician) as Telephone Communicator to man appropriate communication lines assigned to the Radiation Protection Team Leader and perform the steps outlined in Section 5.0 of these Follow-up Actions.

3.0 Dose Assessment Group Leader shall:

- 3.1 Assign two individuals to perform dose projection calculations at the EOF.
- 3.2 Assign an individual (HP technician) as a Status Board Recorder for the Dose Assessment Data Status Board (see Appendix EP-203-9) and direct the individual to perform the steps listed in Section 4.0 of these follow-up actions.

4.0 Status Board Recorders shall:

4.1 Set up the assigned status board.

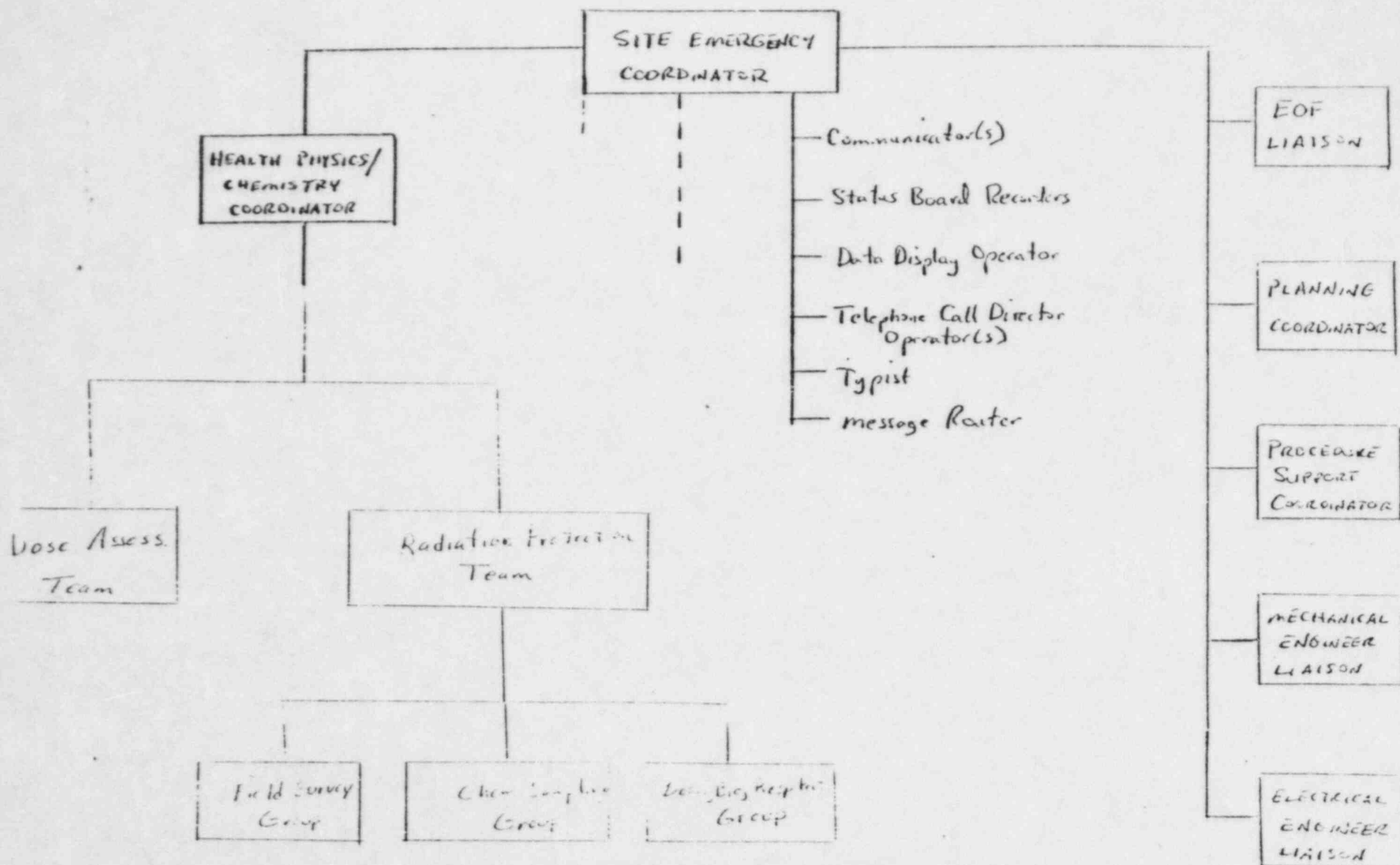
Format and content of the status boards are given in the following appendices:

- a. Appendix EP-203-3, Plant Status Board
- b. Appendix EP-203-4, Event Chronology Status Board
- c. Appendix EP-203-5, Staff Assignment Status Board
- d. Appendix EP-203-6, Headquarters Support Requests Status Board
- e. Appendix EP-203-7, Offsite Communications Status Board
- f. Appendix EP-203-8, Field Monitoring Data Status Board
- g. Appendix EP-203-9, Dose Assessment Data Status Board

