AmerGen An Exelon/British Energy Company	OYSTER CREEK EMERGENCY PREPAREDNESS IMPLEMENTING PROCEDURE	Number EPIP-OC-.03

Title		Revision No.
EMERGENCY NOTIFICATION		27
Applicability/Scope Applies to work at Oyster Creek	Usage Level **2**	Responsible Department Emergency Preparedness
This document is within QA plan scope Safety Reviews Required	X Yes ___ No ___ Yes X No	Effective Date (06/25/01) 07/05/01

Prior Revision 26 incorporated the following Temporary Changes:

N/A

This Revision 27 incorporates the following Temporary Changes:

N/A

List of Pages (all pages rev'd to Rev. 27)

1.0 to 7.0
E1-1 to E1-5
E2-2 to E2-2

NON-CONTROLLED
This Document Will Not
Be Kept Up To Date
DCC Oyster Creek

	Signature	Concurring Organization Element	Date
Originator		Emergency Planner	6/22/01
Concurred By		Plant Manager	6/22/01
Approved By	FOR J. GALLAGHER	Emergency Preparedness Mgr, OC	6/25/01

PROCEDURE HISTORY

Revision	Date	Originator	Summary of Change
11	06/07/94	A. Smith	Update NRC telephone numbers and add Document History page.
12	05/94	A. Smith	Remove requirement for SS checklist to be transmitted to BNE at end of UE. Modify off-site notification forms to align with states, clarify NRC notification following state and local notifications. Add BNE phone #, Block and route to SAE and GE Forms.
13		A. Smith	Change beeper number for L. Briggs NRC
14		A. Smith	Remove INPO & ANI notifications from EXHIBIT 1B. Communications now taking that over.
15	06/95	A. Smith	Update phone numbers and add new notes to Exhibit 4, NRC Status Board data, to clarify this exhibit only used when ERDS is down.
16	12/95	T. Blount	Correct ED information, modify Notification Matrix, capture cont. inj. person notification requirements, remove North Gate as point of egress.
17	01/96	T. Blount	Pager changes requires changing phone numbers.
18	07/96	P. Hays	Prevent confusion as to whether a form is related to a drill event or a real event.
19	10/96	T. Blount	Allow use of other forms for documentation of Notification process. Incorporate follow-up notifications.
20	06/97	T. Blount	Delete AEOF consistent w/E-Plan Rev. 11, Add Sample forms to use. Remove/change NRC resident information. Remove reference to PTFC. Also, delete Exhibit 4 NRC Status Board Data and clean up signature blocks.
21	10/97	A. Smith	Delete reference to EPIP-.04. Correct nomenclature on ERF telephone circuits correct typo on E3-2 "T" to "U".
22	09/98	P. Hays	Clarify offsite notification forms by removing the notification matrix and related exhibits and keeping the new NCR triplicate form. Update the Plant Condition Follow-up Form.
23	05/99	A. Smith	Clarify off-site notification transfer between the ECC and EOF.
24	01/00	A. Smith	Clarify emergency notification sequence to on-site and off-site agencies.
25	01/00	A. Smith	Change references from GPU to OCNGS.
26	09/00	G. Busch	Removed CRO designation for Communications Coordinator.
27	06/01	R. Finicle	Added new Emergency Report Form, added new PAR Notification Form and provide clarification as to what form is used for notifications.

1.0 PURPOSE

1.1 This procedure provides the mechanism for emergency notifications to be made to on-site personnel and off-site agencies (as required in the Emergency Plan) in an accurate and timely manner.

1.2 This procedure shall be initiated by the Emergency Director and implemented by the ECC and EOF Communications Coordinator.

1.2.1 A communicator designated by the Emergency Director will initially implement this procedure until relieved by the on-call ECC or EOF Communications Coordinator.

2.0 APPLICABILITY/SCOPE

2.1 This procedure applies to those persons making notifications and/or providing information to on-site personnel or off-site agencies during a declared or simulated emergency.

2.2 This procedure applies to the 10CFR50.72 requirement for immediate notification of any declared emergency class. All other notifications shall be made in accordance with the applicable station procedure.

3.0 DEFINITIONS

None

4.0 RESPONSIBILITIES

4.1 The GSS/Emergency Director shall:

4.1.1 Designate a communicator to implement this procedure until properly relieved by the on-call ECC or EOF Communications Coordinator.

4.1.2 Direct all off-site notifications made in accordance with this procedure until the ESD has activated the EOF and assumed the off-site notifications. The EOF Communicator will notify the ECC of the transfer.

4.1.3 Direct Control Room Staff to make appropriate on-site announcements.

4.2 The On-Shift ECC Communications Coordinator (designated CRO) shall:

4.2.1 Complete Off-Site Notifications Checklist (Exhibit 1A) until relieved of this duty by the on call ECC or EOF Communications Coordinator.

4.2.2 Complete On-Site Notifications Checklist (Exhibit 1A).

4.3 The On-Call ECC Communications Coordinator shall relieve the On-Shift ECC Communicator and complete Off-Site Notification Checklist (Exhibit 1A) until directed to transfer the offsite notifications to the EOF Communications Coordinator.

NOTE

When offsite notifications are transferred to the EOF, the EOF Communication Coordinator shall be notified via telephone of the transfer and inform the communicator that a fax of all completed offsite notifications from the ECC will follow.

5.0 PROCEDURE

5.1 Emergency Notifications should be performed using forms similar to Exhibit 1A to document off-site and on-site notifications.

5.1.1 Page announcements and notifications should be made in the following order:

1. Plant Page (Announcement copy)
2. OEM State Police (Notification copy)
3. Only at GE, Lacey Twp., Ocean Twp., and Ocean County (Notification copy)
4. NRC (Notification copy)
5. Other On-site Notifications (Notification copy)

5.1.2 Exhibit 1B is used to document the communication of the Protective Action Recommendation (PAR) or an expansion of the PAR.

5.1.3 Exhibit 2 should be used to document plant operating conditions. Other forms or methods are permitted so long as the pertinent information is provided (e.g. Major Transients, ECCS Status, Rad Monitoring).

5.1.4 Emergency notifications to on-site personnel will be accomplished by using the Plant Paging System.

5.2 Emergency notifications to the New Jersey State Police will be accomplished within 15 minutes of the declaration of any emergency classification.

5.2.1 If a General Emergency has been declared, Ocean County, Lacey and Ocean Townships will also be notified within 15 minutes.

5.2.2 Notifications to the New Jersey State Police and Ocean County will be verified by a return call from each organization. This verification call must be answered to ensure validity of incident. If the verification has not been received within 5 minutes of the notification call then contact the agency via the notification line to request a verification call.

5.3 Emergency notifications to the Nuclear Regulatory Commission (NRC) will be made as soon as possible after making the state and local notifications but within 1 hour of the declaration of any emergency classification. NRC may request continuous manning of this line. Only one (1) Emergency Center at one time should provide this continuous communication link.

5.3.1 The NRC should be notified of the "Protective Action" implemented by the State of New Jersey. This info should be verified through the NJSP-OEM by the ED/ESD. Use Ex. 1C - Protective Action Notification (to NRC) form or similar form to document transmittal.

5.4 The Station Status Checklist will be completed and updated every 30 minutes or as changes occur for transmittal to the N.J. Bureau of Nuclear Engineering (BNE) when requested. Only initial, and any significant changes require a SSC to be sent when in a UE level of emergency. After BNE is established at the EOF, no further transmittal of the SSC is required. Refer to Station Status Checklist (Exhibit 2).

5.5 If Communication equipment problems or failures arise, attempt to utilize alternate means and contact the TSC to initiate repairs.

5.6 If additional notification phone numbers are needed, refer to Procedure EPIP-OC-.06, "Additional Assistance and Notifications".

5.7 The "Simulator Communications Interface" switch on the operators communication console shall be left in the OFF position unless the GSS has authorized placing the switch in ON. The switch should be placed in ON only for Emergency Preparedness Drills, training evolutions and communication system testing and then returned to OFF when completed.

NOTE

When both the Simulator Communications Interface switch in the Control Room and the same switch in the Simulator Control Room are in the ON position the following communications are affected:

- Phone systems transferred to the Simulator completely:
  - NRC ENS
  - NJSP notification & verification
  - Ocean County notification & verification
  - All ERF Circuits
  - 693-8728 Plant Status Update Line Alt. (Fax)
  - 971-4959
  - 971-0220
  - 971-4550
  - BNE Info Line
  - ECC/EACC Direct Line
  - ED/ESD Hotline
  - NJ State ED Hotline
- Plant page and Radio capability are provided to the Simulator Control Room without affecting onsite systems.

6.0 REFERENCES

6.1 Title 10, Code of Federal Regulations, Part 50.72 "Immediate Notification requirements for Operating Nuclear Power Reactors".

6.2 Procedure EPIP-OC.06 "Additional Assistance and Notifications".

6.3 Procedure 8000-IMP-1720.01, Emergency Public Information Implementing Procedure.

7.0 EXHIBITS

7.1 Exhibit 1A Notification Checklist

7.2 Exhibit 1B PAR Notification Form

7.3 Exhibit 1C Protective Action Notification to NRC

7.4 Exhibit 2 Station Status Checklist

EXHIBIT 1A
SAMPLE - NOTIFICATION FORM

OYSTER CREEK GENERATING STATION — EMERGENCY REPORT FORM - OC (Press Firmly and Write Clearly) — ED-Copy — PART 1 OF 3

❑ This is a Drill. This is a Drill ❑ This is NOT a Drill. This is NOT a Drill

EMERGENCY CLASSIFICATION

❑ An/a ______ (Event Declared) was declared at ______ (24 Hour Clock) on ______ (Date) The EAL is ______

❑ The Event has been de-escalated to an/a ______ (Event Declared) at ______ (24 Hour Clock) on ______ (Date) The EAL is ______

❑ The Event has been terminated at ______ (24 Hour Clock) on ______ (Date)

EVENT DESCRIPTION

______

RADIOACTIVE RELEASE STATUS

❑ There is no abnormal radioactive release in progress.
❑ There is an abnormal ____(AIRBORNE/LIQUID)____ radioactive release in progress. (i.e. exceeds ODCM limits)

METEOROLOGICAL CONDITION

Wind direction is from ______ degrees and wind speed is ______ miles per hour. (Use 300 ft. ... wind direction and speed)

ON-SITE PROTECTIVE ACTION

❑ (UE) All personnel should continue with their normal duties pending further notice.
❑ (ALERT/SAE/GE) All on-duty members of the Emergency Response Organization report to emergency centers.
❑ (ALERT only) All other personnel should continue with their normal duties pending further instructions.
❑ (ALERT/SAE/GE) Eating, Drinking and Smoking is prohibited until further notice.
❑ (SAE only) **Site Accountability** has been ordered. All non-essential personnel in the protected area report to the Emergency Assembly Area in the (select one) ❑ **OCAB Cafeteria** OR ❑ **Warehouse.** Route (if needed) ______

❑ (GE only) **Site Evacuation** has been ordered. All non-essential personnel, who do not have a specific emergency assignment shall leave the site through the Main Gate. Route to Main Gate (If needed) ______

Use the (SOUTH/NORTH) evacuation route to the ❑ **Remote Assembly Area** ❑ **Forked River Assembly Area**

NOTES ONLY - DO NOT WRITE IN THIS SPACE

1. In the special case of a security event which does not upgrade current classification, ensure the NRC is notified of the event and status of plant security VIA the ENS line.
2. If an environmental event occurs which is included in category V of procedure 126, ensure appropriate 126 notifications are complete.
3. If a contaminated injured person must be transported off-site, ensure appropriate notifications are complete.
4. The Station Status Checklist should be completed and communicated to the NJBNE once per half-hour or as conditions change. Only initial and any significant changes require SSC to be sent when in a UE level of emergency. After confirmation that the BNE is established at the EOF the SSC is no longer required to be transmitted.
5. Ensure the organizations contacted as listed on the notification forms are notified of termination.

APPROVAL

Signature ______ 24 hour clock ______ Date ______

5855 (04/01)

EXHIBIT 1A
SAMPLE - NOTIFICATION FORM (Cont'd)

OYSTER CREEK GENERATING STATION	EMERGENCY REPORT FORM – OC *(Press Firmly and Write Clearly)*	PART 2 OF 3 ON-SITE ANNOUNCEMENT

Alert agency for notification or contact. Read Message Slowly & Clearly: Attention all Personnel. Attention all personnel. (Sound Station Alarm for 10 seconds)

❑ This is a Drill. This is a Drill ❑ This is NOT a Drill. This is NOT a Drill

EMERGENCY CLASSIFICATION

❑ An/a _____ (Event Declared) was declared at _____ (24 Hour Clock) on _____ (Date) The EAL is _____

❑ The Event has been de-escalated to an/a _____ (Event Declared) at _____ (24 Hour Clock) on _____ (Date) The EAL is _____

❑ The Event has been terminated at _____ (24 Hour Clock) on _____ (Date)

EVENT DESCRIPTION

_____

_____

RADIOACTIVE RELEASE STATUS

❑ There is no abnormal radioactive release in progress.

❑ There is an abnormal (AIRBORNE/LIQUID) radioactive release in progress. *(i.e. exceeds ODCM Limits)*

ON-SITE PROTECTIVE ACTION

❑ (UE) All personnel should continue with their normal duties pending further notice.

❑ (ALERT/SAE/GE) All on-duty members of the Emergency Response Organization report to emergency centers.

❑ (ALERT only) All other personnel should continue with their normal duties pending further instructions.

❑ (ALERT/SAE/GE) Eating, Drinking and Smoking is prohibited until further notice.

❑ (SAE only) **Site Accountability** has been ordered. All non-essential personnel in the protected area report to the Emergency Assembly Area in the (select one) ❑ **OCAB Cafeteria** OR ❑ **Warehouse.** Route (if needed) _____

_____

❑ (GE only) **Site Evacuation** has been ordered. All non-essential personnel, who do not have a specific emergency assignment shall leave the site through the Main Gate. Route to Main Gate (if needed) _____

_____

Use the (SOUTH/NORTH) evacuation route to the ❑ **Remote Assembly Area** ❑ **Forked River Assembly Area**

[redacted]

5855 (04/01)

APPROVAL

Signature	24 hour clock	Date	Communicator Signature	24 hour clock	Date

EXHIBIT 1A
SAMPLE - NOTIFICATION FORM (Cont'd)

OYSTER CREEK GENERATING STATION | EMERGENCY REPORT FORM – OC *(Press Firmly and Write Clearly)* | PART 3 OF 3 OFF-SITE NOTIFICATIONS

Start here for notification or contact. Read Message – Slowly – Clearly

❑ This is a Drill. This is a Drill ❑ This is NOT a Drill. This is NOT a Drill

This is _____ (Communicator's Name) at Oyster Creek Nuclear Generating Station (select one) ❑ CR ❑ TSC ❑ EOF

EMERGENCY CLASSIFICATION

❑ An/a _____ (Event Declared) was declared at _____ (24 Hour Clock) on _____ (Date) The EAL is _____

❑ The Event has been de-escalated to an/a _____ (Event Declared) at _____ (24 Hour Clock) on _____ (Date) The EAL is _____

❑ The Event has been terminated at _____ (24 Hour Clock) on _____ (Date)

EVENT DESCRIPTION

_____

_____

RADIOACTIVE RELEASE STATUS

❑ There is no abnormal radioactive release in progress.

❑ There is an abnormal (AIRBORNE/LIQUID) radioactive release in progress. *(i.e. exceeds ODCM Limits)*

METEOROLOGICAL CONDITION

Wind direction is from _____ degrees and wind speed is _____ miles per hour. *Use 380' Elev ... for wind direction and speed*

[redacted]

OFF-SITE NOTIFICATION RECORD NOTE: Verifications should be within 5 minutes of initial contact

❑ NJ State Police (WITHIN 15 MINUTES OF ALL DECLARATIONS) via State Notification or Alternate 609-882-4201 or 609-882-2000

Time of Contact _____ Person Contacted _____

Time of verification _____ Person Calling _____

❑ Ocean County (at GE only) (within 15 minutes of declaration of General Emergency) via Dedicated Line or Alter. 732-349-9100

Time of Contact _____ Person Contacted _____

Time of verification _____ Person Calling _____

❑ Lacey Township (at GE only) (within 15 minutes of declaration of General Emergency) via 609-693-6636 or Alter. 609-693-6637

Time of Contact _____ Person Contacted _____

❑ Ocean Township (at GE only) (within 15 minutes of General Emergency) via 609-693-4007 or Alter. 609-693-4008

Time of Contact _____ Person Contacted _____

❑ NRC (immediately following State and Local Notifications) via ENS Line or Alter. 301-816-5100 or 301-951-0550

Time of Contact _____ Person Contacted _____

❑ ERDS initiated at _____ (Within 1 hour of a declaration of an ALERT of higher)

❑ On-call BNE information (Contact NJSP if BNE has not called within 30 minutes of initial NJSP Notification)

Name _____ Voice Phone # _____ FAX # _____

❑ NRC SR. RESIDENT/RESIDENT OFFICE 4978 BEEPER 800-398-6650/800-398-7497 PERSON CONTACTED _____

APPROVAL

Signature | 24 hour clock | Date | Communicator Signature | 24 hour clock | Date

EXHIBIT 1B

PAR NOTIFICATION FORM

NOTE

Personally provide the PAR to the Senior State Official at the State EOC, within 15 minutes of a General Emergency. Verify that you are speaking to the Senior Official at the State EOC when providing the PAR. If the PAR is provided prior to State EOC activation, the State has agreed that the State Dispatcher will be considered the "Senior State Official".