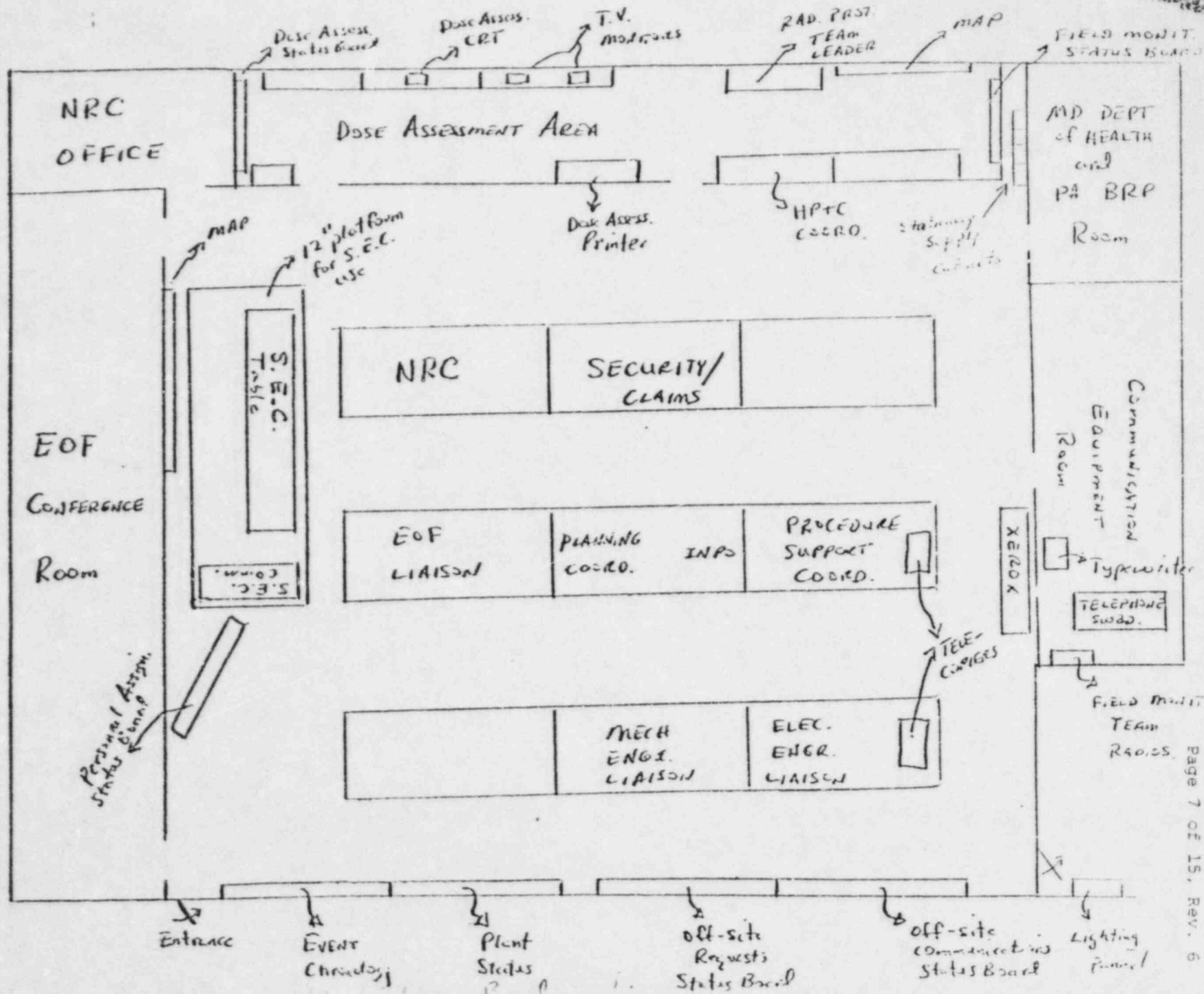
4.2 Contact the following individuals for the various status board information.

- a. TSC Plant Status Board Recorder for plant status information.
- b. TSC Event Chronology Status Board Recorder for event chronology information.
- c. Site Emergency Coordinator for staff assignment information and headquarters support requests.

- d. Emergency Director, Site Emergency Coordinator, or Control Room for offsite communication information.
  - e. Field Survey Group Radio Communicator for field monitoring data.
  - f. Dose Assessment Group Leader for dose assessment data.
- 4.3 Post appropriate information on assigned status board and maintain a log of all status board entries.
- 4.4 Review and update the status board every 15 minutes and as changes in plant conditions or information warrant.
- 4.5 Inform the appropriate coordinator, team leader or group leader of significant changes in status board information.
- 5.0 Communicators shall:
- 5.1 Man communication lines assigned.
  - 5.2 Maintain a Communications Log containing information received from and sent to other emergency response facilities and other support organizations.
    - a. Data and time (use 24 hour time notation)
    - b. Messages received or sent
    - c. Name of person information was received from or sent to
    - d. Initials of person making entries
  - 5.3 Inform the appropriate coordinator, team leader or group leader promptly of information received from or sent to members of the emergency response organization or support organizations.







APPENDIX EP-203-3 STAFF ASSIGNMENT STATUS BOARD

TITLE	NAME	LOCATION
Shift Superintendent		
Shift Supervisor		
Emergency Director		
Technical Engineer		
Fire/Damage Team Ldr.		
Personnel Safety Team Ldr.		
Site Emerg. Coord.		
Health Physics/Chem. Coord.		
Radiation Protection Team Ldr.		
Dose Assessment Group Leader		
Field Survey Group Leader		
EOF Liaison		
Procedure Support Coordinator		
Planning Coordinator		
Mech. Engr. Liaison		
Elec. Engr. Liaison		
Emergency Support Officer		

APPENDIX EP-203-3

PROCEDURE FOR OPERATION OF TSC/EOF TV MONITORS

1.0 PURPOSE:

The following procedure defines the required steps for the operation of the Technical Support Center and Emergency Operations Facility TV monitoring of the Main Control Room.

2.0 SCOPE:

This procedure is to be followed by all personnel who use the video-monitoring system in the Control Room.

3.0 REFERENCES:

Operating instructions, controls for motorized zoom lenses. (Vicon Industries, Inc.) X85-780 6280-E-114-5-1

4.0 RESPONSIBILITY:

The person(s) operating this equipment shall be responsible for safe operation.

5.0 PREREQUISITES:

Person(s) operating this equipment should have a knowledge of its operation in addition to reviewing the operating instructions, and should be very familiar with the layout of instruments in the Control Room.

6.0 PROCEDURE:

6.1 On the second floor of the Unit 1 building, turn on both controllers, as they act as master controllers for the controllers on the third floor.

6.2 On the third floor of the Unit 1 building, turn on the four TV Monitors and their associated controllers.

6.3 Push 'close' button on iris a few short times to ensure proper lighting.

6.4 Joystick operates camera movement.

NOTE: Pan and tilt speed are a function of how far the joystick is moved away from the center "rest" position.

6.5 Motor speed is determined by knob (ON/OFF).

NOTE: The motor speed not on the lens controller will have to be optimized for each individual camera (for focus and zoom it will be approximately mid-pot). To get iris control, the speed pot must be fully clockwise.

NOTE 1: Fuse for all cameras is in the TRW panel in the control room, inside the right door on the left side.

NOTE 2: Control room TV camera switches are located at the base of each TV camera. Switch is labeled "AC Power Feed ON/OFF."

APPENDIX EP-203-4

ACTIVATION OF THE EBERLINE PING-2A IN THE EMERGENCY OPERATIONS FACILITY

1. OPEN FRONT PANEL BY TURNING BLACK KNOBS COUNTERCLOCKWISE AND PULLING OUT.
2. TURN "KEYBOARD" KEY ON (CLOCKWISE).
3. ACTIVATE PUMP BY PUSHING THE FOLLOWING SEQUENCE ON THE KEYBOARD:

PUMP, ON/+, ENTER

WHEN THE PUMP STARTS, CHECK PAPER PRINTOUT TO ENSURE THAT A STATUS CONDITION OF "NORMAL" FOR CHANNELS 1 THRU 5 EXISTS, IF THE PRINTOUT DOES NOT SHOW "NORMAL" AND TIME PERMITS, FOLLOW STEP B OF HPO/CO-140.

IF THE PUMP FAILS TO START, GO TO THE GRAY CABINET IN THE E.O.F. AND OBTAIN AN AC AIR SAMPLER AND PLUG IT INTO THE WALL RECEPTACLE BY THE PING-2A.

## APPENDIX EP-203-5

ECF PHONE C.O.L.

Test Ring Down Phones:

Muddy Run News Center  
HOECC - 7th Floor  
TSC  
TSC - Control Room

Test Dial Phones for Dial Tone:

4205	S.E.C.
4658	S.E.C. COMMUNICATOR
4662	NRC OFFICE
4656	DOSE ASSESSMENT GROUP LEADER
4644	DOSE ASSESSMENT GROUP
4643	RAD PROTECTION TEAM LEADER
4327	RAD PROTECTION TEAM
4646	HP&C COORDINATOR
4295	FIELD DATA MONITORING
4655	PEMA/BRP/MCD OFFICE - WALL PHONE
4653	EOF TELESCOPIER
4642	ELECT. ENG. LIAISON
4641	MECH. ENG. LIAISON
4210	PROCEDURE SUPPORT COORDINATOR
4650	INPO
4651	PLANNING COORDINATOR
4652	EOF LIAISON
4648	3RD TABLE
4649	3RD TABLE
4640	PEMA/BRP/MCO OFFICE
4647	3RD TABLE



4638	PLANT STATUS-EVENT CHRONOLOGY BOARD	_____
4640	STATES	_____
4645	DOSE ASSESSMENT	_____
4654	PA. BUR. OF RAD PROTECTION	_____
4657	CONFERENCE ROOM	_____
4656	S.E.C. WALL PHONE	_____
4693	TELECOPIER	_____

Ring Down - DO NOT TEST:

NRC RED PHONE  
BLUE - MD. & 5 COUNTIES  
WHITE - PA. BUR. OF RAD PROTECTION  
YELLOW - MD. & 2 COUNTIES  
GREEN - MD. DEPT. OF HEALTH AND PA. BRP.

	RM-16	Ping 2A
Gamma	<p>120 mR/hr 24 hour stay time prior to reaching quarterly limit of 3000 mR</p> <p>200 mR/hr off-scale. Consider initiation of periodic surveys.</p>	<p>Low Alarm 120 mR/hr 24 hour stay time prior to reaching a quarterly limit of 3000 mR.</p> <p>High Alarm 375 mR/hr 8 hour stay time prior to reaching quarterly limit of 3000 mR.</p> <p>Site Emergency Coordinator should order evacuation of E.O.F.</p>
Xe	N/A	<p>Low Alarm 50% of high alarm (<math>2 \times 10^{-4}</math> uCi/cc) 24 hour stay time</p> <p>High Alarm 10% of maximum value (<math>5 \times 10^{-4}</math> uCi/cc) 8 hour stay time</p> <p>Site Emergency Coordinator should order evacuation of E.O.F.</p> <p>Note: MPC occupational exposure <math>1 \times 10^{-5}</math> uCi/cc</p>
Beta Particulate	N/A	<p>Low Alarm 50% of high alarm (<math>5 \times 10^{-9}</math> uCi/cc) 24 hour stay time</p> <p>High Alarm 10% of maximum value (<math>1 \times 10^{-8}</math> uCi/cc) 8 hour stay time</p> <p>Site Emergency Coordinator should order evacuation of E.O.F.</p> <p>Note: MPC occupational exposure <math>3 \times 10^{-10}</math> uCi/cc</p>
I 131	N/A	<p>Low Alarm 50% of high alarm (<math>2 \times 10^{-7}</math> uCi/cc) 24 hour stay time</p> <p>High Alarm 10% of maximum value (<math>4 \times 10^{-7}</math> uCi/cc) 8 hour stay time</p> <p>Site Emergency Coordinator should order evacuation of E.O.F.</p> <p>Note: MPC occupational exposure <math>9 \times 10^{-9}</math> uCi/cc</p>

00164800

DATE:

RELEASE POINT:

EST. RELEASE 2-27.