INITIAL PAR

☐ We recommend evacuation for the general population within 2 miles of the plant and Compass Sectors _____, _____ and _____ out to a distance of _____ miles. We also recommend Sheltering, for the general population within all other areas of the EPZ.

☐ We recommend Sheltering for the general population within the 10 mile EPZ.

EXPANSION OF PAR

☐ We recommend evacuation for the general population within _____ miles of the plant and Compass Sectors _____, _____ and _____ out to a distance of _____ miles. We also recommend sheltering for the general population within all other areas of the EPZ.

☐ We recommend evacuation for the general population within _____ miles of the plant.

Signature_____ Time_____ Date_____

Senior State Official Notified_____ Time_____ Date_____

EXHIBIT 1C

PROTECTIVE ACTION NOTIFICATION (to NRC)
AS IMPLEMENTED BY THE STATE OF NEW JERSEY

"THIS IS NOT A DRILL - I REPEAT, THIS IS NOT A DRILL"

-OR-

"THIS IS A DRILL - THIS IS A DRILL"

"This is _____ at Oyster Creek Nuclear Generating Station.
(Name/Title)

_____

_____

_____

_____

_____

_____

_____

_____

_____
ED/ESD Approve/Time

"Please State Your Name"

NRC (ENS Phone)

MAID (301) 816-5100
BACKUP (301) 951-0550

_____
Name of NRC Representative/Time Call Initiated

Notification Complete: _____
Communicator Signature/Name/Title

ED Asst/ESD Asst Review: _____
Signature/Title

EXHIBIT 2

STATION STATUS CHECKLIST
(page 1 of 2)

EXAMPLE

"THIS IS NOT A DRILL - I REPEAT, THIS IS NOT A DRILL"
- OR -
"THIS IS A DRILL - THIS IS A DRILL"

1. Message Date:_____ Time:_____ Transmitted by:_____
Name/Title or Position

2. Emergency Classification: ☐ Unusual Event ☐ Alert ☐ Site Area Emergency ☐ General Emergency
at Date:_____ Time:_____

3. EAL Number:_____ Description of Emergency:_____
(EPIP-OC-.01 Appendix 1.)
_____
_____
_____

4. Reactor Status: ☐ Scrammed @_____(Time) ☐ At Power_____% ☐ Hot Shutdown ☐ Cold Shutdown

5. Reactor Pressure:_____PSIG Recirc Loop Temp:_____°F
Reactor Water Level:_____"TAF

6. Off-site Power available? ☐ Yes ☐ No

7. EDG 1 operable? ☐ Yes ☐ No On Line? ☐ Yes ☐ No
EDG 2 operable? ☐ Yes ☐ No On Line? ☐ Yes ☐ No

8. Did Isolation Condenser(s) initiate? ☐ Yes ☐ No
Did Core Spray(s) inject? ☐ Yes ☐ No
Did ADS actuate? ☐ Yes ☐ No

9. Primary Containment operable? ☐ Yes ☐ No Isolated? ☐ Yes ☐ No
Secondary Containment operable? ☐ Yes ☐ No Isolated? ☐ Yes ☐ No
(Reactor Building)

10. Other Pertinent Information:_____
_____
_____
_____

"THIS IS NOT A DRILL - I REPEAT, THIS IS NOT A DRILL"
- OR -
"THIS IS A DRILL - THIS IS A DRILL"

EXHIBIT 2

STATION STATUS CHECKLIST
(page 2 of 2)

EXAMPLE

"THIS IS NOT A DRILL - I REPEAT, THIS IS NOT A DRILL"
- OR -
"THIS IS A DRILL - THIS IS A DRILL"

RADIOLOGICAL INFORMATION Message Date_____Time
(Obtain Rad information from RAC or Group Leader R & EC)

11. **Gaseous Release:** ☐ YES Start Time_____, Terminated ☐ YES Time_____
☐ NO ☐ NO
Anticipated or Known Duration_____Hrs.

Type of Release: ☐ Ground ☐ Elevated
Wind Speed_____(mph) Wind Direction From_____(deg)
Stability Class A___B___C___D___E___F___G_
Iodine (DEI) Release Rate:_____µCi/s
Noble Gas Release Rate:_____µCi/s

12. **Projected Off-Site Dose Rate Calculations** (As Soon As Data is Available)

Distance (miles)	Total Whole Body Dose Rate (TEDE)	Adult Thyroid Dose Rate (CDE) Commitment
SB .25	_____mrem/hr	_____mrem/hr
2	_____mrem/hr	_____mrem/hr
5	_____mrem/hr	_____mrem/hr
10	_____mrem/hr	_____mrem/hr

(Millirem Per Inhalation Hour)

13. **Liquid Release:** ☐ YES Start Time_____, Terminated ☐ YES Time_____
☐ NO ☐ NO
Anticipated or Known Duration_____Hrs
Estimated Concentration_____µCi/ml
Release Flow Rate_____Gallons/min

14. Other Information:_____
_____
_____
_____

Approved_____(Licensed Operator or STA)

"THIS IS NOT A DRILL - I REPEAT, THIS IS NOT A DRILL"
- OR -
"THIS IS A DRILL - THIS IS A DRILL"

AmerGen An Exelon/British Energy Company	OYSTER CREEK EMERGENCY PREPAREDNESS IMPLEMENTING PROCEDURE	Number EPIP-OC-.10

Title **Emergency Radiological Surveys Onsite**		Revision No. 11
Applicability/Scope Applies to work at Oyster Creek	Usage Level 2	Responsible Department Emergency Preparedness
This document is within QA plan scope _X_ Yes ___ No 50.59 Reviews Required ___ Yes _X_ No		Effective Date (06/25/01) 07/05/01

Prior Revision 10 incorporated the following Temporary Changes:

N/A

This Revision 11 incorporates the following Temporary Changes:

N/A

List of Pages (all pgs. rev'd to Rev. 11)

	Signature	Concurring Organization Element	Date
Originator		Lead Emergency Planner	6/22/01
Concurred By	Mark Moore	Manager Radiation Protection	6/23/01
Approved By	for J. Grisewood	Emergency Preparedness	6/25/01

PROCEDURE HISTORY

REV	DATE	ORIGINATOR	SUMMARY OF CHANGE
3	12/94	A. Smith	Add Document History page and correct numbering on Exhibits 18 through 23.
4	09/95	J. Bontempo	Use cellular phones as primary communications for FMT's.
5	01/96	J. Bontempo	Correct references to Exhibits 8 through 21 (previously 9 through 22).
6	03/97	A. Smith	Allow RAC to perform the RCC duties, update survey maps, delete Exhibit 13, recovery of radio communications due to cell phones being primary mode of comm.
D	06/97	J.W. Rayment	Draft - when ready to be rev'd don't forget to put In your summary of change.
7	09/98	J.W. Rayment	•Add initial spaces to section 4.2, delete initial spaces from exhibits 1, 2, & 4. •Allow use of normal Rad Con procedures for surveys. •Change exhibits to reflect normal procedures. •Delete exhibits that do not reflect normal procedures. •Change 1/4 mile offsite map to be more accurate. •Change air sampling default to 1 minute samples. •Change air sampler to Lo volume instead of Hi volume.
8	10/99	A. Smith	Update phone numbers for field teams. Remove reference to EPIP-OC-.04, this procedure was deleted.
9	12/99	G. Seals	Procedure does not comply with minimum detectable activity requirements of NUREG 0654.
10	DOS	A. Smith	Change reference from GPU or GPUN to OCNGS
11	06/01	R. Finicle	Changed Safety Review Required from "yes" to "no" on the cover page. Changed the title "GRCS" to "on-shift Radiological Assessment Coordinator. Update DC Air Sample info. Update vehicle usage.

1.0 PURPOSE

1.1 This procedure describes the responsibilities and duties of personnel involved in the conduct of Onsite Radiological/Environmental Monitoring.

2.0 APPLICABILITY/SCOPE

2.1 This procedure applies to all emergency response personnel involved in Onsite Radiological/Environmental Monitoring Team activities.

2.2 This procedure is to be initiated upon any of the following conditions:

2.2.1 Alert, Site Area Emergency or General Emergency as determined by Procedure EPIP-OC-.01, Classification of Emergency Conditions.

2.2.2 Upon direction of the Emergency Director.

3.0 DEFINITIONS

3.1 None

4.0 RESPONSIBILITIES

4.1 Onsite RAC

4.1.1 The RAC may perform the responsibilities of the RCC. If that occurs, FMT activities will be reported to the RAC directly until there are personnel resources available to station the RCC function separately. When the resources are available, the RAC may transfer onsite FMT activities to the RCC.

4.2 Onsite Radiological/Environmental Survey Teams

4.2.1 The Onsite Radiological/Environmental Survey Team communicates directly to the RAC/RCC and is responsible for conducting emergency radiological monitoring within the Protected Area and up to 1/4 mile perimeter from the site boundary (Exhibit 12, 1/4 mile Offsite Map).

NOTE

The Onsite Radiological/Environmental Survey Team may be directed beyond the 1/4 mile perimeter to perform offsite radiological monitoring until the Offsite Radiological/Environmental Survey Teams are fully manned and ready to be deployed.

NOTE

Offsite monitoring points are found in Exhibit 12 of Procedure EPIP-OC-.11, Offsite Radiological Environmental Surveys.

INITIALS

4.2.2 Team members shall assemble and complete actions identified in Exhibit 1, "Team Assembly and Formation".

4.2.3 Team members shall obtain monitoring instruments and equipment utilizing Exhibit 2, "Monitoring Instruments and Equipment".

4.2.4 Team members shall conduct air sampler pre-operational checks in accordance with Reference 6.8. Also, utilizing Exhibit 3, "Emergency Air Sampling".

4.2.5 Team members shall prepare the vehicle by completing action identified in Exhibit 4, "Vehicle Preparation".

4.2.6 Team members shall utilize survey instruments during cold weather by completing actions identified in Exhibit 5, "Cold Weather Instrument Operations".

INITIALS

4.2.7 Team members shall conduct onsite surveys utilizing Exhibit 6, "Conducting on Site Surveys" when so directed. (Refer to Exhibit 10 and Exhibit 13).

_____

4.2.8 Team members shall terminate monitoring activities by completing actions identified in Exhibit 7, "Termination of Monitoring Activities".

_____

4.3 If the onsite team is dispatched offsite beyond the 1/4 mile radius, the team shall suspend use of this procedure and implement the appropriate sections of EPIP-OC-.11 for conducting surveys and collection of air samples.

_____

5.0 PROCEDURE

5.1 Onsite Radiological/Environmental Survey Team(s) members shall implement this procedure during an emergency.

6.0 REFERENCES

6.1 2000-PLN-1300.01, OCNGS Emergency Plan.

6.2 OEP-ADM-1319.02, Emergency Response Facilities and Equipment Maintenance.

6.3 EPIP-OC-.01, Classification of Emergency Conditions.

6.4 Memorandum 9502-88-0098, Field Measurement of Airborne Releases of Radioactive Material, G.M. Lodde, May 25, 1988.

6.5 Radiological/Industrial Safety and Health Awareness Report, 89-027, 9-25-89.

6.6 6630-ADM-4200.01, Radiological Surveys.

6.7 6630-ADM-4212.01, Air Sample Collection and Analysis.

7.0 EXHIBITS

7.1 Exhibit 1, Team Assembly and Formation

7.2 Exhibit 2, Monitoring Instruments and Equipment

7.3 Exhibit 3, Emergency Air Sampling

7.4 Exhibit 4, Vehicle Preparation

7.5 Exhibit 5, Cold Weather Instrument Operations

7.6 Exhibit 6, Conducting On-Site Surveys

7.7 Exhibit 7, Termination of Monitoring Activities

7.8 Exhibit 8, Onsite Emergency Monitoring Points

7.9 Exhibit 9, Onsite Monitoring Point Map

7.10 Exhibit 10, Sample Record

7.11 Exhibit 11, Air Activity (Iodine) Nomogram

7.12 Exhibit 12, Approx. 1/4 Mile Offsite Map

7.13 Exhibit 13, Survey Form

EXHIBIT 1

TEAM ASSEMBLY AND FORMATION

1.0 The Onsite Radiological/Environmental Survey Team will consist of two (2) team members. At least one member shall be a Radiological Controls Technician who shall be designated Team Leader.

2.0 The Onsite Radiological/Environmental Survey Team shall mobilize, and report as directed by the RAC/RCC.

3.0 Obtain the emergency monitoring vehicle key. If the key is not available, a backup key may be obtained from the guard at the Main Gate Processing Center.

3.1 Obtain cellular phone from On-Shift Radiological Assessment Coordinator lock box as primary mode of communications.

3.2 Obtain a portable radio for back up communications (Channel 1 would be used).

3.3 Team members shall conduct cell phone communications (primary) or radio communications (secondary) observing appropriate Radio Communications Protocol.

TEAM MEMBERS

NAME		SSN	AVAILABLE DOSE
_____	(Team Leader)	_____	_____
_____		_____	_____
_____		_____	_____

EXHIBIT 1
(continued)

TEAM ASSEMBLY AND FORMATION

NOTE

When operating the phone while in vehicle pedestal the vehicle must be on or the key in the accessory mode in order for the phone to be unlocked, then speed dial can be accomplished. When phone is hand held it operates normally.

3.3 The following is a list of locations, speed dial codes and actual phone numbers used by field teams and their respective contact.

LOCATION	SPEED DIAL	PHONE #
RAC/ECC	01	609-971-0335
RAC/TSC	02	609-971-4156
EAC/EACC	03	732-367-8805
	*	732-370-8990
FMT "A"	04	609-457-3560
FMT "B"	05	609-457-3441
FMT "C"	06	609-457-1525
ONSITE FMT	07	609-457-3592
RCC/OSC	08	609-971-4880
EMERG.	09	911
ECC	10	609-971-4666

*732-370-8990 Dial Manually

3.4 Communications and log keeping shall be conducted in accordance with EPIP-OC-.04, Communications and Recordkeeping.

4.0 If the vehicle is not available, contact Security to obtain keys for any on-site vehicle and proceed with FMT response.

5.0 If a vehicle cannot be located or returned immediately, inform the RCC/RAC and request further guidance.

EXHIBIT 2

MONITORING INSTRUMENTS AND EQUIPMENT

1.0 The onsite Radiological Survey Team shall ensure the following instruments are available in the onsite van or obtain them, From: (ie. Rad Con Count Room, Radiac Trailer, the OSC monitoring instrument locker), and perform the pre-operational checks as required.

NOTE
OP CS-137 check source is in emergency locker for use if Pre Op checks have not been done already.

1.1 One (1) doserate survey instrument with capability of measuring 0.2 mR/hr and greater and capable of determining Beta readings.

1.2 One (1) countrate survey instrument with a pancake style probe.

1.3 One (1) air sampler (Lo Vol RAS Pump)

1.4 One (1) DC air sampler

EXHIBIT 3

EMERGENCY AIR SAMPLING

NOTE 1

Silver zeolite cartridges to be used for all samples.

NOTE 2

Flow rate on all samples to be 50-62 lpm.

NOTE 3

Verify operation of power inverter in van prior to use.

Initials

1.0 DC Air Sampler Use

_____ 1.1 Ensure the 2 position switch (charge-off-run) is in the OFF position.

1.2 Connect the air sampler directly to the vehicle's battery terminals via connection on bumper or grille.

1.4 Turn ON A/S and adjust flow as needed.

_____ 1.5 Turn OFF A/S and disconnect from the vehicle.

EXHIBIT 4

VEHICLE PREPARATION

1.0 Verify emergency equipment lockers/kits are locked or sealed.

2.0 If the emergency locks are not locked or sealed, conduct an inventory using inventory checklist from Procedure OEP-ADM-1319.02, Emergency Response Facilities and Equipment Maintenance. (Appendix B-2).

3.0 Perform radio check with RAC/RCC.

4.0 Log any deficiencies and report information to RAC/RCC.

NOTE

Team members shall log into Rem-On-Line System or initiate a control point admission ticket. (An ESRD or a 0-200 mR and a 0-1500 mR SRD required.)

EXHIBIT 5

COLD WEATHER INSTRUMENT OPERATIONS

1.0 Caution must be observed to ensure instrument operation is not affected by extreme cold temperatures.

2.0 If ambient temperature is above 32°F (0°C), instrument use is unlimited.

3.0 If ambient temperature is below 32°F (0°C), continuous instrument use should be limited as follows:

Temperature	Continuous Operating Time
0 - 32°F [(-18°C) - (0°C)]	5 minutes
-20° - 0°F [(-28°C) - (-18°C)]	2 minutes

4.0 For operation in temperatures below 32°F (0°C), a battery check should be performed before and after each measurement.

4.1 If the battery check fails in either case, the measurement is not valid.

4.2 Return the instrument to the vehicle and allow the batteries to warm up.

4.3 Repeat the measurement as required.

EXHIBIT 6

CONDUCTING ON-SITE SURVEYS

1.0 If the On-Site Team is dispatched Off-Site beyond the 1/4 mile radius, suspend use of this procedure and implement appropriate sections of EPIP-OC-.11 for surveys.