POTENTIAL RELEVANCE TO SOURCE TERM STUDIES

EST 1911

EST. RELEASE RATE:

HIGHEST OFF SITE  
DOSE RATE :

IODINE

NOBLE GAS

TIME

Wind Direction:

1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 26

WIND SPEED (MPH)

Dose Rate (m2/hr)

INTEGRATED JSC (2)

$\text{DOSE} = 2 \cdot T \cdot Z \cdot n \cdot K (K)$

Dose in Trb m2 (2)

Dose Rate (MAR/HR)

INTEGRATED DOSE ! 2)

$\text{Dose} \propto T_{1/2}^2 \ln^2(2)$

DOSE IN  $\text{r} \cdot \text{b} \cdot \text{m}^2 (\text{R})$

Dose Rate (mR/hr)

INTEGRATED DOSE (R)

$\cos \in \omega_{r,2} \omega_{r,2}(r)$

Dose in Trb ml (i)

DOSE RATE (ML/Hr)

INTEGRATED DOSE (3)

DOSE in  $\text{rad} \cdot \text{hr}^{-1}$

Dose in Feb 22 (2)

DOSE RATE (MG/KG)

INTEGRATE DOSE (2)

Case in T.2 N2 (2)

DOSE IN  $\text{mg kg}^{-1} \text{d}^{-1}$

Dose Rate (cGy/hr)

INTEGRATED DOSE (R)

Page 12 For 12 (2)

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Control Rm. PEACH BOTTOM UNITS 2 & 3

Station Super.

Office

EP-207E  
Page 1 of 11, Rev. 2  
GHC:ldh

PEACH BOTTOM UNIT EVACUATION CONTROL PROCEDURE

PURPOSE:

To establish vehicle and personnel monitoring procedures during a Site Evacuation when possible contamination control problems may be present.

REFERENCES:

1. Peach Bottom Atomic Power Station Emergency Plan
  - a) Section 5.2.1.5.7.3 Personnel Safety Team
2. Health Physics Operating/Chemistry Operating Procedures
  - a) HPO/CO-5 Selection and Use of AntiContamination Clothing
  - b) HPO/CO-8 Decontamination of Tools and Equipment
  - c) HPO/CO-63 Field Use of the Eberline Contamination Monitor Model RM-14
  - d) HPO/CO-100 Health Physics Guides Used in the Control of Exposure to Radioactive Material

APPENDIX:

- EP-207E-1 North Substation Layout
- EP-207E-2 President's Utility Building (PUB) Layout
- EP-207E-3 Delta Service Building Layout
- EP-207E-4 Vehicle Survey Registration Form
- EP-207E-5 Uncontaminated Vehicle Registration Form

ACTION LEVEL:

Whenever a Site Evacuation is declared and vehicle contamination is suspected, the Evacuation Assembly Group will be dispatched to one of the three following locations (listed in order of preference) North Substation, President's Utility Building, or Delta Service

Building; as deemed necessary by the Emergency Director upon the recommendation of a Site Evacuation.

PROCEDURES:

1. Evacuation shall be done in an organized and controlled manner.
2. Evacuees will be instructed during announcements of the Site Evacuation by the Emergency Director to proceed to one of the evacuation control areas, park their vehicles as directed, and stay with their vehicles until instructed otherwise by a member of the Evacuation Assembly Group.
3. Evacuees may be allowed to proceed provided that contamination levels are found to be less than 100 cpm gross beta-gamma above background on the occupants. Personnel are not required to be detained any further unless the Emergency Director deems necessary.
4. If a release has occurred, designate the routes to be taken after vehicles are allowed to leave the evacuation control area to ensure they do not travel through the plume path.
5. Caution should be used during the frisking process to ensure the probe of the frisking device is not contaminated due to improper frisking techniques.
6. Caution should be used to ensure cross contamination does not occur should a vehicle or evacuee be found contaminated.
7. The Evacuation Assembly Group Members shall consist of those designated personnel required by the Personnel Safety Team Leader.
8. Minimize the use of water when decontaminating vehicles, use maxlin swipes as much as practicable.
9. Each of the predesignated evacuation control areas contain a Decontamination Control Kit consisting of the following materials: 10 pairs of anti-c clothing, lighting equipment, cloth swipes, large area showers, and traffic flow signs indicating clean area parking, contaminated area parking, vehicle survey area, and signs directing personnel to these areas. This kit is located at the North Substation and will contain enough material to decontaminate at least 25 vehicles. Additional material can be obtained from the plant (if accessible) or outside support agencies or other utilities.

IMMEDIATE ACTIONS:

1.0 Personnel Safety Team Leader shall:

- 1.1 designate necessary member of personnel to form a Vehicle Evacuation Assembly Group (some of these people should be EF qualified personnel to ensure that personnel and vehicles are clean.) Appoint the most qualified individual as the team leader.

2.0 Evacuation Assembly Group Leader shall:

- 2.1 Assign the following tasks and specific duties to the assembled personnel:

- a) One individual to direct traffic at the evacuation control area.
- b) Two individuals to perform surveys of evacuee vehicles and occupants.
- c) Three individuals to set up an area for contaminated vehicles and establish a controlled area to frisk possible contaminated individuals leaving this area. (See attached appendices for area chosen)

- 2.2 Direct team members to obtain the following equipment from the available sources:

- a) Four PRM-6 portable friskers or equivalent capable of battery operation in the field which have been properly calibrated, source checked, and battery checked.
- b) One PAC48 survey instrument or equivalent.
- c) Four RO-2 survey meters or equivalent.
- d) Six orange vests (located at designated assembly area).
- e) Ten full sets of Anti-c clothing (Stocked at North warehouse).
- f) Keys for the designated area from the security building.

- 2.3 Have each team member report to the evacuation control area. (Personal vehicles will be used.) Orange vests are available at control area for identification of team members.

- 2.4 Upon arrival, establish communications with the Personnel Safety Team Leader.

- 2.5 Organize functions at the evacuation control area and set up the areas for contaminated parking, clean parking, vehicle surveying and post the applicable traffic flow signs directing personnel to these different areas.



- 2.6 Ensure proper frisking of vehicles and evacuees is being performed at all times and documentation of all surveys is being recorded on the Vehicle Survey Registration Forms.
- 2.7 Inform the Personnel Safety Team Leader when vehicles or evacuees are found to be contaminated including the levels and extent of contamination.
- 2.8 Using current HPO/CO and HP procedures, determine from the level and extent of contamination, the process and technique by which personnel decontamination will be performed.
- 2.9 Inform the Personnel Safety Team Leader upon survey completion of all vehicles and evacuees.
- 3.0 Personnel Safety Team member designated as traffic controller:
  - 3.1 Dependent upon the layout of the evacuation control area, set up the traffic control patterns in accordance with the attached Appendices EP-207E-1, EP-207E-2, and EP-207E-3 for the area specified.
  - 3.2 Direct evacuees to park in an orderly fashion and await further directions until the area is set up for monitoring operations.
  - 3.3 Organize traffic control of vehicles with the Evacuation Assembly Area Group Leader. Consider the following factors:
    - a) Posting of contaminated and clean parking areas.
    - b) Organizing of vehicles prior to frisking.
    - c) Routes to be taken by vehicles to contaminated or clean parking areas upon completion of vehicle surveys.
    - d) Organizing parking of vehicles in the different areas.
- 4.0 Personnel Safety Team Members designated as vehicle and evacuee monitors:
  - 4.1 Dress in appropriate anti-c clothing and obtain two PRM-6 friskers or equivalent. (Anti-c requirements at discretion of the Evacuation Assembly Group Leader)
  - 4.2 Direct vehicle to the vehicle survey area and have engine shut-off and hood raised.
  - 4.3 Log in vehicle on Vehicle Survey Registration Form.
  - 4.4 Survey vehicle to determinate contamination levels.

- 4.5 Any area found to be greater than 1000 dpm/100 cm<sup>2</sup> gross beta-gamma above background, or any detectable alpha will be reported to the Evacuation Assembly Group Leader. The report will define the location and maximum reading of the contamination.
- 4.6 Complete and record all information for each CONTAMINATED vehicle on a Contaminated Vehicle Registration Form, Appendix EP-207E-4. (one form for each contaminated vehicle).  
List all CLEAN vehicles on the Clean Vehicle Registration Form, Appendix EP-207E-5.
- 4.7 Vehicles found contaminated will be directed to park in the contaminated vehicle parking area or decontaminated on the spot.
- 4.8 Instructions to be given to driver and occupants of contaminated vehicles:
  - a) Follow the posted traffic signs to the contaminated parking area.
  - b) Leave keys in the ignition.
  - c) Decontamination will commence as soon as possible, with regards to the amount of contamination on the vehicle and the amount of vehicles to be surveyed.
  - d) Do not brush against other vehicles in the contaminated parking area to prevent possible or further contamination.
  - e) Follow the directions of the monitoring personnel after exiting the vehicle.
- 4.9 Vehicles found to be uncontaminated will have the occupants step out of the vehicle and will then perform a whole body frisk of the individual. If occupants are found to be contaminated greater than 100 cpm gross beta-gamma above background they will be directed to follow the same procedure as delineated in the previous step 4.7 and 4.8.
- 4.10 Instructions to be given to driver whose vehicle and occupants are found uncontaminated:
  - 4.10.1 If the driver is designated for an emergency team, follow posted traffic signs to the clean parking area or proceed to emergency team designated assembly area.
  - 4.10.2 If the driver has no emergency response duties, he may be allowed to leave the area, but shall be advised to the direction of plume track (if applicable).

5.0 Personnel Safety Team members designated as personnel monitors:

- 5.1 Coordinate with the Evacuation Assembly Group Leader as to the area needed to be roped off for contaminated vehicle parking and necessary signs to be posted.
- 5.2 Establish an exit area in which personnel leaving the parking area may be monitored for possible contamination.
- 5.3 Inform personnel who have parked vehicles in the contaminated parking area to follow directions given by Personnel Monitors.
- 5.4 Personnel found to be contaminated shall be reported to the Evacuation Assembly Group Leader.

(NOTE: The Evacuation Assembly Group Leader will determine the technique and process in which these personnel will be decontaminated using established personnel decontamination procedures and techniques contained in current HPO/CO procedures.)

- 5.5 Periodically survey the egress step off area for contamination.
- 5.6 Upon completion of all personnel monitoring, inform the Evacuation Assembly Group Leader.
- 5.7 Decontaminate the step off area if necessary and dispose of all radioactive waste appropriately.