2.0 The intent is to keep the vehicle within the Protected Area whenever possible. Monitoring Points ESE, SE, and SSE are outside the Protected Area. Due to the time required to enter and exit the Protected Area, verify with the OSC that those monitoring points are required.

3.0 Exhibit 8, "Onsite Emergency Monitoring Points" (describes the onsite locations).

4.0 Exhibit 9, "Onsite Monitoring Point Map" (identifies these locations).

5.0 Perform and document onsite surveys in accordance with established Rad Con procedures. (Exhibit 13: Survey Form - Example - Equivalent Form may be used).

5.1 A baseline perimeter survey should be performed when team is dispatched.

5.2 Perform surveys at the discretion of the RAC/RCC.

5.3 Identify on Survey Form whether survey location may be within the plume or not.

5.3.1 If open window reading is >110% of closed window reading, uncorrected, survey location may be within the plume.

5.4 Label all samples, (smears, air samples, water samples, etc.), with appropriate information (time, location, etc.).

EXHIBIT 6
(continued)

CONDUCTING ON-SITE SURVEYS

5.5 Refer to Exhibit 11, "Air Activity (Iodine) Nomogram", for field counting iodine air samples to estimate air iodine activity.

5.6 Document Survey on Exhibit 13 or Equivalent Form; any water, soil, or air samples to be documented on Exhibit 10 - sample record.

5.7 Communicate all survey results to the RCC/RAC as soon as practical.

NOTE 1

Draw a 5 minute minimum air sample at 25 LPM. (20-30 LPM) as indicated on the scale if possible using a watch, stopwatch or time to measure the time duration unless otherwise directed by the RAC/EAC. Sample time based on Rad. Eng. Calc. 2820-01-004.

NOTE 2

In the event that the E-van or a team member becomes contaminated, notify the RCC/RAC for a replacement or directions.

EXHIBIT 7

TERMINATION OF MONITORING ACTIVITIES

INITIALS

1.0 Upon direction of the RAC/RCC to cease monitoring activities.

_____ 1.1 Transport field monitoring samples to the Rad Con Counting Room or as directed by the RAC/RCC.

_____ 1.2 Log off the Rem-On-Line system as appropriate.

_____ 1.3 Inventory and return to storage all the emergency monitoring equipment in accordance with Appendix B of OEP-ADM-1319.02, "Emergency Response Facilities and Equipment Maintenance".

_____ 1.4 Return vehicle and keys to assigned location.

_____ 1.5 Submit team logs and data forms to RAC/RCC for his review and subsequent filing with the Document Control Center.

EXHIBIT 8

ONSITE EMERGENCY MONITORING POINTS

Sector	Location	Description
1	N	RCA perimeter road - west of Gate 8
2	NNE	RCA perimeter road - south side of Materials Warehouse
3	NE	RCA perimeter road - east side, halfway between Gate 20 and Materials Warehouse
4	ENE	RCA perimeter road - east side at Gate 20
5	E	RCA perimeter road - south east corner at AOG Building
6	ESE	Main site access road - directly south of AOG Building
7	SE	Main parking lot - first row directly south of Fuel Oil Storage Tank
8	SSE	Main parking log driveway at Main Gate 1
9	S	Auxiliary Office Building eastside adjacent to door
10	SSW	Auxiliary Office Building - westside adjacent to door
11	SW	Diesel Generator Building - eastside adjacent to door
12	WSW	Access road - westside Protected Area, west of transformers
13	W	Access road - westside Protected Area, west of demineralizer water storage tank
14	WNW	Access road - northwest corner, west of Torus Water Storage Tank
15	NW	Access road - adjacent to Gate 10A
16	NNW	Access road - halfway between North Guard House and Materials Warehouse, south of LLRW west corner

EXHIBIT 9

Onsite Monitoring Point Map

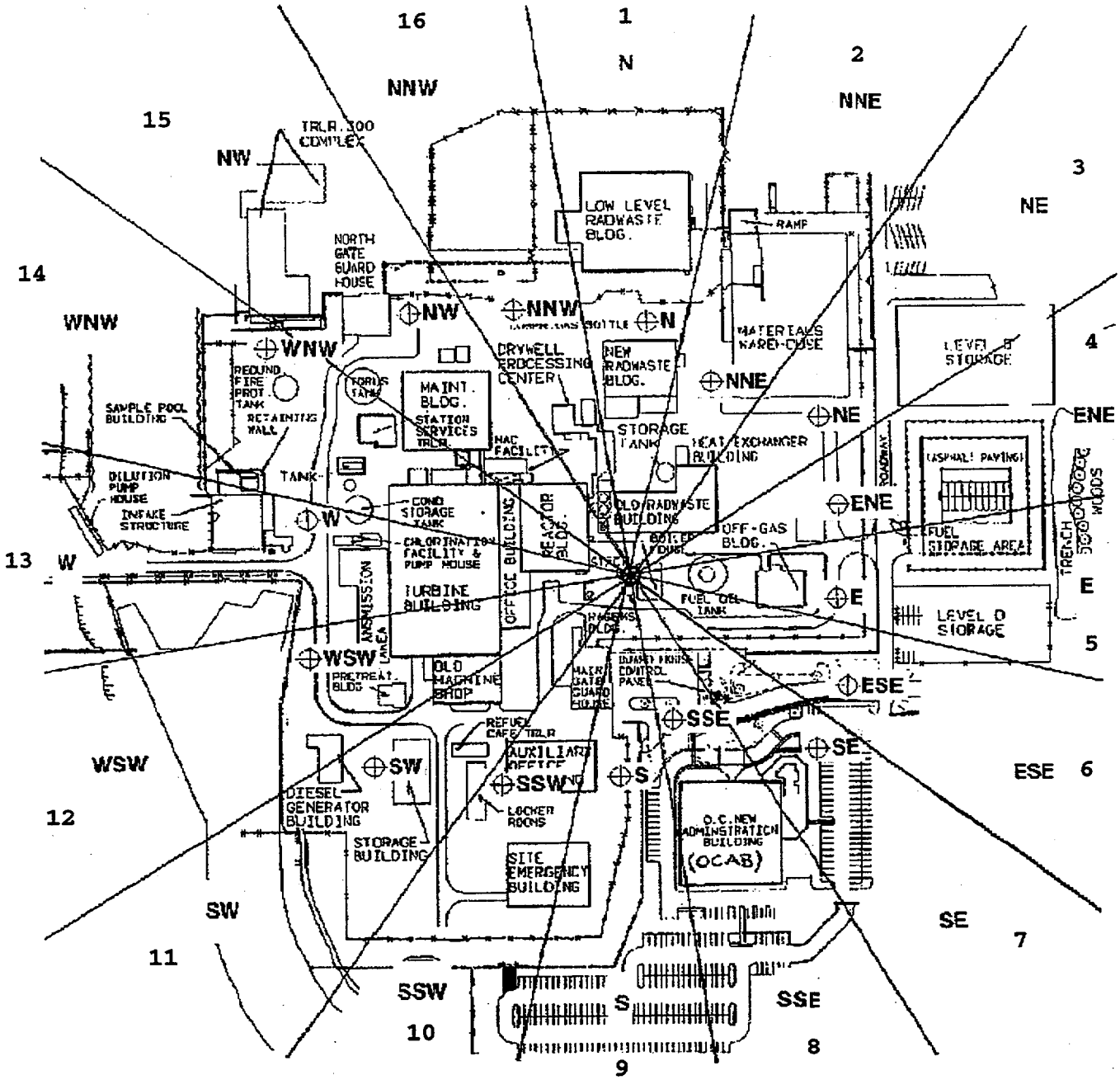


EXHIBIT 10
Sample Record

DATE:_____

#	TIME	LOCATION	SURVEY		AIR SAMPLE				
			WINDOW CLOSED mr/hr	WINDOW OPEN mr/hr	BKG cpm	PART cpm	SILVER ZEOLITE cpm	FLOW RATE LPM	RUN TIME Min
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

AIR SAMPLER TYPE_____ SERIAL NO._____ CAL. DUE_____

COUNTING INST. TYPE_____ SERIAL NO._____ CAL. DUE_____

SIGNED_____
TEAM LEADER

EXHIBIT 11

AIR ACTIVITY (IODINE)

5.5 A rough idea of the approximate iodine concentration and DAC value can be obtained from the table below:

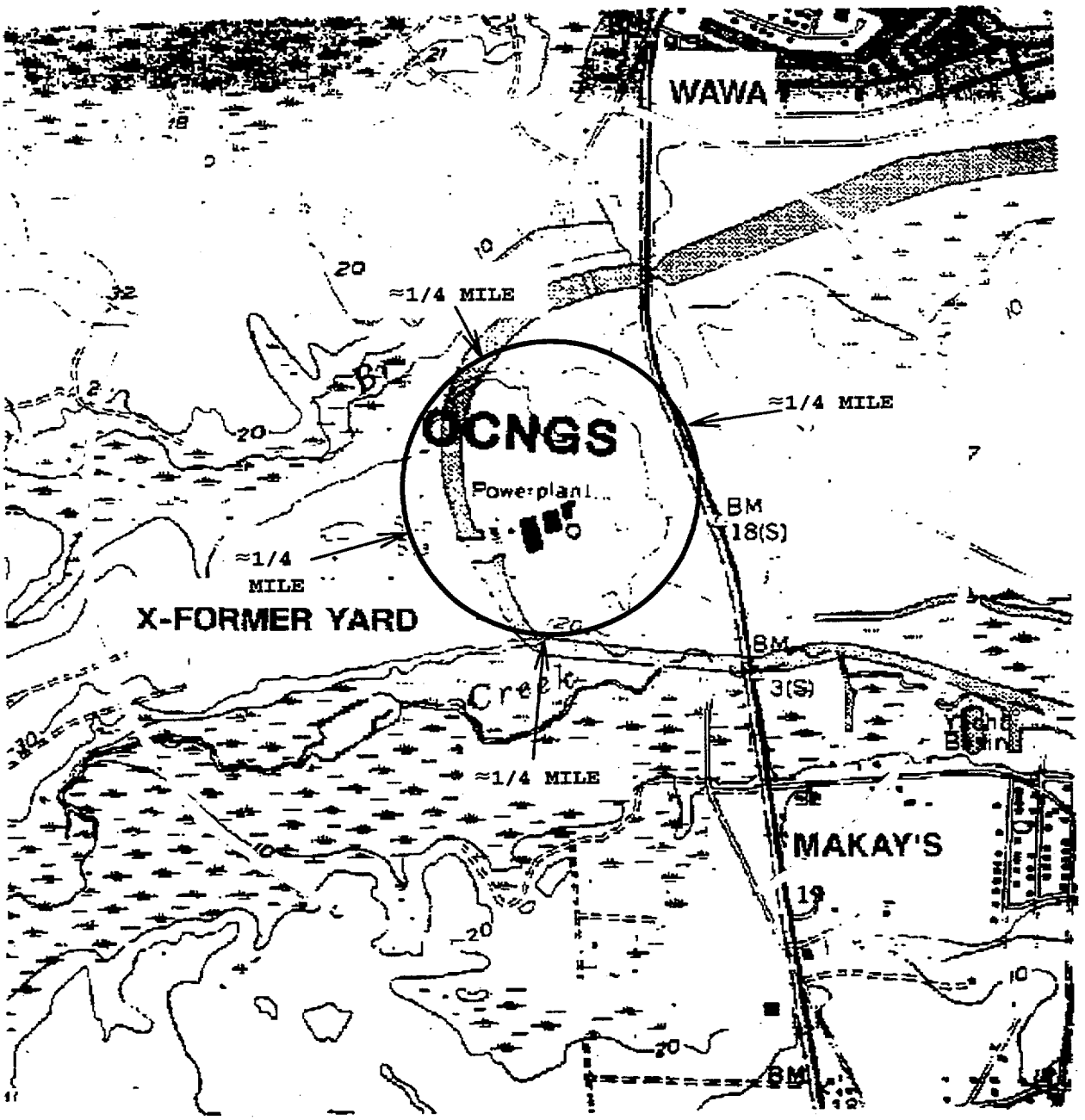
NET CPM	IODINE CONC (uCi/cc)	# of DAC's
100	9E-8	4.5
500	5E-7	25
1000	9E-7	45
5000	5E-6	250
10000	9E-6	450
50000	5E-5	2500

NOTE

This table is based on 5 minute sample times @ 25 LPM. Divide concentration and # of DAC's for all other sample times. The table is intended to give field teams a rough idea of what they are encountering. This data should not be used to make dose projections for the general public.

EXHIBIT 12

APPROX. 1/4 MILE OFFSITE MAP



OCNGS RADIOLOGICAL SURVEY

No. Date

TIME										
SECTOR	DOSE RATES (CW) (OW)	SMEAR #	DOSE RATES (CW) (OW)	SMEAR #	DOSE RATES (CW) (OW)	SMEAR #	DOSE RATES (CW) (OW)	SMEAR #	DOSE RATES (CW) (OW)	SMEAR #
N 1										
NNE 2										
NE 3										
ENE 4										
E 5										
ESE 6										
SE 7										
SSE 8										
S 9										
SSW 10										
SW 11										
WSW 12										
W 13										
WNW 14										
NW 15										
NNW 16										
Sector										
(#'s that may be in Plume)										

NOTE: REFER TO EPIP-OC-.10 EXHIBITS 8 & 9 FOR SURVEY LOCATIONS & DESCRIPTIONS

REMARKS

Time Location

RWP Reason

Rx Power %

SMEARABLE CONTAMINATION

	LOCATION	β/γ ☐ CPM ☐ DPM ☐ MRAD/HR	α DPM	AREA
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Surveyer: (print name)

Signature Date

Reviewer: (print name)

Signature Date

INSTRUMENTATION DATA

RADIATION SURVEY

INST
S/N BCF
CDD

INST
S/N BCF
CDD

CONTAMINATION SURVEY

INST
S/N BCF
CDD

EFF 10% BKG CPM

INST
S/N
CDD

CF BKG CPM

AIR SAMPLE DATA

FC

NC = Not Counted
GW = Gross Wipe
NA = Not Applicable
NT = Not Taken

(#) Contact Dose Rates are Circled [#] Smear Locations are Boxed H = Head/C = Chest/T = Thigh

All Dose Rates are General Area Readings in mr/hr Unless Otherwise Noted

☐ No BETA Detected Unless Otherwise Noted ☐ No BETA Readings Taken

Remarks:

AmerGen An Exelon/British Energy Company	**OYSTER CREEK EMERGENCY PREPAREDNESS IMPLEMENTING PROCEDURE**	Number **EPIP-OC-.11**

Title	Revision No.
Emergency Radiological Surveys Offsite	**16**

Applicability/Scope	Usage Level	Responsible Department
Applies to work at Oyster Creek	2	Emergency Preparedness

			Effective Date
This document is within QA Plan scope	X Yes	____ No	(06/25/01) 07/05/01
50.59 Reviews required	____ Yes	X No	

Prior Revision 15 incorporated the following Temporary Changes:

N/A

This Revision 16 incorporates the following Temporary Changes:

N/A

List of Pages (all pgs rev'd to Rev. 16)

	Signature	Concurring Organizational Element	Date
Originator		Emergency Planner	6/22/01
Concurred By	Mark Moore	Manager Radiation Protection	6/23/01
Approved By	FOR J. GRISEWOOD	Manager Emergency Preparedness	6/25/01

PROCEDURE HISTORY

REV	DATE	ORIGINATOR	SUMMARY OF CHANGE
4		A.T. Smith	Delete Parsippany Field Monitoring Team and Add Document History Page
5	12/94	A.T. Smith	Define RAC & EAC Acronyms pg. 4.0. Delete Reference to PTFC pg. 5.0. Clarify dosimetry pg. E2-1. Clarify Plume search directions. Remove names at locations in Exhibit 12. Clarify Dose Rate Survey Open and Closed readings.
6	09/95	J. Bontempo	Use cellular phones as primary communications for FMTs.
7	12/95	J. Bontempo	Add cell phones to activation checklist for FMTs. Delete Parsippany FMT. Correct typo.
8	10/96	J. Bontempo	Delete initial block for repetitive tasks. Rearrange order of task in E1-1. Delete term Team Leader Pg. E1-2. Correct units to lpm Pg. E2-6, E10-1, E15-1. Delete signature block of EACC^{E} from Pg. E15-1, E16-1, E17-1.
9	10/97	A. Smith	Update area codes.
10	01/98	P. Milligan	Change air sample run time from 5 minutes to 1 minute.
11	07/98	J. Rayment	New Rad Engineering Calculation determined that open window to closed window ratio needs to be changed.
12	05/99	A. T. Smith	During annual review no other changes except the reference E-Plan # were identified.
13	10/99	A. T. Smith	Update phone numbers for field teams and consolidate phone number information.
14	12/99	G. Seals	Procedure does not comply with minimum detectable activity requirements of NUREG 0654.
15	DOS	A.T. Smith	Required due to Sale of OCNGS.
16	06/01	A.T. Smith	Remove air sampler, update DC air sampler info change various bldg. locations to reflect new locations. update cell phone instructions.

1.0 PURPOSE

1.1 This procedure describes the responsibilities and duties of personnel involved in conducting Offsite Radiological/Environmental Monitoring and Sampling.

2.0 APPLICABILITY/SCOPE

2.1 This procedure applies to all Emergency Response personnel involved in Offsite Radiological/Environmental Monitoring Team activities.

2.2 This procedure is to be initiated upon any of the following conditions:

2.2.1 Alert, Site Area Emergency or General Emergency or as directed by the Emergency Director.

3.0 DEFINITIONS

3.1 None

4.0 RESPONSIBILITIES

4.1 Radiological/Environmental Survey Teams

The offsite Radiological/Environmental Survey Team performs offsite radiological and environmental monitoring and sampling in accordance with Exhibit 1, "Field Monitoring Team (FMT) Checklist".

5.0 PROCEDURE

5.1 The Offsite Radiological/Environmental Survey Team shall initially report to the Radiological Assessment Coordinator (RAC) until the Environmental Assessment Command Center (EACC) is manned and activated. When the EACC is manned and activated, the Offsite Radiological/Environmental Survey Teams then report to the Environmental Assessment Coordinator (EAC) who is responsible for directing emergency teams to conduct emergency radiological and environmental monitoring outside the protected area and to conduct plume tracking.

5.2 FMT members will proceed with Exhibit 1.

6.0 REFERENCES

6.1 2000-PLN-1300.01, OCNGS Emergency Plan.

6.2 OEP-ADM-1319.02, Emergency Response Facilities and Equipment Maintenance.

6.3 EPIP-OC-.01, Classification of Emergency Conditions.

6.4 Memorandum 9502-88-0098, Field Measurement of Airborne Releases of Radioactive Material, G.M. Lodge, May 25, 1988.

7.0 EXHIBITS

7.1 Exhibit 1, "Field Monitoring Team (FMT) Checklist"

7.2 Exhibit 2, "OCNGS FMT Activation Checklist"

7.2.1 Exhibit 2A, Intentionally Left Blank

7.2.2 Exhibit 2B, "Dose Rate and Count Rate Instrument Op Check"

7.2.3 Exhibit 2C, "DC Air Sampler Op Check"

7.3 Exhibit 3, "OCNGS FMT Termination Checklist"

7.4 Exhibit 4, "Conduct of a Dose Rate Survey"

7.5 Exhibit 5, "Conduct of a Count Rate Survey"

7.6 Exhibit 6, "Conduct of an Air Sample"

7.7 Exhibit 7, "Conduct of Noble Gas Sampling"

7.8 Exhibit 8, "Conduct of Soil or Snow Sampling"

7.9 Exhibit 9, "Conduct of Vegetation Sampling"

7.10 Exhibit 10, "Conduct of Water Sampling"

7.11 Exhibit 11, "Offsite Monitoring Points"

7.12 Exhibit 12, "Plume Search Routes"

7.13 Exhibit 13, "Offsite Radiological/Environmental Survey Team Log"

7.14 Exhibit 14, "Sample Record"

7.15 Exhibit 15, "Count Rate Survey Record"

7.16 Exhibit 16, "Environmental Sample"

7.17 Exhibit 17, "Dose Rate Survey Record"

EXHIBIT 1

Field Monitoring Team (FMT) Checklist

Initials

_____ 1.0 OCGS FMTs will complete Exhibit 2, OCGS FMT Activation Checklist.

_____ 2.0 Upon direction from the EAC/RAC cease monitoring activities and complete Exhibit 3, FMT Termination Checklist" as appropriate.

3.0 Frequently monitor your SRDs. When a SRD indicates 3/4 or greater scale, record the dose on your Control Point Admission Ticket, rezero the SRD, and fill out a new ticket.

4.0 Monitor the dose rate in your vehicle. If the dose rate exceeds 2 mrem/hr at the driver or passenger locations due to field monitoring samples, notify the EACC/RAC. To determine this, conduct a dose rate survey in the vehicle cab while the vehicle is in an area of normal background.

5.0 Notify the EACC/RAC when any team member's accumulated dose approaches 1000 mrem TEDE.

6.0 If the outside temperature is less than 32°F the continuous instrument use should be limited as follows:

Temp	Continuous Operation Time
0°F - 32°F	5 minutes
-20°F - 0°F	2 minutes

Battery checks must also be performed before and after each use. If either check is not satisfactory, the measurement is not valid. The instrument should be returned to the vehicle and the batteries allowed to warm up.

7.0 Conduct surveys, air samples and biota sampling as directed by the EAC.

- Dose rate surveys are performed in accordance with Exhibit 4
- Count rate surveys are performed in accordance with Exhibit 5
- Air samples are performed in accordance with Exhibit 6
- Noble gas samples are performed in accordance with Exhibit 7
- Snow and soil samples are performed in accordance with Exhibit 8
- Vegetation samples are performed in accordance with Exhibit 9
- Water samples are performed in accordance with Exhibit 10

EXHIBIT 1
(Continued)

Field Monitoring Team (FMT) Checklist

Initials

8.0 Periodically conduct a whole body frisk and smear the surfaces of the vehicle.

- If the Beta-Gamma contamination is found to be above the following levels notify the EAC and report to the RAA or effect local decontamination and documentation as directed.

Beta Gamma	100 cpm/100cm^2 Surface area of vehicle
Beta Gamma	100 CPM above background, direct frisk of the wheels

- Vehicles, contamination control station and instruments may be decontaminated in the field by wiping down with maslin cloth taking care to fold maslin inward after each wipe. By using the count rate instrument to check the maslin after each wipe, a rough order of level of Beta-Gamma contamination may be approximated. Always make one pass with the maslin cloth. Never use the same side to decontaminate a surface. After decontamination place maslin cloth in poly bag, label and conduct a dose rate survey.

Time _____

Signature _____

EXHIBIT 2

OCNGS FMT ACTIVATION CHECKLIST

Initials

_____ 1.0 Two team members present. If a qualified team member is not available, an untrained individual may be used as a driver/assistant. The RAC or EAC must approve the individual.

> NOTE
>
> The RAC or EAC may authorize or direct team dispatch without completing one or more checklist steps.

_____ 2.0 Obtain cellular phone for primary communications labeled for your team and a Hand Held Radio for backup communications from the FMT Equipment Locker. The cell phones have adapters to plug into the cigarette lighter for power.

_____ 3.0 Contact the RAC by phone and inform him that your team is beginning activation. If RAC unavailable contact EAC.

Obtain plant status and meteorological conditions from the RAC/EAC Document on Exhibit 14. The following is a list of locations, speed dial codes and actual phone numbers used by field teams and their respective contact.

Location	Speed Dial	Phone #
RAC/ECC	01	609-971-0335
RAC/TSC	02	609-971-4156
EAC/EACC	03	732-367-8805
	*	732-370-8990
FMT "A"	04	609-457-3560
FMT "B"	05	609-457-3441
FMT "C"	06	609-457-1525
ONSITE FMT	07	609-457-3592
RCC/OSC	08	609-971-4880
EMERG.	09	911
ECC	10	609-971-4666
*Dial Manually		732-370-8990

_____ 4.0 Each team member shall obtain one TLD, and one ESRD and initiate a Control Point Admission Ticket.

_____ 5.0 Check the seals on the storage container kits. If a seal is broken, an inventory must be performed in accordance with Appendix B-1 of OEP-ADM-1319.02.

_____ 6.0 Obtain one dose rate and two count rate survey instruments and Op Check in accordance with Exhibit 2B.

EXHIBIT 2
(Continued)

OCNGS FMT ACTIVATION CHECKLIST

Initials		
_____	7.0	Obtain one DC Air Sampler and Op Check in accordance with Exhibit 2D.
_____	8.0	Obtain two water-filled 500 ml sample bottles for noble gas sampling. Fill each with water and seal tightly. Generally, filled bottles will be kept in the storage locker.
_____	9.0	Transport the following to the vehicle. 1 cellular phone 2 sets of dosimetry (one each member) from step 3.0 1 hand held radio from step 4.0 1 dose rate survey instrument from step 6.0 2 count rate survey instruments from step 6.0 1 DC Air Sampler from step 8.0 2 500 ml sample bottles from step 9.0 1 Notebook binder containing EPIP-OC-.11 with attachments and OEP-ADM-1319.02, Appendix B 1 Map of Offsite Monitoring Points. The map is contained in the notebook. 1 portable search light
_____	10.0	Place a 2ft x 2ft poly sheet on the back floor of the vehicle.
_____	11.0	Tape up poly bags on the inside of the vehicle doors to be used for contaminated waste and gloves.
_____	12.0	Turn the radio select knob on the vehicle emergency radio to "Position 1". Set the hand held radio to "Position 5". Contact the EACC or RAC for a radio check.
_____	13.0	Initiate a Survey Team Log using Exhibit 13. The log should include: • Dispatch locations and requested actions • Significant information (e.g., personnel or vehicle contamination, personnel over-exposure, requests for assistance, etc.) • Notifications of Emergency Classifications or Termination.

EXHIBIT 2
(Continued)

OCNGS FMT ACTIVATION CHECKLIST

Initials		
_____	14.0	Notify the EACC or RAC that you are ready to be dispatched. Give the EAC/RAC the names, social security numbers, and remaining dose of each team member. If remaining dose is not known for a team member, information can be obtained from the RAC/RCC at the ECC, TSC, or OSC as appropriate.
_____	15.0	Proceed to the location directed by the EACC or RAC. If for some reason communications with the RAC or EACC are interrupted, one team will proceed to the nearest downwind sampling point identified in Exhibit 11. The second team will proceed on the plume search route as determined by the wind direction and the directions in Exhibit 12. Always continue to try and establish communications with the RAC or EACC. This is the preferred method of directions for the plume search.

Time Completed _____

Signature _____

EXHIBIT 2B

Dose Rate and Count Rate Instrument Op Check

Perform the following for each of the three instruments

Initials

_____ 1.0 Record instrument serial number.

_____ 2.0 Record instrument calibration due date.

_____ 3.0 Inspect instrument for physical damage.

_____ 4.0 Inspect instrument for illegible labels.

_____ 5.0 Perform a battery check.

_____ 6.0 Obtain the button source from the lead pig within the locker. Source check the instrument for response.

_____ 7.0 If the instrument fails any of the above checks, tag the instrument as bad and obtain a spare instrument. If no spare is available, contact the EAC/RAC. Document instructions in Survey Team Log.

NOTE

DOSE RATE instruments and their detector probes are calibrated as a single unit and probes must not be interchanged with other instruments.

	Dose Rate Meter	Count Rate Meter	Count Rate Meter
Serial Number			
Cal Due Date			
Physical Damage?	YES/NO	YES/NO	YES/NO
Illegible Labels?	YES/NO	YES/NO	YES/NO
Battery Check OK?	YES/NO	YES/NO	YES/NO
Source Check OK?	YES/NO	YES/NO	YES/NO

EXHIBIT 2C

DC Air Sampler Op Check

Initials

_____ 1.0 Record instrument serial number _____.

_____ 2.0 Record instrument calibration due date _____.

_____ 3.0 Physically inspect the air sampler for physical damage.

_____ 4.0 Ensure the 2 position switch (Off-Run) is in the Off position.

_____ 5.0 Unscrew the Particulate Filter, Silver Zeolite Cartridge, and "O" rings from the air sampler head, inspect "O" rings for damage.

_____ 6.0 Install a new Silver Zeolite Cartridge ensuring the arrow on the side of the cartridge points toward the air sampler.

_____ 7.0 Install a new Particulate Filter ensuring the side of the filter which has a woven appearance is nearest to the Silver Zeolite Cartridge.

_____ 8.0 Reassemble the air sample head and screw into the Air Sampler.

_____ 9.0 Obtain the keys for the emergency monitoring vehicle.

NOTE

Keys for the Building 12 vehicle are in the monitoring kit equipment locker.

_____ 10.0 Connect the Air Sampler ON directly to the vehicle's battery terminals via bumper or grille.

_____ 11.0 Turn on the Air Sampler and enter the flow rate, _____lpm.

EXHIBIT 2C
(Continued)

DC Air Sampler Op Check

Initials

_____ 12.0 Turn off Air Sampler and disconnect from the vehicle.

_____ 13.0 Leave the DC air sampler in the vehicle.

_____ 14.0 If the air sampler does not pass the Op check, tag the instrument as bad and obtain a spare. If no spare is available, contact the EAC/RAC. Document instructions in the Survey Team Log. In the event that the DC air sampler is used, ensure the EAC/RAC is aware of the flow rate.

Signature _____

EXHIBIT 3

OCNGS FMT Termination Checklist

Initials

_____ 1.0 Transport Field Monitoring Samples to the Offsite Sample Storage Facility, designated by the EAC. Use FRH6 key. This should be the Environmental Lab (Building No. 18) on the Forked River Site.

> NOTE
>
> For Drills and Exercises return all Field Monitoring Samples to the Environmental Controls Section for disposition.

_____ 2.0 Place signed Team Logs/Inventory Forms and Data Forms with the Field Monitoring Samples.
Turn in TLD's and completed Control Point Admission Tickets to the Dosimetry Radiological Support Group.

Contact EAC/RAC to determine where to turn in dosimetry if the center has been relocated.

> NOTE
>
> After a drill, dosimetry should be returned to the Monitoring Kit Instrument Locker.

_____ 3.0 Return vehicle to OCAB parking lot, and return keys to the point of issue.

_____ 4.0 Return all the Emergency Monitoring Equipment to the Monitoring Kit Instrument Locker.

_____ 5.0 Return hand held radio to the charging rack inside the Monitoring Kit Instrument Locker.

_____ 6.0 Complete and sign all logs and checklist. Return to Emergency Preparedness.

Time Completed _____

Signature _____

EXHIBIT 4

Conduct of a Dose rate Survey

1.0 Ensure a pre-operational check has been completed for the dose rate instrument in accordance with Exhibit 2B.

2.0 Observe Cold Weather Operations Limitation described in Exhibit 1, Step 6.0.

3.0 Switch the dose rate instrument range selector switch to the highest scale that will give the operator a mid range meter reading.

4.0 Dose rate measurement should be performed approximately one meter (1m) above the ground (waist level) outside the emergency vehicle, unless directed otherwise by the RAC.

5.0 Record the survey results on Exhibit 18, Dose Rate Survey Record.

6.0 Determine if the survey location may be within the radioactive plume and advise RAC/EAC.

6.1 IF Beta Gamma (OW) measurements are less than 110 % of the Gamma (CW) measurements,

THEN dose rate measurements indicate that the plume is elevated over and/or horizontally displaced from the survey location.

6.2 Identify on Exhibit 17, Dose Rate Survey Record, that the location is not in plume.

6.3 IF Beta Gamma (OW) measurements are equal to or greater than 110% of the Gamma (CW) measurements,

THEN dose rate measurements indicate that the plume may have touched down at the Survey locations → Take an air sample and contact the RAC/EAC.

EXHIBIT 5

Conduct of a Count Rate Survey

1.0 Don surgeons gloves and obtain smear discs and sample envelopes from the Emergency Monitoring Kit.

2.0 Record Date, Time and Survey Location on sample envelope.

3.0 Wipe smear disc on horizontal surfaces to obtain a sample of 100 cm^2.

4.0 Wipe the smear disc in a lazy S pattern approximately 16 inches long,

or

Wipe smear disc in an area of approximately 4 inches by 4 inches.

5.0 If smear samples are taken from a non-horizontal surface, provide a description of the sampled surface on the smear disc envelopes.

6.0 Determine Background Count Rate by reading count rate instrument with no sample present.

NOTE

The smear sample counting area background count rate must be less than 300 counts per minute (cpm) using a count rate instrument.

NOTE

A rough order of magnitude for Dose rate conversion to CPM is count rate (CPM) = 3000 x dose rate (mR/hr).

7.0 Record the Background counts per minute (Bcpm) on Exhibit 16, Count Rate Survey Record.

8.0 Obtain the smear Gross Count Rate.

- Place detector probe within 1/2 inch of the smear disc with the sample surface toward the detector window.
- Count the smear disc.
- If activity is indicated within 15 seconds, allow the meter indicator to stabilize before recording.
- Record the maximum smear sample Gross counts per minute (Gcpm) on Exhibit 15, Count Rate Survey Record.
- Complete the appropriate data on Exhibit 15, Count Rate Survey Record.

EXHIBIT 6

Conduct of an Air Sample

1.0 Prerequisites

- The Air Sampler shall be located in a manner that will minimize cross contamination.
- All samples shall be labeled and saved for further analysis.

2.0 Set up Air Sampler if the filter and cartridge require replacement.

- Unscrew the particulate filter and Silver Zeolite Cartridge rings from the air sampler head.
- Install a new Silver Zeolite Cartridge ensuring the arrow on the side of the cartridge points toward the air sampler.
- Install a new particulate filter ensuring the side of the filter which has a woven appearance is nearest to the Silver Zeolite Cartridge.
- Reassemble the air sampler head and screw into air sampler.

NOTE

The air sampler is calibrated with both the Particulate Filter and Silver Zeolite Cartridge in place. Both must be in place even if an iodine sample has not been requested and the Silver Zeolite Cartridge will not be analyzed in the field.

3.0 Draw a 5 minute minimum air sample at 25 lpm (20-30 lpm) as indicated on the scale if possible using a watch, stopwatch, or timer to measure the time duration unless otherwise directed by the RAC/EAC. Sample based on Rad Eng. Calc. 2820-01-004.

4.0 Obtain a general area count rate with the count rate instrument and pancake probe at approx. waist level. If the background exceeds 300 CPM move to a location where the background is less than 300 CPM.

5.0 Record air sampler run time and flow rate on the Air Sample Data Collection Envelope and Exhibit 14.

6.0 Wearing protective gloves, unscrew the filter holder section of the sampler head from the Silver Zeolite cartridge holder section such that the particulate filter is held in place in the removed section.