# North Substation

EP-207-1

outside  
Faucet (on/off VALVE  
INSIDE)

250' Hose

Fence

CONTAMINATED  
PARKING

Gate

VEHICLE  
DECON  
AREA

EXIT

Gate

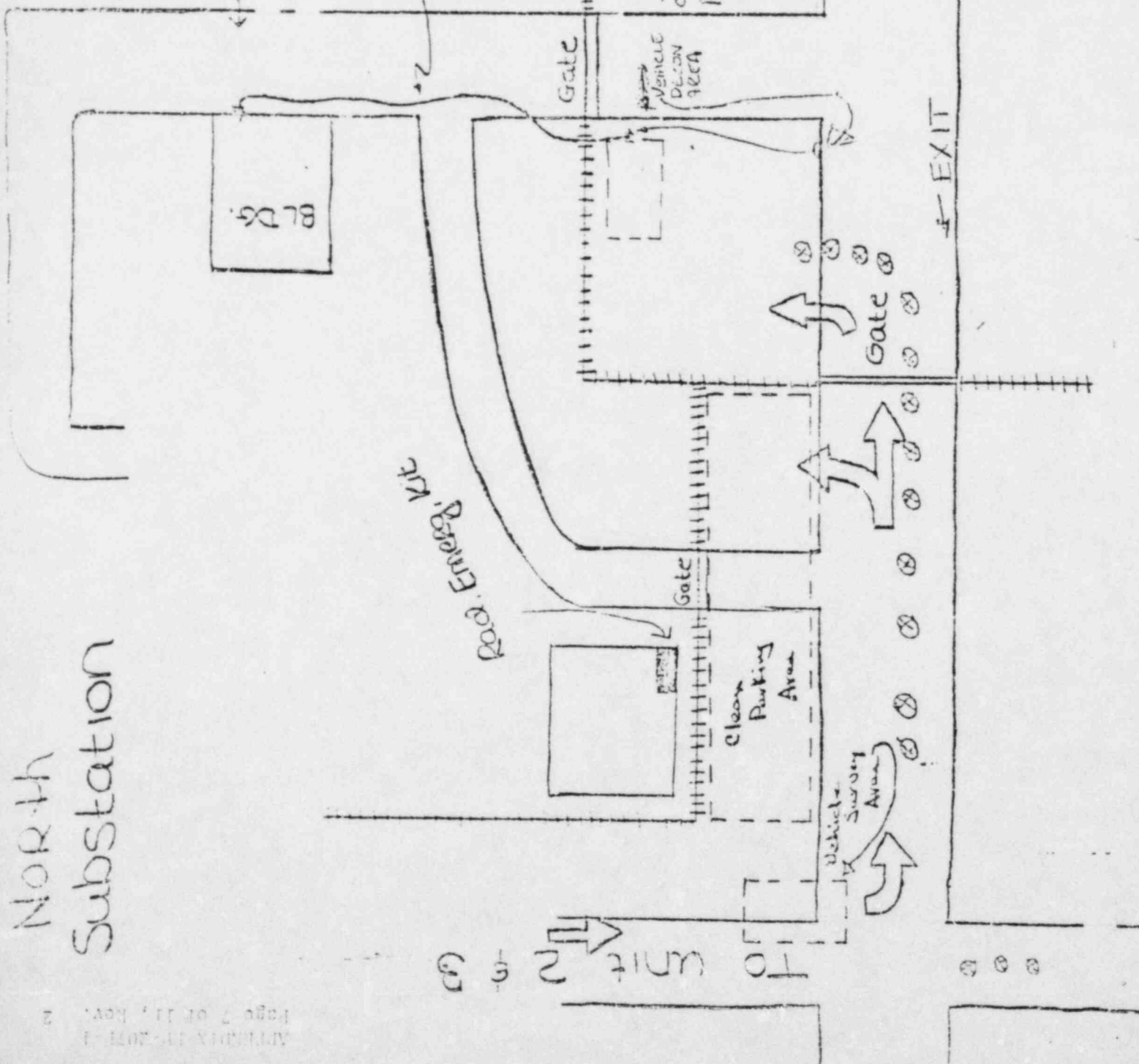
Gate

Clean  
Parking  
Area

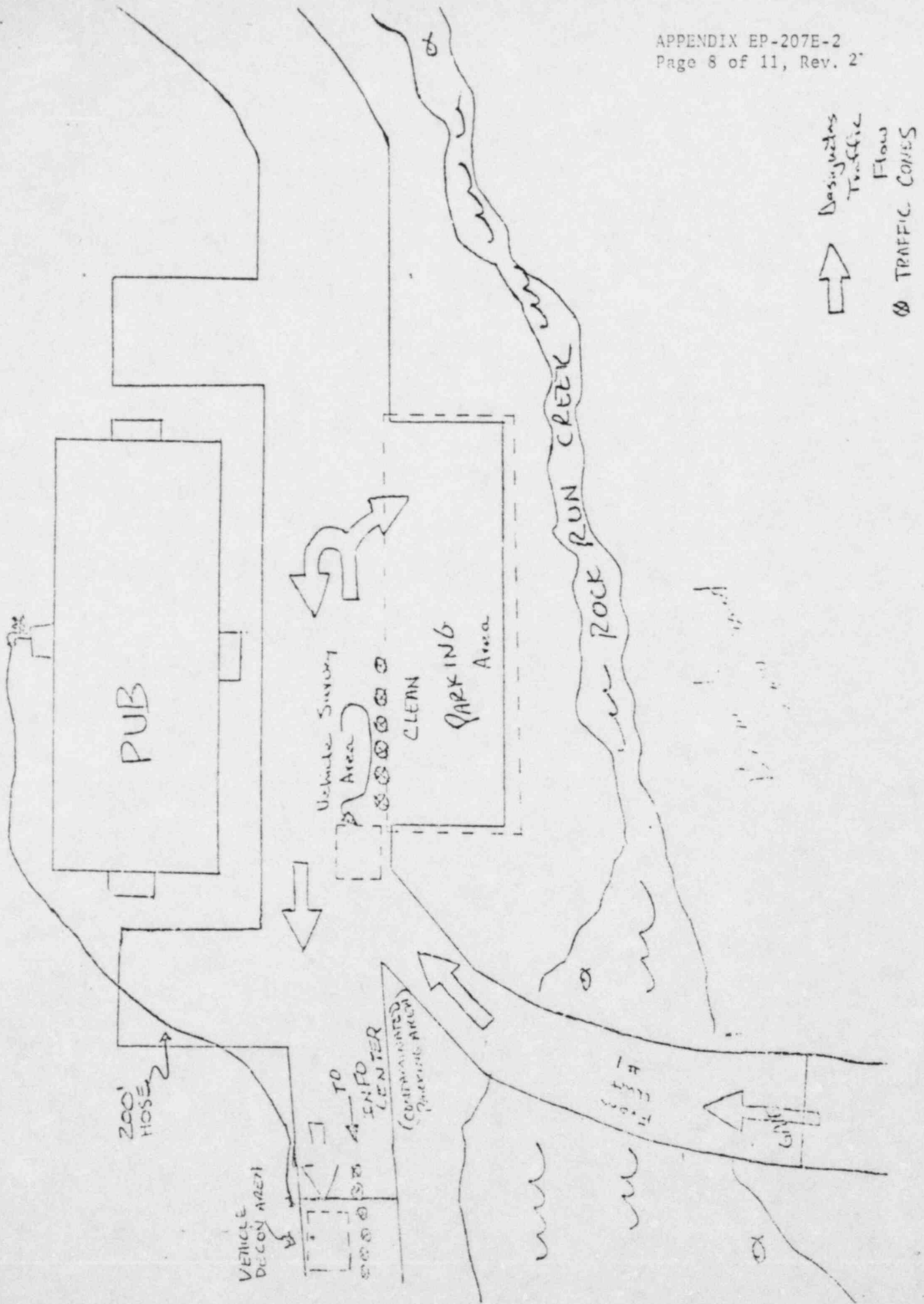
Vehicle  
Survey  
Area