7.0 Remove the retainer ring from the filter holder and obtain a count rate on the particulate filter by holding the front side of the filter holder against the pancake probe. Record the count rate as Gross CPM on Air Sampler Data Collection Envelope and on Exhibit 14.

8.0 Using tweezers, remove the filter from the holder. Place the filter in an Air Sample Data Collection Envelope.

EXHIBIT 6
(Continued)

Conduct of an Air Sample

9.0 Recount the filter holder without the particulate filter in place. Enter this count rate as background CPM on the Air Sample Data Collection Envelope and on Exhibit 14.

10.0 Subtract the background cpm (Bcpm) from gross cpm (Gcpm) and record as "Net cpm" on the Air Sample Data Collection Envelopes.

11.0 Measure the contact Dose Rate and record on the Air Sample Data Collection Envelope.

12.0 Retain the sample for later analysis.

NOTE
Monitor the driver and passenger area dose rates. If any area exceeds 2.0 mR/hr, notify the RAC/EAC and request guidance.

13.0 Wearing protective gloves remove the Silver Zeolite cartridge from the sampler head and place it in an Air Sample Data Collection Envelope.

14.0 Count both sides of the Silver Zeolite cartridge through the envelope. Record the higher count rate as "Gross" on the Air Sample Data Collection Envelope and on Exhibit 14.

15.0 Subtract the background cpm (Bcpm) from the gross cpm (Gcpm) and record the result as "Net cpm" on the Air Sample Data Collection Envelope.

- Measure the contact dose rate and record on the Air Sample Data Collection Envelope
- Retain the sample for later analysis.

16.0 Establish contact with the EACC/RAC.

17.0 Transmit the data from the Air Sample Data from Exhibit 14.

EXHIBIT 7

Conduct of Noble Gas Sampling

1.0 Obtain a 500 ml bottle that was prefilled with clean water. When a sample is needed, stand well away from vehicles or other obstructions (10 ft or greater), remove the cap and pour the water from the container. Cap or close the container.

2.0 Label the sample container with the date/time of collection, and location. Record the same information in the first two columns of Exhibit 15. Write "Noble Gas" in the 3rd column and leave the other columns blank.

3.0 Retain all samples for later counting and analysis.

NOTE

Monitor the driver and passenger area dose rates. If any area exceeds 2.0 mR/hr, notify the RAC/EAC and request guidance.

EXHIBIT 8

Conduct of Soil or Snow Sampling

1.0 Soil and snow sampling shall be conducted with one team member collecting samples and the other team member providing radiation monitoring for the sample collector.

2.0 Obtain sample container and trowel from Emergency Monitoring Kit.

3.0 Label container with Time, Date, Monitoring Location, Type of Sample, and Dose rate.

Example:

Sample Label

Date _____ Time: _____

Sample Type _____

Sample Location _____

Contact Dose Rate _____mr/hr _____mr/hr
(OW) (CW)

Background _____bcpm Contact count rate _____gcpm

_____
Initials

4.0 Choose a sample area free from leaves, grass and other vegetation.

5.0 Wearing protective gloves scrape approximately the top 1/2 inch of soil or snow with trowel and place into container until full. Cap container.

6.0 Perform a contact dose rate survey of container with a dose rate meter.

7.0 Record dose rate on label.

8.0 If contact dose rate is less than 0.2 mR/hr, perform a contact count rate measurement of sample container.

- Measure Background Count Rate (bcpm)
- Measure Sample Contact Count Rate (gcpm)

9.0 Complete the appropriate data on Exhibit 16.

10.0 Record the following on the sample label

- Background Count Rate bcpm
- Gross Count Rate gcpm

11.0 Save all samples for future analysis.

12.0 Surgeon's gloves should be changed after each sample is collected to prevent cross-contamination.

EXHIBIT 9

Conduct of Vegetation Sampling

1.0 Vegetation sampling shall be conducted with one team member collecting samples and the other team member providing radiation monitoring for the sample collector.

2.0 Obtain clippers and medium plastic bag from Emergency Monitoring Kit.

3.0 Label sample bag with Time, Date, Monitoring Location, Type of Sample, and Dose rate.

Example:

Sample Label

Date _____ Time: _____

Sample Type _____

Sample Location _____

Contact Dose Rate _____mr/hr _____mr/hr
(OW) (CW)

Background _____bcpm Contact count rate _____gcpm

_____
Initials

4.0 Wearing protective gloves, take as large a sample of green (living) vegetation as can be fit into bag.

NOTE

Do NOT include soil, large branches or roots.

NOTE

Always collect samples that are downwind from you; i.e., wind is blowing on your back.

5.0 Place sample in bag.

6.0 Seal the bag and perform a Contact Dose Rate.

7.0 Record Dose rate on label.

EXHIBIT 9 (Continued)

Conduct of Vegetation Sampling

8.0 If contact dose rates are less than 0.2 mR/hr, perform a contact count rate measurement of sample container.

- Measure Background Count Rate (bcpm)
- Measure Sample Contact Count Rate (gcpm)

9.0 Complete the appropriate data on Exhibit 16.

10.0 Record the following on the sample label

- Background Count Rate bcpm
- Gross Count Rate gcpm

11.0 Save all samples for future analysis.

12.0 Surgeon's gloves should be changed after each sample is collected to prevent cross-contamination.

EXHIBIT 10

Conduct of Water Sampling

1.0 Water sampling shall be conducted with one team member collecting samples and the other team member providing radiation monitoring for the sample collector.

> CAUTION
>
> Use life vest when collecting water samples from bodies of water i.e. lakes, bay, ocean.

2.0 Obtain empty plastic screw-top sample bottle and a plastic bag.

3.0 Label bag with Time, Date, Monitoring Location, Type of Sample, and Dose rate.

Example:

> Sample Label
> Date _____ Time: _____
> Sample Type _____
> Sample Location _____
> Contact Dose Rate _____mr/hr _____mr/hr
> (OW) (CW)
> Background _____bcpm Contact count rate _____gcpm
> _____
> Initials

4.0 Wearing protective gloves, remove cap, submerge bottle, rinse and discard water. Submerge bottle in water to obtain a surface sample. Take care not to disturb sediment.

> CAUTION
>
> Use caution as the bottle may now be contaminated.

5.0 Recap bottle and place in a plastic bag. Seal the bag.

6.0 Perform a Contact Dose Rate survey of the bottle through the plastic bag.

7.0 Record Dose Rate on sample label.

EXHIBIT 10 (Continued)

Conduct of Water Sampling

8.0 If contact dose rates is less than 0.2 mR/hr, perform a contact count rate measurement of sample container.

- Measure Background Count Rate bcom
- Measure Sample Contact Count Rate gcpm

9.0 Record the appropriate data on Exhibit 16.

10.0 Record the following on the sample label

- Background Count Rate bcpm
- Gross Count Rate gcpm

11.0 Save all samples for future analysis.

12.0 Surgeon's gloves should be changed after each sample is collected to prevent cross-contamination.

EXHIBIT 11

OFFSITE MONITORING POINTS

EMERGENCY SAMPLE LOCATION	N.J. STATE NO.	AZIMUTH	DISTANCE (MILES/ METERS)	LOCATION	(From OCGS Main Gate & Rt. 9) DIRECTIONS
N1	--- Crest OC-3	0°	0.65/ 1045.9	East end of old Energy Spectrum parking lot	Left onto Rt. 9, left just after intake canal, and proceed to the old site of the Energy Spectrum
N2	---	7°	1.2/ 1930.8	Intersection of Taylor Lane and Kennebec Rd.	Left onto Rt. 9, left onto Taylor Lane, proceed 0.2 mile to Kennebec Rd.
N2a	N-2 -1 Crest OC-11	2°	1.8/ 2896.2	Playground Lakeside Drive at Moose Head St.	Rt. 9 north Lakeside Drive, left onto Lakeside Dr. 3/4 miles to playground at intersection with Moose Head St.
N3	---	352°	2.5/ 4022.5	Along curb adjacent to park at intersection of Lakeside Dr. and Deer Head Lake Drive	Left onto Rt. 9 approx. 1.5 miles to Lakeside Dr., left onto Lakeside Dr. to Deer Head Lake Drive
N4	N-4 -1	354°	3.2/ 5148.8	Lacey Township Municipal Bldg. parking lot. 110 AC available	Left onto Rt. 9 to Rt. 614 (Lacey Rd.), left onto Lacey Road 1.7 miles to Lacey Township Municipal Bldg. on right
N5	N-5 -1	354°	4.21/ 6773.9	North commuter parking lot at Forked River service area on G.S. Pkwy. 110 AC available	Left onto Rt. 9 to Rt. 614 (Lacey Rd.), left onto Lacey Road to G.S. Pkwy., north on Pkwy to Forked River service area
N6	---	356.5°	4.45/ 7160	Approx. 1/3 mile west of Central Regional High School along Pinewald-Keswick Rd. at junction with G.S. Pkwy.	Left onto Rt. 9 to Rt. 614 (Lacey Rd.), left onto Lacey Rd. to G.S. Pkwy. North on Pkwy. for 2.2 miles at overpass of Pinewald-Keswick Rd. Mile Post 77.2
N10	---	3°	9.6/ 15.446	Ocean County Courthouse (EOC) Toms River, parking log. 110 AC available	Left onto Rt. 9 to Rt. 614 (Lacey Rd.), left onto Lacey Rd. to G.S. Pkwy north to Exit 81, east on Water St. for 0.5 mile to Main St., left one block to Washington St., right on Washington to 2nd left to Horner St.

EXHIBIT 11

(continued)

OFFSITE MONITORING POINTS

EMERGENCY SAMPLE LOCATION	N.J. STATE NO.	AZIMUTH	DISTANCE (MILES/ METERS)	LOCATION	(From OCGS Main Gate & Rt. 9) DIRECTIONS
N10a	---	359°	8.75/ 14.078	Left side of road before traffic light at intersection of G.S. Pkwy, Rt. 530 (Dover Rd.) and Rt.9	Left onto Rt. 9, continue left at Rt. 166 junction to G.S. Pkwy. Interchange approaching intersection of Rt. 530 (Dover Rd.), left to roadside area before intersection.
N20	N-20	351.5°	10.8/ 17,377	Rt. 37, DOT Maintenance Yard West of Mule Rd. South side Rt. 37	Left onto Rt. 9 to Rt. 614 (Lacey Rd.) to G.S. Pkwy., North to Exit 82W, 1.9 mile west to DOT Maintenance Yard on left using jug handle west of Mule Road
NNE1	--- CREST OC-6	19°	0.45/ 724.0	Rt. 9 mile mrkr 80 at O.C. intake canal	Left onto Rt. 9 to intake canal bridge at mile marker 80
NNE1a	---	23°	0.7/ 1126.3	Intersection of Biscayne Dr. and Nantucket Dr.	Left onto Rt. 9, 0.7 mile to traffic light at Beach Blvd., right on Beach Blvd. to Biscayne Dr. (1st right) to Nantucket Rd.
NNE2	NNE-2 -1	23.5°	1.7/ 2735.3	Forked River State Marina SW corner of parking lot. 110 AC available	Left onto Rt. 9, 1.6 mile to Forked River State Marina
NNE3	---	24.5°	2.5/ 4022.5	Intersection of Rt. 9 and Sunrise Blvd.	Left onto Rt. 9, 2.6 miles to Sunrise Blvd.
NNE4	---	27°	3.7/ 5953.3	Intersection of Rt. 9 and Laurel Blvd. parking lot	Left onto Rt. 9, 3.9 miles to Laurel Blvd.
NNE5	---	26°	4.6/ 7401.4	Intersection of Rt. 9 and WOBM access road	Left onto Rt. 9, 4.9 miles to WOBM radio station access road
NNE6	---	24°	5.6/ 9010.4	Rt. 9, Pinewald Substation, 0.1 miles North of Serpentine Dr.	Left onto Rt. 9, 6.2 miles on right, 0.1 miles North Serpentine Dr. at large metal utility poles
NNE6a	---	32.5°	6.8/ 10,941	Edge of Bay, Bay Blvd.	Left onto Rt. 9, 6.2 miles to Bay Blvd. east on Bay Blvd. to end of road

EXHIBIT 11

(continued)

OFFSITE MONITORING POINTS

EMERGENCY SAMPLE LOCATION	N.J. STATE NO.	AZIMUTH	DISTANCE (MILES/ METERS)	LOCATION	(From OCGS Main Gate & Rt. 9) DIRECTIONS
NNE7	NNE-7-1	23.5°	6.0/ 9654.0	Bayville First Aid, Rt. 9, Bayville, 110 AC available	Left onto Rt. 9, approx. 6.4 miles to Bayville, Rt. 9 @ Station Blvd.
NNE10	---	21.5°	7.55/ 12,148	Intersection of Rt. 9, Veeder Lane, Ocean Gate Dr. & Mill Creek Rd. parking lot	Left onto Rt. 9, 7.6 miles to multi-point intersection, just past MacDonald's to parking area near intersection on right
NNE10a	---	22.5°	8.65/ 13,918	Intersection of Chelsea Ave and Ocean Gate Drive	Left onto Rt. 9, 7.6 miles, go past MacDonald's, right on Ocean Gate Dr. to Chelsea Ave (near end)
NNE10b	---	16.5°	9.9/ 15,929	Intersection of Rt. 37 and Vaughn Ave, lot on first jug-handle exit from Rt. 37	Left onto Rt. 9 to Rt. 614 (Lacey Rd.) to G.S. Pkwy. to Rt. 37 (Exit 82) east approx. 2.9 miles to Vaughn Ave intersection right jughandle
NNE20	---	27.5°	10.5/ 16,895	Bay Bridge Inn parking lot near Rt. 37 and west end of bridge at west shore of Barnegat Bay	Left onto Rt. 9 to Rt. 614 (Lacey Rd.) to G.S. Pkwy., Exit 82, to Rt. 37 east to bridge, right into parking lot
NE1	---	47°	0.3/ 482.7	Intersection of Rt. 9 and farm road	Left onto Rt. 9, 0.2 miles to first right at farm road
NE1a	---	42°	0.9/ 1448.1	#732 Bermuda Dr. near Nantucket Rd.	Left onto Rt. 9 to first traffic light, right onto Beach Blvd. to Bermuda Dr., right to end of road. Address #732. Just past Nantucket Rd.
NE2	---	41°	1.6/ 2574.4	Captain's Inn, Lacey Rd. parking lot at rear	Left onto Rt. 9 to second traffic light, right onto Lacey Rd. to Captain's Inn (near end of road)
NE3	--- CREST OC-12	42.5°	2.4/ 3861.6	Game Farm Ocean Residential Group Center	Left onto Rt. 9, beyond second traffic light, right onto Game Farm Rd. (concrete parking lot near buildings)

EXHIBIT 11

(continued)

OFFSITE MONITORING POINTS

EMERGENCY SAMPLE LOCATION	N.J. STATE NO.	AZIMUTH	DISTANCE (MILES/ METERS)	LOCATION	(From OCGS Main Gate & Rt. 9) DIRECTIONS
NE4	---	51°	3.1/ 4987.9	End of Sail Dr. near intersection of Sunrise Blvd.	Left on Rt. 9, north 2.6 miles to Sunrise Blvd., turn right, go approx. 1.4 miles to Sail Dr. (at bend in road), left on Sail Dr.
NE5	NE-5-1	47°	4.8/ 7723.2	Laurel Blvd. Address #1063. (NJ Location #1068)	Left on Rt. 9, 3.9 miles (past 2nd traffic light) to Laurel Blvd., right on Laurel Blvd. at curve (at street light,) address #1063
NE10	---	44°	9.5/ 15,286	Intersection of Central Ave. and 14th St., Seaside Park	Left onto Rt. 9, left at 2nd traffic light onto Rt. 614 (Lacey Rd.) to G.S. Pkwy., north to Exit 82E, east onto Rt. 37 over bridge to Rt. 35 south (Central Ave), right onto Central Ave. to intersection of Central Ave. and 14th St.
NE20	---	37°	11.8/ 18,986	Near intersect-ion of Rt. 37 access road and Rt. 35 north (Central Ave.)	Left on Rt. 9, left at 2nd traffic light on Rt. 614 (Lacey Rd.) to G.S. Pkwy., north to Exit 82 east on Rt. 37, cross bridge to Rt. 35 north, exit. At first traffic light, turn right, "U-Turn" onto service rd. area
ENE1	---	70°	0.25/ 402.3	Yellow N.J. Natural Gas Co. marker approx. 100 yds. north of main entrance	Left onto Rt. 9, approx. 25 yds. south of North Gate access road on left
ENE2a	---	67°	1.15/ 1850.4	Intersection of Tampa Rd. and Sandy Hook Dr. (#701 Tampa Rd.)	Left onto Rt. 9 to 1st traffic light (Beach Blvd.), right onto Beach Blvd. to Forked River Bridge. Just over bridge turn right onto Sandy Hook Dr. to second left (Tampa Rd.)
ENE2	ENE-CREST OC-4	59.5°	1.15/ 1850.4	Beach Blvd. to left side of road after crossing Forked River Bridge	Left onto Rt. 9 to 1st traffic light (Beach Blvd.), right onto Beach Blvd. to southeast end of Forked River Bridge