Designates  
Traffic  
Flow

⊗ TRAFFIC CONTROL



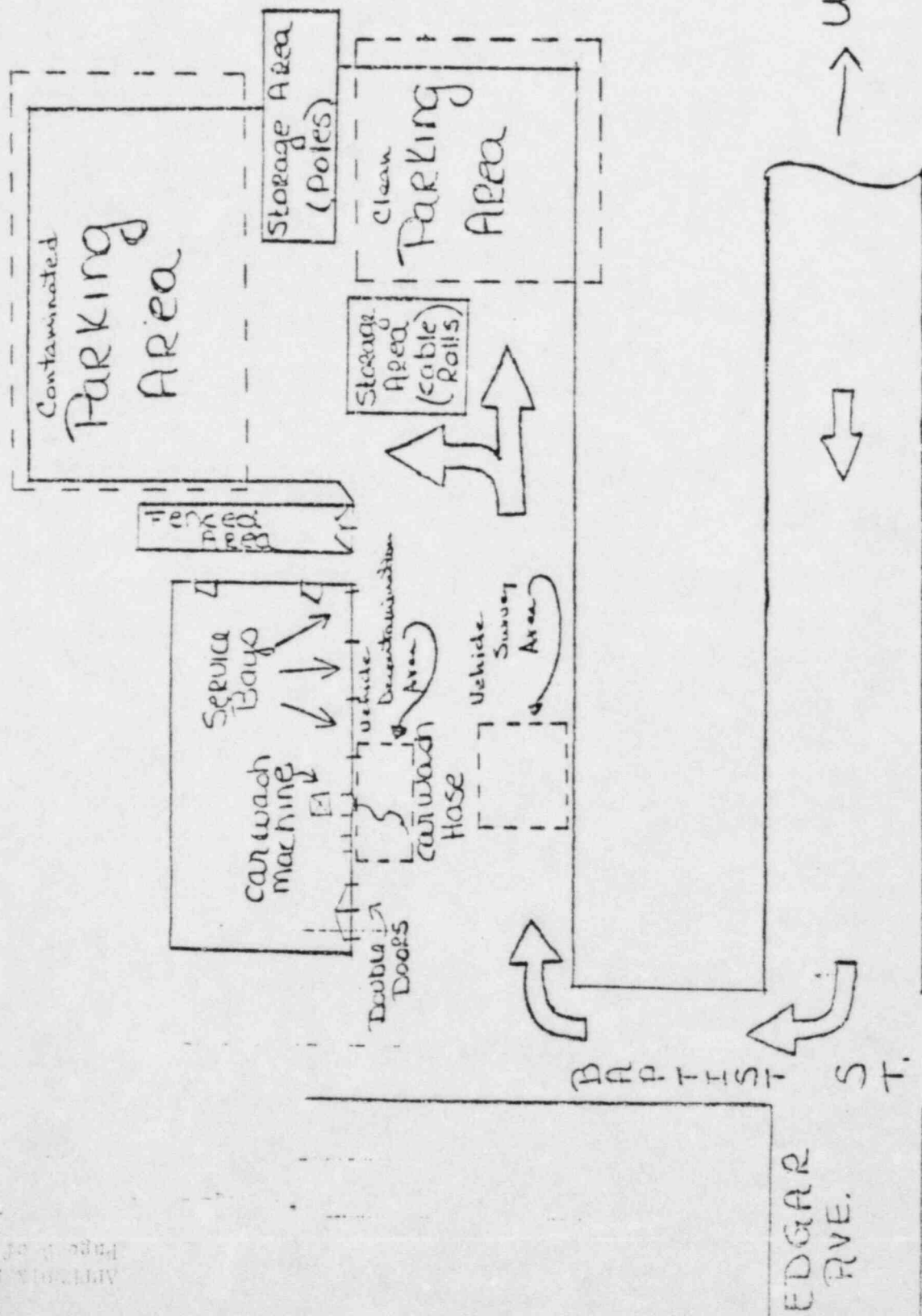
Residents Utility Building





# Delta Service Building (Delta, PA.)

EP-104-3



Designates  
Traffic  
Flows



Vehicle Owner: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Address: \_\_\_\_\_