EXHIBIT 11
(continued)
OFFSITE MONITORING POINTS

EMERGENCY SAMPLE LOCATION	N.J. STATE NO.	AZIMUTH	DISTANCE (MILES/ METERS)	LOCATION	(From OCGS Main Gate & Rt. 9) DIRECTIONS
ENE3	---	70°	2.3/ 3700.7	Intersection of Beach Blvd. and Tamiami Road	Left on Rt. 9 to 1st traffic light (Beach Blvd.), right onto Beach Blvd., over Forked River Bridge to next bridge (wooden) continue over bridge to right fork (Tamiami Rd.)
ENE4	---	58°	3.7/ 5953.3	Parking lot at Sunrise Beach Club	Left on Rt. 9 to Sunrise Blvd., right on Sunrise to Capstan Dr. on left. Capstan Dr. straight to Sunrise Beach Club
ENE7	---	67°	6.3/ 10,137	Island Beach State Park service area parking lot between north and south swimming area parking lots	Left onto Rt. 9 to 2nd traffic light, Rt. 614 (Lacey Rd.), left on Lacey Rd. to G.S. Pkwy. North on Pkwy. to Exit 82E, east on Rt. 37 across bridge to Rt. 35 south (Central Ave.) to Is. Beach State Park, 3.5 mi. south of park entrance gate to swimming area parking lots
ENE10	---	60°	7.35/ 11,826	Island Beach State Park, 2.5 miles south of park entrance at chained access road, on right	Left on Rt. 9 to 2nd traffic light, Rt. 614 (Lacey Road), left on Lacey Rd. to G.S. Pkwy North on Pkwy. to Exit 82E, east on Rt. 37 across bridge to Rt. 35 south (Central Ave.) to Island Beach State Park, 2.5 miles south of park entrance gate to intersection of chained access road on right
E1	--- CREST OC-7	82°	0.3/ 482.7	Opposite Main Gate on Rt. 9	Exit Main Gate onto Rt. 9
E1a	---	87.5°	0.85/ 1367.7	The Farm Area Northeast corner of dredge spoils basin	Left onto Rt. 9, right at first farm road to second left to corner of dredge spoils basin. Key for gate lock in FMT vehicle
E2	---	87°	1.6/ 2574.4	Intersection of Albatross Ct. and Orlando Dr.	Left onto Rt. 9, right at 1st traffic light to Forked River Bridge, cross bridge to Elks Club, right on Club House Dr., 4 blocks to Orlando Dr., left on Orlando Dr. to Albatross Ct. (second left)

EXHIBIT 11

(continued)

OFFSITE MONITORING POINTS

EMERGENCY SAMPLE LOCATION	N.J. STATE NO.	AZIMUTH	DISTANCE (MILES/ METERS)	LOCATION	(From OCGS Main Gate & Rt. 9) DIRECTIONS
E7	---	94.5°	5.9/ 9493.1	Old Coast Guard Station Watch Tower, Island Beach State Park 110AC	Left onto Rt. 9, left at 2nd traffic light onto Rt. 614 (Lacey Rd.) to G.S. Pkwy., north to Exit 82E, east on Rt. 37 to Rt. 35 south (Central Ave.) to Is. Beach State Park, to 7 miles south of entrance gate to station on left
ESE1	---	111°	0.3/ 482.7	Yellow marker (NJ Natural Gas Co.) 0.1 mile south of O.C. Main Gate	Right onto Rt. 9, approx. 0.1 mile south of O.C. Main Gate
ESE1a	ESE-1-1	111°	0.8/ 1287.2	Fork area formed at intersection Bay Pkwy. and Dock Ave. Willow also intersects here	Right onto Rt. 9, 0.5 mile, left on Bay Pkwy. to intersection with Willow and Dock Avenues
ESE2	--- CREST OC-14	109.5°	1.85/ 2976.7	End of Bay Pkwy. at Barnegat Bay	Right onto Rt. 9, 0.5 mile, left on Bay Pkwy. to end of street at Barnegat Bay
ESE7	---	109°	6.3/ 10,137	Island Beach State Park southern end of paved park road	Left onto Rt. 9 to 2nd traffic light, Rt. 614 (Lacey Rd.), left onto Lacey Rd. to G.S. Pkwy. North on Pkwy. to Exit 82E, east on Rt. 37 across bridge to Rt. 35 south (Central Ave) to Island Beach State Park; go 8.2 miles south of park entrance to southern end of paved road
SE1	---	126°	0.36/ 579.2	Rt. 9, south of South Access Rd., south of discharge canal bridge	Right onto Rt. 9, over discharge canal bridge, just past South Access Road
SE1a	--- OC-5	140°	0.5/ 804.5	Southeast corner of Bay Pkwy., along Rt. 9, next to residence at 2 Bay Parkway	Right onto Rt. 9, left on Bay Parkway

EXHIBIT 11

(continued)

OFFSITE MONITORING POINTS

EMERGENCY SAMPLE LOCATION	N.J. STATE NO.	AZIMUTH	DISTANCE (MILES/ METERS)	LOCATION	(From OCNGS Main Gate & Rt. 9) DIRECTIONS
SE2	---	130°	1.7/ 2735.3	South end of Shore Dr. and on Barnegat Bay, Waretown	Right onto Rt. 9, approx. 0.75 mile, left onto Main St., 0.4 mile to Lighthouse Dr., left onto Lighthouse Dr. to Shore Dr., right onto Shore Dr. to end of Shore Dr.
SE7	SE-	127°	6.3/ 10,137	Across the street from the Coast Guard Station on Bayview Ave., Barnegat Light Borough	Right onto Rt. 9 to intersection of Rt. 72, east onto Rt. 72 to Long Beach Blvd., left onto Long Beach Blvd., left onto 6th St. to Bayview Ave., left onto Bayview Ave. and across the street from the Coast Guard Station
SSE2a	---	164°	1.6/ 2574.4	Waretown Vol. Fire Co.	Right onto Rt. 9, 1.6 miles, right onto Rt. 532, 1 block, building on left
SSE2	SSE-2-1	154°	1.55/ 2494.0	Area east side of Main St. and south of Skippers Blvd.	Right onto Rt. 9, 0.75 mile, left onto Main St., 0.75 mile to just past intersection with Skippers Blvd.
SSE3	SSE3 Crest OC-2	166°	1.7/ 2735.3	Township of Ocean Municipal Building Coraliss and Railroad Ave.	Township of Ocean Municipal Building parking lot Route 9 to Rout 532. West on Route 532 to Coraliss St. Left on Coraliss to Railroad Ave.
SSE4	---	164°	2.65/ 4263.9	Lagoon (BBCA Recreation Area) near Bonita Blvd.	Right onto Rt. 9, 2.2 miles, left onto Barnegat Beach Dr., 0.6 mile, right on Lagoon View Rd., 1-1/2 blocks to area on left next to lagoon
SSE10	---	153°	8.3/ 13,355	Intersection south Anchor St. with Harvey Cedars Water Stand Pipe	Right onto Rt. 9 to intersection of Rt. 72, east onto Rt. 72 to intersection of Long Beach Blvd., left onto Long Beach Blvd. to intersection of West 80th St. to intersection with S. Anchor St. and Harvey Cedars Water Stand Pipe

EXHIBIT 11

(continued)

OFFSITE MONITORING POINTS

EMERGENCY SAMPLE LOCATION	N.J. STATE NO.	AZIMUTH	DISTANCE (MILES/ METERS)	LOCATION	(From OCGS Main Gate & Rt. 9) DIRECTIONS
S2	--- CREST OC-15	184°	1.6/ 2574.4	0.7 mile west of Rt. 9 on Rt. 532	Right onto Rt. 9, right onto Rt. 532, 0.7 mile just beyond residence #172 and dirt lane
S3	S-3 -1	178°	2.3/ 3700.7	Waretown Substation	Right onto Rt. 9, 2.5 miles, 10 yards in from Rt. 9, pole No. R 144 Z, JC 83. Residence #13
S3a	---	182.5°	2.6/ 4183.4	Along Rt. 9, Waretown junction	Right onto Rt. 9, 2.9 miles, pole #BT 1545 and 4" x 4" timber with gas pipeline leakage tester attached
S4	---	176°	3.2/ 5148.8	Pebble Beach Water Tower	Right onto Rt. 9, 3.2 miles, left onto Seneca Blvd. to intersection of Eighth St. and Water Tower
S5	S-5 -1	187°	4.45/ 7160.0	Roadside area, Barnegat Service Pole #27 on East Bay Ave.	Right onto Rt. 9, 4.8 miles, left on East Bay Ave., 0.6 miles, to intersection of Lower Shore Road.
S7	---	183°	6.3/ 10,137	End of Taylor Lane at gate	Right onto Rt. 9, 6.2 miles, left onto Taylor Lane (dirt road), 1.6 miles to end of road at gate
S10	---	186°	9.65/ 15,527	Intersection of Bay Ave.	Right onto Rt. 9 to Rt. 72, east on Rt. 72 for 2.5 miles, turn left, go 0.2 mile to intersection of Bay Ave.
S20	---	169°	10.65/ 17,136	Surf City Stand Pipe	Right onto Rt. 9 to Rt. 72, east on Rt. 72 to end at Long Beach Blvd., left onto Long Beach Blvd., left onto N. 14th St. to Surf City Water Pipe on right
SSW2	---	210°	1.7/ 2735.3	Intersection of Rt. 532 and Laurelwyck Dr.	Right onto Rt. 9 to right on Rt. 532 (Wells Mills Rd.), 1.3 miles to intersection on left
SSW4	---	205.5°	3.45/ 5551.1	End of Rose Hill Rd. at cemetery	Right onto Rt. 9, 4.4 miles to right on Rose Hill Rd., one mile to cemetery

EXHIBIT 11

(continued)

OFFSITE MONITORING POINTS

EMERGENCY SAMPLE LOCATION	N.J. STATE NO.	AZIMUTH	DISTANCE (MILES/ METERS)	LOCATION	(From OCNGS Main Gate & Rt. 9) DIRECTIONS
SSW5a	---	210.5°	4.5/ 7240.5	Opposite G.S. Pkwy Maintenance Area on Rt. 554, east of Garden State Parkway	Right onto Rt. 9 to third traffic light. Right on Rt. 554 (Bay Ave.) to Parkway entrance area
SSW5	---	193.5°	4.35/ 6999.2	Barnegat Township Municipal Bldg.	Right onto Rt. 9, 4.8 miles, right on Rt. 554 (Bay Ave.) 50 yards on right
SSW7	---	197°	5.8/ 9332.2	Rt. 9 and Taylor Lane	Right onto Rt. 9, 6.2 miles, left onto entrance of Taylor Lane
SSW10	---	199°	7.5/ 12,068	Southern Reg'l High School	Right onto Rt. 9, 8.2 miles, right onto parking lot north of buildings
SSW10a	---	200°	9.0/ 14,481	Entrance to Atlantic City Electric Co. substation on Rt. 9	Right onto Rt. 9, 10 miles to paved entrance of substation on left side of road
SSW20	---	201°	11.0/ 17,699	Dinner Point dr. Staffordville	Right onto Rt. 9, 11.9 miles to Staffordville, left onto Dinner Point Dr., 25 yds. on left side of road
SW2	--- CREST OC-8	221°	1.8/ 2896.2	Ocean County Cemetery on Rt. 532	Right onto Rt. 9 to first traffic light, right onto Rt. 532 (Wells Mills Rd.), 1.75 miles to cemetery
SW3	---	227.5°	2.15/ 3459.5	Intersection of Rt. 532 and G.S. Pkwy.	Right onto Rt. 9, right onto Rt. 532 (Wells Mills Rd.) to intersection with G.S. Pkwy.
SW4	SW-4-1	219°	3.45/ 5551.1	Barnegat Toll booth on G.S. Pkwy. 110 AC	Right onto Rt. 9, right onto Rt. 532 (Wells Mills Rd.) to G.S. Pkwy. south, right side of road just beyond toll booth near telephone booth.
SW5	---	217°	4.5/ 7240.5	Parking area between 1st and 2nd Sts. west of G.S. Pkwy. exit ramp, 110 AC	Right onto Rt. 9 to Rt. 554 Bay Ave. Right onto Rt. 554 to first right after G.S. Pkwy. exit (First St.)

EXHIBIT 11

(continued)

OFFSITE MONITORING POINTS

EMERGENCY SAMPLE LOCATION	N.J. STATE NO.	AZIMUTH	DISTANCE (MILES/ METERS)	LOCATION	(From OCGS Main Gate & Rt. 9) DIRECTIONS
SW7	---	228.5°	7.2/ 11,585	Intersection of Meadow Rd. and Rt. 72 at Fawn Lakes	Right onto Rt. 9, right onto Rt. 532 (Wells Mills Rd.) to G.S. Pkwy. south; south to Exit 67 onto Rt. 554 west to 72 east to Meadow Rd. at Fawn Lakes
SW10	---	229°	8.9/ 14,320	Intersection of Hay Rd. and Micaja's Rd. NOTE: unimproved dirt road	Right onto Rt. 9, south to Rt. 72, west onto Rt. 72. Approx. 100 yds. past G.S. Pkwy. intersection to Recovery Rd. on south side of Rt. 72, right onto Hay Rd. Approx. 3 miles to Micaja's Rd.
SW20	---	214.5°	13.2/ 21,239	Intersection of Rt. 539 and G.S. Pkwy.	Right onto Rt. 9, right onto Rt. 532 to G.S. Pkwy. Take Pkwy. south to Exit 58 (Tuckerton) and make right onto Rt. 539. Park along right side of road
WSW1	--- CREST OC-9	249°	0.3/ 482.7	Southwest corner of O.C. substation, 110 AC	Right onto Rt. 9, over discharge canal bridge, right on South Access Road to substation
WSW2	---	247.5°	1.55/ 2494.0	G.S. Pkwy. picnic area	Left onto Rt. 9, left on Rt. 614 (Lacey Rd.) to G.S. Pkwy. Take pkwy. north to Forked River service area on left. Make U-turn and go south into picnic area on left at mile marker 71.5
WSW3	--- CREST OC-1	240°	2.5/ 4022.5	Ocean County Voc. School	South on Rt. 9, right on Rt. 532 0.6 mi. beyond G.S. Pkwy. on left
WSW4	WSW-4-1	251.5°	3.75/ 6033.5	Intersection of Rt. 532 and Bryant Rd.	South on Rt. 9, right onto Rt. 532, continue 4.4 miles to dirt road on right (Bryant Rd.) just before steel guard rail
WSW5	---	255°	4.35/ 6999.2	Intersection of Rt. 532 and dirt road	Right on Rt. 9, right onto Rt. 532, continue 4.85 miles to dirt road on right

EXHIBIT 11

(continued)

OFFSITE MONITORING POINTS

EMERGENCY SAMPLE LOCATION	N.J. STATE NO.	AZIMUTH	DISTANCE (MILES/ METERS)	LOCATION	(From OCNGS Main Gate & Rt. 9) DIRECTIONS
WSW6	---	254°	5.3/ 8527.7	Junction Rt. 532 and Rt. 611 (Brookville Rd) opposite Southern Ocean Landfill entrance	Right on Rt. 9, right onto Rt. 532, 6 miles to junction of Rt. 611 (Brookville Rd.) on left opposite Landfill entrance
WSW10	---	252°	7.5/ 12,068	Intersection of Rt. 532 and Rt. 72	Right onto Rt. 9, right onto Rt. 532 to intersection of Rt. 72 (Barnegat Rd.)
WSW20	---	243°	11.45/ 18,423	End of Rt. 608 (Simm Place Rd.) at gate	Right onto Rt. 9, right onto Rt. 532. At intersection of Rt. 532 and Rt. 72 and Rt. 610 go straight on Rt. 610 to intersection of Rt. 539, turn left, 1 mile to Rt. 608, stop at end of road.
W2	---	270°	1.25/ 2011.3	G.S. Pkwy. right side grass area at mile marker 72.2	Left on Rt. 9 to 2nd traffic light, left on Rt. 614 (Lacey Rd.) to G.S. Pkwy. north to service area, turn south on Pkwy. to mile marker 72.2
W2a	W-2-1	269°	1.3/ 2091.7	G.S. Pkwy. picnic area at mile marker 72.1	Left onto Rt. 9 to 2nd traffic light, left on Rt. 614 (Lacey Rd.) to G.S. Pkwy. north to service area, turn south on Pkwy. to mile marker 72.1
W7	---	259°	6.7/ 10,780	0.6 mile north of Rt. 532 on Jones Rd.	Right on Rt. 9 to 1st traffic light (Rt. 532), right on Rt. 532 through intersection with Rt. 611 (Brookville Rd.) 1.2 miles to dirt access road on right (Jones Rd.), continue 0.6 mile to fork
W10	---	260°	9.15/ 14,722	Intersection of Rt. 72 (Barnegat Rd.) and Rt. 539 (Warren Grove - Whiting Rd.)	Right on Rt. 9 to Rt. 532, right on Rt. 532 to Rt. 72 (Barnegat Rd.). North on Rt. 72 to intersection with Rt. 539 (Warren Grove - Whiting Rd.)

EXHIBIT 11
(continued)
OFFSITE MONITORING POINTS

EMERGENCY SAMPLE LOCATION	N.J. STATE NO.	AZIMUTH	DISTANCE (MILES/ METERS)	LOCATION	(From OCGS Main Gate & Rt. 9) DIRECTIONS
W20	---	276°	14.0/ 22,526	Intersection of Rt. 72 (Barnegat Rd.) and Rt. 532	Right on Rt. 9 to Rt. 532, turn right onto Rt. 532 to Rt. 72 north. Approx. 7.3 miles to left fork junction with Rt. 532
WNW1	--- CREST OC-16	284°	0.6/ 965.4	Forked River Met Tower	Left on Rt. 9, first left after intake canal, travel west past the old site of the Energy Spectrum until 230V highline. Turn right onto dirt road. Unlock gate at south branch of Forked River, (key with Met Tower keys) continue across bridge and follow curve to the right. Turn right at second road (directly west of Met Tower) and continue to tower sight.
WNW2	---	291°	1.35/ 2172.2	G.S. Pkwy., right side at mile marker 72.4	Left on Rt. 9 to 2nd traffic light, left on Rt. 614 (Lacey Rd.) to G.S. Pkwy. north to service area, turn south on Pkwy. to mile marker 72.4
WNW10	---	285°	9.7/ 15,607	Rt. 539 (Warren Grove - Whiting Rd.) where it crosses over Chamberlain Brook	Right on Rt. 9 to 1st traffic light, right on Rt. 532 to Rt. 72, right on Rts. 71/532 to Rt. 539 (Warren Grove - Whiting Rd.), north on Rt. 539, approx. 3.3 miles to Chamberlain Brook
NW2	---	322.5°	1.7/ 2735.3	G.S. Pkwy. mile marker 73.0	Left on Rt. 9 to 2nd traffic light, left on Rt. 614 (Lacey Rd.) to G.S. Pkwy. north to service area, turn south on Pkwy. to mile marker 73.0
NW6	---	322°	5.95/ 9573.6	Rt. 614 (Lacey Rd.) 0.1 mile down dirt road (west of Cranberry Bog)	Left on Rt. 9 to 2nd traffic light, left on Rt. 614 (Lacey Rd.) to mile marker 7 (3.2 mi. west of G.S. Pkwy.), dirt access road on left after mile marker 7

EXHIBIT 11

(continued)

OFFSITE MONITORING POINTS

EMERGENCY SAMPLE LOCATION	N.J. STATE NO.	AZIMUTH	DISTANCE (MILES/ METERS)	LOCATION	(From OCGS Main Gate & Rt. 9) DIRECTIONS
NW10	---	314°	8.7/ 13,998	Intersection of Rt. 614 (Lacey Rd.) and Good Luck Rd.	Left on Rt. 9 to 2nd traffic light, left on Rt. 614 (Lacey Rd.) to mile marker 5 (5.3 mi. west of G.S. Pkwy.) at Good Luck Rd. intersection
NW20	---	317°	13.3/ 21,400	Town of Whiting, junction at RR tracks and Whiting - Lacey Rd.	Left on Rt. 9 to 2nd traffic light, left on Rt. 614 (Lacey Rd.), past Bamber Lake to Town of Whiting (RR tracks)
NNW3	---	340°	2.77/ 4449	G.S. Pkwy. mile marker 74.4	Left on Rt. 9 to 2nd traffic light, left on Rt. 614 (Lacey Rd.) to G.S. Pkwy., north to service area (1/2 mile) on left, enter service area, turn south on Pkwy. to mile marker 74.4
NNW4	---	348°	3.5/ 5631.5	Intersection of Rt. 614 (Lacey Rd.) and G.S. Pkwy.	Left onto Rt. 9, left at 2nd traffic light on Rt. 614 (Lacey Rd.) to intersection of G.S. Pkwy.
NNW5	---	331°	4.65/ 7481.9	Roadside at Pole #BT4112 at Rt. 614 (Lacey Rd.) at Deep Hollow Creek (intermittent stream)	Left onto Rt. 9, left at 2nd traffic light onto Rt. 614 (Lacey Rd.), 1.7 miles west of G.S. Pkwy.
NNW10	---	339°	7.9/ 12,711	Just before intersection of Pinewald - Keswick Rd. and Rt. 530 (Dover Rd.) on rt.	Left onto Rt. 9, left at Rt. 618 (Central Pkwy. opposite Butler Blvd.) to Rt. 530 (Dover Rd.)
NNW20	---	342°	12.55/ 20,193	Intersection of Rt. 37 and Northampton Rd.	Left onto Rt. 9, left at 2nd traffic light onto Rt. 614 (Lacey Rd.) to G.S. Pkwy., north to Exit 82, west on Rt. 37, 3.75 miles from Pkwy. exit, turn right to offstreet parking

EXHIBIT 12

PLUME SEARCH ROUTES

1. If the wind is from the north/northeast, proceed south from the plant on Route 9 to Route 72. West on Route 72 to Route 539 follow Route 539 north to Lacey Road, follow Lacey road to Route 9, then return to the plant on Route 9.
2. If the wind is from the south/southeast, proceed north from the plant on Route 9 to Route 530 (South Toms River), follow Route 530 to Route 539, follow Route 539 south to Route 72, follow Route 72 east to Route 554, continue east on Route 554 to Route 9 in Barnegat, follow Route 9 north to the plant.
3. If the wind is from the southwest, proceed north on Route 9 to Ocean Gate; however, DO NOT proceed to Seaside Heights/Island beach State Park until communications have been established with the EAC. Proceed to Seaside Heights and Island Beach State Park ONLY when directed to do so by EAC.
4. If the wind is from the northwest, proceed south from the plant on Route 9 to Route 72 at Manahawkin, east on Route 72 to Long Beach Boulevard on Long Beach Island, proceed north on Long Beach Boulevard to Barnegat Lighthouse State Park.

NOTE

Plume searches should be conducted while driving at no more than 30 mph. The location of the plume edges and centerline, along with the magnitude of the open and closed window readings at the plume centerline should be recorded and transmitted to the RAC/EAC. Unless otherwise directed, the plume search should be conducted with the dose rate instrument detector held outside the vehicle window.

EXHIBIT 13

OFFSITE RADIOLOGICAL/ENVIRONMENTAL SURVEY TEAM LOG

Date: _____ CHRONOLOGY OF EVENTS Team Members: _____

Team: _____ _____

TIME	EVENT
_____	Called the RAC/EAC (see 3.0 for numbers) and Plant Status and MET conditions are as follows:

An (UE/A/SAE/GE) was declared at _____ on _____
(Circle One) (Time-24 Hr Clock) (Date)

There is (No) (A Controlled) (An Uncontrolled)
(Circle One)

(RADIOLOGICAL) (NON-RADIOLOGICAL) Release in Progress.
(Circle One - If Appropriate)

Wind Direction from: _____ °/Wind Speed: _____MPH
(Compass Point)

PAGE ____ OF ____ PAGES

EXHIBIT 13
(Continued)

OFFSITE RADIOLOGICAL/ENVIRONMENTAL SURVEY TEAM LOG

CHRONOLOGY OF EVENTS

TIME	EVENT

EXHIBIT 13
(Continued)

OFFSITE RADIOLOGICAL/ENVIRONMENTAL SURVEY TEAM LOG

CHRONOLOGY OF EVENTS

TIME	EVENT

Signed: _____
Team Member

PAGE ____ OF ____ PAGES

EXHIBIT 14

Sample Record

TEAM: _____ Date: _____

			SURVEY		AIR SAMPLE				
#	Time	Location	Window Closed mR/hr	Window Open mR/hr	Background cpm	Particulate Gross cpm	Silver Zeolite Gross cpm	Flow Rate lpm	Run Time Min
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

Signed: _____
Team Member

EXHIBIT 15

COUNT RATE SURVEY RECORD

Date: _____

Team: _____

TIME 24 HR CLOCK	SAMPLE LOCATION DESCRIPTION	COUNT RATES	
		GROSS (gcpm)	BKGD (bcpm)

SIGNED: _____
Team Member

EXHIBIT 16

ENVIRONMENTAL SAMPLE

Date: _____

		DOSE RATES-MR/HR		COUNT RATE	cpm
TIME 24 HR CLOCK	SAMPLE LOCATION DESCRIPTION	OPEN WINDOW (OW) BETA - GAMMA	CLOSED WINDOW (CW) GAMMA	(bcpm) BACKGROUND	GROSS (gcpm) COUNT RATE

SIGNED: _____
Team Member

EXHIBIT 17

D O S E R A T E S U R V E Y R E C O R D

Date:_____ Team Members:_____ Instrument Cal Due Date:_____

Team:_____ _____ Instrument Beta Correction Factor:_____

TIME (24 HR CLOCK)	SAMPLE LOCATION DESCRIPTION	INSTRUMENT MODEL/SERIAL #	DOSE RATES--mR/hr		IS (ow) READING >110% OF (cw) READING?	
			OPEN WINDOW (ow) BETA-GAMMA	CLOSED WINDOW (cw) GAMMA	YES	NO

NOTE: IF (YES), THEN SURVEY LOCATION MAY BE WITHIN PLUME

TAKE AN AIR SAMPLE CONTACT RAC/EAC.

SIGNED:_____ Reviewed:_____/_____
Team Leader Rad Con Coordinator

AmerGen An Exelon/British Energy Company	OYSTER CREEK EMERGENCY PREPAREDNESS IMPLEMENTING PROCEDURE	Number EPIP-OC-.25
Title EMERGENCY OPERATIONS FACILITY (EOF)		Revision No. 24
Applicability/Scope Applies to work at Oyster Creek	Usage Level 1	Responsible Department Emergency Preparedness
This document is within QA plan scope 50.59 Reviews Required	X Yes ___ No ___ Yes X No	Effective Date (06/25/01) 07/05/01

Prior Revision 23 incorporated the following Temporary Changes:

N/A

This Revision 24 incorporates the following Temporary Changes:

N/A

List of Pages (all pages rev'd to Rev. 24)

	Signature	Concurring Organization Element	Date
Originator		EP Coord.	6/22/01
Concurred By		Plant Manager	6/22/01
Approved By	FOR J. GRUSZEWSKI	Manager Emergency Preparedness	6/25/01

DOCUMENT HISTORY

REV	DATE	ORIGINATOR	DESCRIPTION OF CHANGE
10	06/94	A. Smith	Insert step to make sure breaker on generator is open for testing purposes only.
11	09/94	A. Smith	Revise NRC Exhibit 1B to include NUREG 1471 requirements. Clarify exhibit 4, 4B, 4C for better flow. Exhibit 6 generator operation include manufactures updates for output. Add Exhibit 13 Media Access.
12	02/95	A. Smith	50-54.x requirements added as an exhibit 14 as is in Procedures EPIP-OC-.02 and EPIP-OC-.26. Provide Media Access during Security Driven Events. Assign GPU rep. to assist BNE with Tech. Info. for PAR.
13	07/95	A. Smith	Delete "Bullets" from Communications Req. Correct EPIP-OC-.29 to read EPIP-COM-.45. Update EOF Layout Diagram. Add note clarifying North Gate usage. Update Berkeley RAA Title.
14	12/95	A. Smith	Clarify Authorization Form for request from deviation from requirements.
15	04/96	A. Smith	Remove IDT Terminal Instructions and PCS Data Trent instructions. Remove operating procedure for EOF Back Up Power. Remove EOF Layout Relocate Frisker Adjust exhibit numbers to reflect changes
16	10/96	T. Blount	Change PAR guide & logic diagram to make Evacuation Preferred recommendation, provided direction to perform following notification for Off-site Protective Actions. Deleted reference to AEOF. Remove Ex 13-Procedure deviations, clarified EP Rep's duties.
17	06/97	A. Smith	Reflect recent improvements in technology and incorporate communications activities from EPIP-OC-04 Comm. & Recordkeeping for better procedure flow. Add notes for PAR beyond 10 mile EPZ.
18	10/97	A. Smith	Update Area Codes.
19	05/98	A. Smith	Clarify offsite notifications, clarify frisking at EOF.
20	02/99	A. Smith	EPIP-COM-.44 and EPIP-COM-.45 have been changed to Oyster Creek site specific procedures and the new numbers are EPIP-OC-.44 and EPIP-OC-.45 (reference EP changes 98-021 & 98-022)
21	05/99	A. Smith	Incorporate the new public information process and update Pinelands area load super. phone number.
22	DOS	A. Smith	Change references from GPU or GPUN to OCNGS.
23	11/00	A. Smith	Correct frisker setup instructions.
24	06/01	R. Finicle	Change adds guidance regarding personally convey the PAR Notification to the Senior State Official at the State EOC. Change also includes changing President of the Corporation to Nuclear Duty Officer, and adds individual office/pager numbers. Added new Exhibit 19 PAR Notification.

1.0 PURPOSE

This procedure describes the staffing, activation, and operation of the Emergency Operations Facility (EOF).

2.0 APPLICABILITY/SCOPE

2.1 This procedure shall apply to all AmerGen personnel assigned to the EOF during a Site Area Emergency, General Emergency, or when EOF activation is required by the Emergency Director.

3.0 DEFINITIONS

3.1 None

4.0 RESPONSIBILITIES

4.1 The Emergency Support Director (ESD) will perform or delegate the completion of the ESD's checklist (Exhibit 1 and Exhibit 19).

4.2 The Emergency Support Director Assistant will assist the ESD in completing Exhibit 1 and complete the ESD assistant checklist (Exhibit 2).

4.3 The Group Leader - Radiological and Environmental Controls will complete the Group Leader R&EC checklist (Exhibit 3).

4.4 The Group Leader - Administrative Support will complete the Group Leader Administrative Support checklist (Exhibit 4) and implement the EOF Access Control Checklist (Exhibit 4B).

4.5 The Technical Support Representative will complete the Technical Support Representative checklist (Exhibit 5).

4.6 The Materials Management Coordinator will complete the Materials Management Coordinator checklist (Exhibit 6).

4.7 The Emergency Preparedness Representative will assist the ESD in completing Exhibit 1 and complete the Emergency Preparedness Representative checklist (Exhibit 10).

4.8 The Communications Coordinator will monitor and support/direct Communicator activities in support of the emergency.

5.0 PROCEDURE

5.1 Emergency Support Organization (ESO) personnel will report to the EOF when they are notified of the activation of the ESO and perform the responsibilities identified in their assigned exhibits to this procedure and as requested by their emergency supervisors.

6.0 REFERENCES

6.1 2000-PLN-1300.01, "OCGS Emergency Plan".

6.2 Oyster Creek Emergency Plan Implementing Procedures.

6.3 EPIP-OC-.26, The Technical Support Center.

6.4 EPIP-OC-.27, The Operations Support Center.

6.5 2000-ABN-3200.30, Control Room Evacuation.

6.6 1820-IMP-1720.01, Emergency Public Information Implementing Procedure.

7.0 EXHIBITS

7.1 Exhibit 1, Emergency Support Director's Checklist

7.2 Exhibit 1A, Emergency Support Director Turnover Checklist.

7.3 Exhibit 1B, NRC Emergency Response Interface Criteria.

7.4 Exhibit 1C, Protective Action Recommendation Logic Diagram for Oyster Creek.

7.5 Exhibit 2, ESD Assistant Checklist.

7.6 Exhibit 3, Group Leader - Radiological and Environmental Controls Checklist.

7.7 Exhibit 4, Group Leader - Administrative Support Checklist.

7.8 Exhibit 4A, Emergency Aviation Support Instruction Form.

7.9 Exhibit 4B, EOF Access Control Checklist.

7.10 Exhibit 4C, Instructions for Source Check of Frisker at EOF.

7.11 Exhibit 5, Technical Support Representative Checklist.

7.12 Exhibit 6, Materials Management Coordinator Checklist.

7.13 Exhibit 6A, Lakewood Microwave Room Emergency Electric Procedure.

7.14 Exhibit 7, EOF Communications Coordinator Checklist.

7.15 Exhibit 8, EOF Communicator General Duties.

7.16 Exhibit 9, Press Release Approval Guidance.

7.17 Exhibit 10, Emergency Preparedness Representative Checklist.

7.18 Exhibit 10A, Emergency Response Facility Fitness For Duty Determination Instructions.

7.19 Exhibit 10B, ALCO Sensor III Operational Checklist.

7.20 Exhibit 11, Route to EOF.

7.21 Exhibit 12, Emergency Shift Schedule (Sample).

7.22 Exhibit 13, Alternate Emergency Response Facilities.

7.23 Exhibit 14, Site Access Policy for Media During Emergencies.

7.24 Exhibit 15, OC Emergency Communications Log (Sample).

7.25 Exhibit 16, Emergency Message Form (Sample).

7.26 Exhibit 17, HIFAX Log (Sample).

7.27 Exhibit 18, Media Access Briefing Form.

7.28 Exhibit 19, PAR Notification Form.

EXHIBIT 1

Emergency Support Director's Checklist

Initials

1.0 Activate the EOF by performing these steps:

_____ 1.1 Complete Exhibit 1A of this procedure by obtaining a turnover from the ED. Contact the ED in the TSC or Control Room as appropriate.

_____ 1.2 Confirm that the following functions are available at the EOF (Areas need not be fully staffed to be considered functional):

Environmental Assessment

Technical Support

Communications with TSC

Offsite Notifications

_____ 1.3 Ensure that Access Control is maintained to only allow authorized personnel in the EOF.

_____ 1.4 Once the above steps have been completed, inform the ED that you are ready to assume your position as ESD and will take over responsibility for:

- Approving and directing official notifications to offsite agencies.

EXHIBIT 1
(continued)

Emergency Support Director's Checklist

Initials

- Approving and directing information releases to the media.