Driver's Name: \_\_\_\_\_

Occupant's Name(s): \_\_\_\_\_

Vehicle Description:

Make: \_\_\_\_\_ Model: \_\_\_\_\_ Color: \_\_\_\_\_ License No.: \_\_\_\_\_

Description of extent of vehicle contamination and location:

Evacuation Control Center: \_\_\_\_\_

Remarks: \_\_\_\_\_

Signature: \_\_\_\_\_

APPENDIX EP-207E-5

UNCONTAMINATED VEHICLE REGISTRATION FORM

DATE \_\_\_\_\_

TAG # (AND STATE)

MAKE

TYPE

DRIVER/OWNER NAME

TIME

DISTRIBUTION:

*Director Emerg Prep*  
SS SV

EP-209 APPENDIX D-7 TECHNICAL SUPPORT CENTER GROUP

Office

EP-209

APPENDIX D-7

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GG:clb

*[Signature]*  
AUG 01 1983

Emergency Director

R. S. Fleischmann

Alternate

D. C. Smith

Technical Engineer

J. E. Winzenried

Alternates

D. C. Smith

S. R. Roberts

S. A. Spitko

A. A. Pulvio

G. F. Dawson

Supervising Engineers & Alternates

Outage Planning Engineer

D. C. Smith

Administration Engineer

S. J. Kovacs

Results Engineer

J. F. Mitman

Alternate: T. J. Niessen

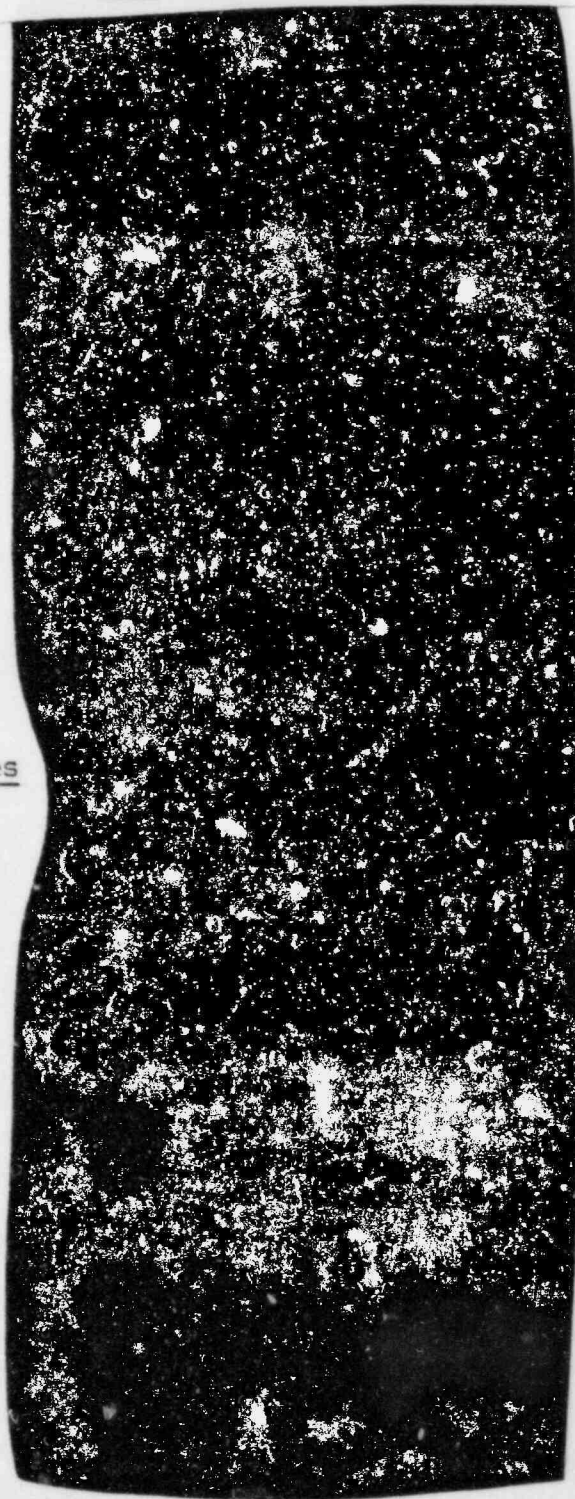
I & C Engineer

G. F. Dawson

Alternate: D. B. Warfel

Home

Centrex



Reactor Engineer

A. J. Wasong

Alternate: F. W. Polaski

Plant Chemist

H. L. Watson

Alternate: G. Barley

Quality Assurance Engineer

S. A. Spitko

Alternate: R. M. Sware

Maintenance Engineer \*\*\*

J. K. Davenport

Alternate: A. A. Fulvio

Senior Health Physicist \*\*\*

A. E. Hilsmeier

Alternate: N. F. Gazda

Applied Health Physicist \*\*\*

N. F. Gazda

Alternate: C. S. Nelson

Record Keeper and Communicator

See EP-209 Appendix I-1 for personnel to fill this position.

Data Display Operators - 2 required

Notify one of the five persons in the order listed below. The person notified will contact two Data Display Operators.

1. R. O. Carr
2. K. T. Voight
3. C. E. Andersen
4. D. A. Davridge
5. D. D. Burguard

\*\*\* Required to report to the EOF when activated.

Secretaries  
2 required

L. McCleary  
L. Henry  
L. Davis  
W. Felts  
T. Hutton  
C. Brainerd  
S. Holgate  
J. Hoopes  
J. Williams  
S. Wiley

Home

Centrex