NOTE
ED/ESD approval is not needed for information releases involving boiler plate information only, (e.g., emergency declarations and media center opening).

- Approving and, if possible, personally conveying appropriate Protective Action Recommendations to the Senior State Official at the State EOC.
- Briefing the NRC Site Team Leader and serve as the official point of contact for receiving NRC directives. This includes interfacing with the NRC regarding deviations from license conditions or technical specifications (10 CFR 50.54).

NOTE
Ensure ED advises the ESD when such deviations are planned and the technical experts are consulted to the fullest extent practicable.

NOTE
The ESD may overrule the ED if the ESD believes a higher emergency declaration is warranted.

_____ 1.5 Announce to the EOF staff that the EOF is activated, and ensure that you or your designee has notified the Nuclear Duty Officer (NDO) office 610-765-5441, pager 610-912-2938.

EXHIBIT 1
(continued)

Emergency Support Director's Checklist

Initials

_____ 1.6 Brief the EOF staff including NRC and State representatives (if available) of plant conditions using the EOF public address system. ESD should notify the State Office of Emergency Management of the Plant Status.

_____ 1.7 Review, as appropriate, Exhibit 1B, NRC Emergency Response Interface.

_____ 1.8 Ensure that someone is assigned to maintain the ESD's log and track ESD assigned action items.

_____ 1.9 Review all press releases related to the emergency that have been approved for release by the ED.

2.0 ESD Conferences

2.1 ESD conferences should be held for information exchange periodically (approximately one every hour) with representatives from the State and NRC and the Group Leader R&EC, Technical Support Representative, Public Information Representative, EP Representative, and other staff as necessary.

2.2 While the ESD is in conference, a staff member should be assigned as "in charge" of EOF activities and instructed to interrupt the conference in the event of a major plant change.

2.3 Action items resulting from ESD conferences should be logged and tracked, and their disposition should be discussed at future conferences.

3.0 EOF Staff Briefings

3.1 When major changes in plant status have occurred, the EOF staff should be briefed and status updated.

EXHIBIT 1 (continued)

Emergency Support Director's Checklist

4.0 Press Releases/Media Site Access

4.1 Press Releases should be issued within approximately one hour from the time that a major plant event has occurred. "Draft" press releases shall have a timely review. Refer to Exhibit 7A for additional guidance.

NOTE
Press releases such as media advisories, emergency reclassifications which merely provide boiler plate information need not have the ED/ESD approval.

Once the Governor has declared a state of emergency, ensure all OCGS press releases are provided to the state representative at the JIC for review.

4.2 If media access to the site is requested, refer to Exhibit 14, "Site Access Policy for Media during Emergencies".

5.0 Onsite Protective Actions

5.1 Determine the status of site accountability (if applicable) from the Group Leader Administrative Support or the ED. Ensure this is logged in ESD's Log.

5.2 Determine if a site evacuation has been ordered and ensure provisions are made for providing site employees with instructions on reporting to work for the next business day. Site evacuation should be logged in ESD's Log.

5.3 Determine if any of the offsite OCGS Facilities are downwind of a radioactive release and provide for their monitoring and protection (e.g., Trailers 300, Oyster Creek Admin. Bldg. and Forked River).

5.4 If non emergency OCGS facilities are within sectors that were ordered to evacuate by the State, then they should be evacuated also.

5.4.1 If OCGS Emergency Facilities e.g. Remote Assembly Area are within sectors ordered to evacuate, direct the Group Leader R&EC to ensure appropriate assessment and protective actions for there locations. They need not be evacuated unless local conditions make it necessary.

EXHIBIT 1 (continued)
Emergency Support Director's Checklist

5.5 A description of evacuation preplanning for Alternate Emergency Response Facilities is provided in Exhibit 11.

6.0 Changes to Emergency Classifications

6.1 Immediately notify the EOF Communications Coordinator of any changes in emergency classifications and approve the offsite notification form.

NOTE

These offsite notifications must be made within 15 minutes of an emergency declaration.

7.0 Offsite Protective Action Recommendations (PAR)

7.1 At the Site Area Emergency, convene an ESD conference and review the PAR Logic Diagram (Exhibit 1C) in preparation for a General Emergency declaration.

7.2 At the General Emergency, convene an ESD conference and immediately discuss the PAR Logic Diagram (Exhibit 1C). Develop a PAR for appropriate notifications within approximately 15 minutes from the GE declaration and approve the offsite notification form for transmitting the PAR to the State.

7.2.1 Personally provide the Oyster Creek PAR to the Senior State Official at the State EOC (Emergency Operations Center) within 15 minutes of the General Emergency. Use Exhibit 19.

NOTE

Verify that you are speaking to the Senior Official at the State EOC when providing the PAR. Initially the State Dispatcher will be the Senior Officer.

7.3 To the maximum extent practicable, attempt to obtain agreement from the State and NRC on the PAR. However, whether agreement is or is not reached, the Corporation shall communicate its PAR to the State OEM within approximately 15 minutes from the time the GE was declared.

EXHIBIT 1 (continued)

Emergency Support Director's Checklist

7.4 ESD should discuss (time permitting) or inform the ED of the PAR decision. This should not hold up the notification of offsite agencies.

7.5 The PAR should not be included in press releases.

7.6 The ESD should ascertain from the NJ OEM what "Protective Action" has been implemented off-site. This should be provided to the NRC via the ENS line as required by 10 CFR 50.72 - follow-up notifications.

8.0 NRC Interface

8.1 Brief the NRC upon arrival and determine if the Senior NRC person is the Site Team Leader or Director, Site Operations (see Exhibit 1B). This briefing should include the status of the event and information on the structure of the OCGS emergency organization. Request the NRC keep OCGS informed of all substantive information exchanges between the NRC and the state. The OCGS emergency organization is not standard in the industry. Specifically discuss that the ED oversees site related activities, maintains a general cognizance of reactor operations (not detailed), and that while the ESD oversees the whole emergency effort, he concentrates on offsite issues.

8.2 Assign an individual to introduce OCGS personnel to their NRC counterparts in the EOF.

8.3 NRC directives can only be received by the ESD (or in the ESD's absence, the ED) NRC should be requested to provide all directives in writing.

9.0 Long-term Recovery

9.1 Refer to Procedure EPIP-OC-.45 for Long-Term Recovery and discuss its implementation at an ESD conference and with the ED.

9.2 If a General Emergency is in effect, OCGS will not de-escalate to a lower level of emergency. The only option is to go into Long-term Recovery and this transition shall not occur until all offsite protective actions have been completed and the State has been informed.

Name_____ Date_____ Time_____

EXHIBIT 1A

EMERGENCY SUPPORT DIRECTOR TURNOVER CHECKLIST

NOTE

This form may be completed by ESD Assistant/Emergency Preparedness representative and may be used to brief State and NRC Representatives upon their arrival.

EMERGENCY CLASSIFICATION — DATE/TIME OF DECLARATION

UNUSUAL EVENT _____

ALERT _____

SITE AREA EMERGENCY _____

GENERAL EMERGENCY * _____

Reactor Power at time of event _____% BRIEF DESCRIPTION OF THE EMERGENCY

_____

_____

_____

_____

CURRENT PAR STATUS * (Required for General Emergency) _____

STATUS OF ACCOUNTABILITY/ONSITE PROTECTIVE ACTIONS _____

PRESENT STATUS OF PLANT

_____ AT POWER (_____%)

_____ Hot Standby

_____ Hot Shutdown

_____ Cooling down (describe cooldown mode) _____

_____

_____

EXHIBIT 1A (continued)

EMERGENCY SUPPORT DIRECTOR TURNOVER CHECKLIST

Estimated time to 'STABLE' plant conditions _____ hours

Did reactor trip? YES - NO

Did ECCS activate? YES - NO

Is offsite power available? YES - NO

Are both Diesel Generators operable? YES - NO

Are Diesels Running? #1 YES - NO #2 YES - NO

Are the Station Blackout CT's Available? YES - NO

Is fuel integrity maintained? YES - NO

Is containment integrity maintained? YES - NO

If no, specify _____

_____

Do you suspect there is a release
(monitored or unmonitored) in progress? ☐ NO ☐ YES ☐ N/A

If yes, specify pathway: _____

Is release ☐ ☐ AIRBORNE RELEASE ☐ LIQUID RELEASE
UNKNOWN ☐ ☐ ☐

Plume dispersion ELEVATED GROUND N/A

Details: _____

_____

Are there any abnormally high inplant radiation levels? YES - NO

Specify location _____

_____

Are there any personnel injuries? YES - NO

Provide status _____

_____

Were there any news releases issued? YES - NO

Specify _____

_____

_____

EXHIBIT 1A (Continued)

EMERGENCY SUPPORT DIRECTOR TURNOVER CHECKLIST

Are there any open technical issues? YES - NO

Specify _____

_____

News releases issued ATTACHED

NOTES:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

When finished sign below:

_____ _____ _____

Emergency Support Director Time Date

EXHIBIT 1B

NRC EMERGENCY RESPONSE INTERFACE CRITERIA

This is a synopsis of the NRC emergency response process as it applies to OCGS. In essence, directives from the NRC must come from the NRC Director (typically, the NRC Chairman) or from the NRC Director of Site Operations (typically, the NRC Regional Administrator). Such advice or directive can only be communicated to the Emergency Director (the Emergency Support Director once the EOF is activated). If a directive order is issued by the NRC Director or Director of Site Operations, the ED/ESD should request written confirmation which spells out the specific nature of the directive.

While NRC advice may be challenged by the ED or ESD, directives must be complied with.

With respect to Protective Action Recommendations for the public, the NRC may either endorse the OCGS recommendation or opt to recommend a different one. The ED/ESD is encouraged to include the NRC and State representatives in the Protective Action Recommendation discussions in order to arrive at a mutually agreeable recommendation. In the event that the NRC opts to recommend a different recommendation, they will attempt to resolve their differences with the utility prior to recommendations to the state. Their recommendation, like the utility recommendation, will be considered by the State in the development of a Governor directive.

EXHIBIT 1B (Continued)

NRC EMERGENCY RESPONSE INTERFACE CRITERIA

Upon arrival of the NRC, the ED/ESD should:

- Verify who is the senior NRC person in charge.
- Ask the Senior NRC Person to inform the ED/ESD when the position of Director Site Operations is assumed and whether the responsibility to issue DIRECTIVES is included.
- Request that the NRC keep OCGS informed of all substantive information exchanges between the NRC and the State.
- Request the NRC provide all DIRECTIVES in writing.

SYNOPSIS - NRC EMERGENCY RESPONSE

NOTE

Review the following as time permits and/or if the NRC is expected to respond.

Revision 2 to NUREG 0728, supplemented by NUREG 0845 and NUREG-1471, describes the manner in which the NRC will respond to an incident and provides criteria for making preplanned response decisions. They provide procedural guidance, describe the functions related to NRC emergency response, and define procedures for responding to the following NRC modes of operation.

Each mode defines the scope of NRC activities related to a particular level of emergency response in ascending order of degree of involvement to deactivation. The various modes are characterized as follows:

1. Normal mode - Normal activities designed to maintain readiness.
2. Standby mode - Regional office activates the Incident Response Center (IRC with an appropriate staff and NRC Headquarters Operations Center staffed by a standby team.

EXHIBIT 1B (Continued)

NRC EMERGENCY RESPONSE INTERFACE CRITERIA

3. Initial activation - NRC Operations Center is staffed by a response team, the Regional IRC is fully activated and a site team is dispatched under the leadership of the Regional Administrator, normally designated as Director of Site Operations (DSO).
4. Expanded activation - Focus on NRC response operations is shifted to the site. DSO is designated primary spokesman for the NRC and may be empowered with directive authority by the Chairman of the Nuclear Regulatory Commission.
5. Deactivation - Follow-up activities (e.g., reviews, investigation, and recovery operations).

The particular mode assumed by the NRC will be dependent upon licensee event classification and "independent NRC perception of relative severity of uncertainty of accident conditions."

NRC ADVICE

The NRC may offer advice or assistance to the Licensee during an emergency, or may respond to Licensee requests for advice or assistance. This may involve diagnosis of critical problems, development of proposed remedial courses of action, and proposals to implement additional precautionary measurers. The NRC is also prepared to direct that certain actions be taken if, after thorough discussion with the Emergency Director (the Emergency Support Director once the EOF is activated) it is decided that such direction is required. In the event that such action is taken by the NRC Director or the NRC Director of Site Operations, the ED/ESD should request written confirmation which spells out the specific nature of the directive. Directives will be communicated directly to the ED/ESD from the NRC Director (NRC Chairman) or from the NRC Director of Site Operations (DSO), typically the Regional Administrator, once appointed and empowered to do so.

EXHIBIT 1B (Continued)

NRC EMERGENCY RESPONSE INTERFACE CRITERIA

Several important concepts govern the NRC in providing advice, assistance, or direction. They are:

a. The Licensee is at all times responsible for mitigating the consequences of the incident.

b. Although the NRC could issue formal orders to the Licensee to take certain measures and to monitor implementation, ". . . licensee continues to make other key operational decisions and to operate and manage the facility . . .".

c. The NRC must have a single voice when advising or directing the Licensee.

d. The ED/ESD has the option to accept or challenge NRC advice.

At no time will advice or direction come from both the Director and DSO and the Licensee will always be kept apprised of who is empowered to exercise authority as the NRC Spokesman. All other NRC personnel in contact with Licensee personnel are responsible to make clear that discussions should not be construed as advice or direction but rather as a sharing or gathering of information.

NRC INPUT TO RECOMMEND PROTECTIVE ACTIONS

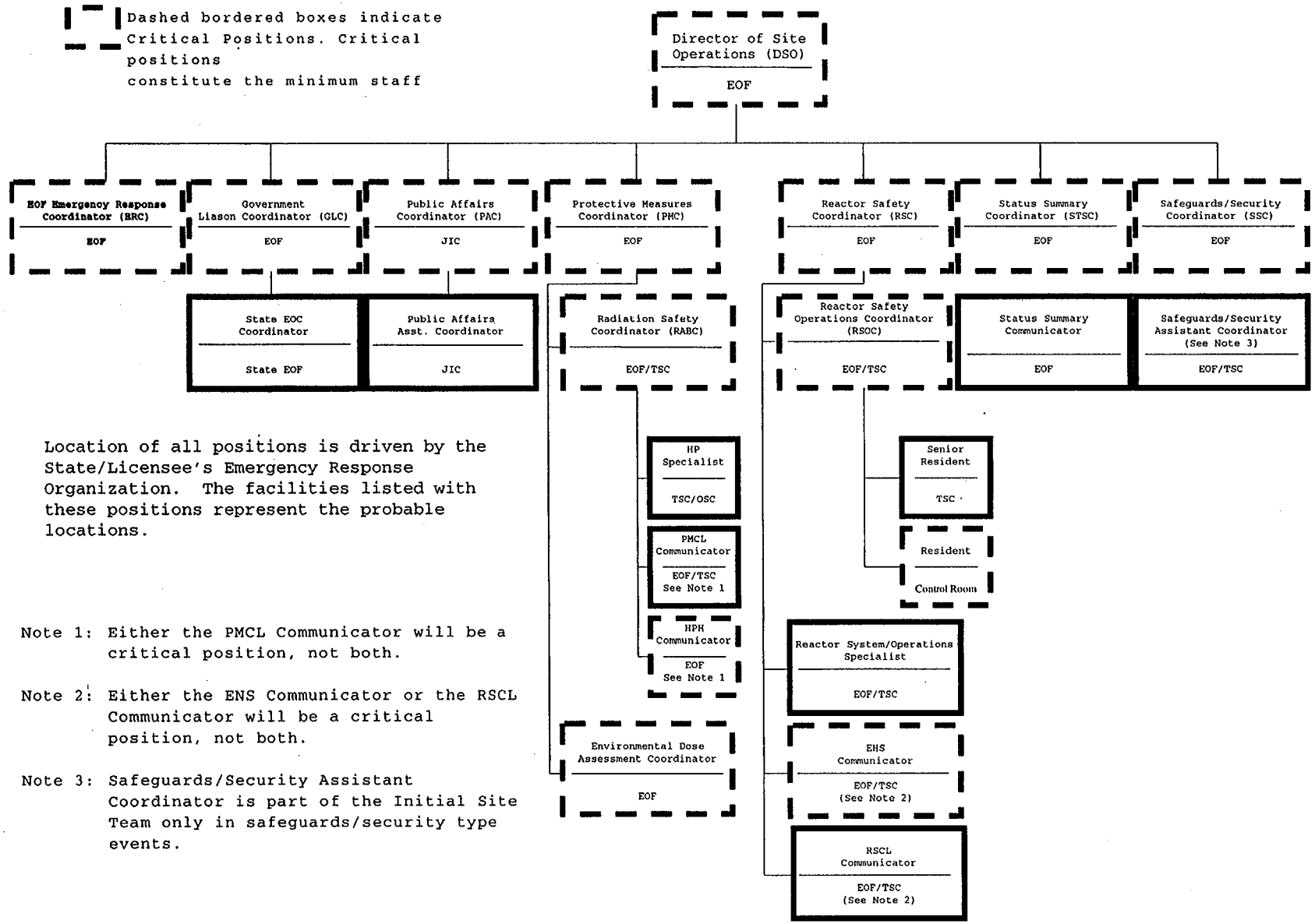
The NRC responsibility during an emergency, as during normal operations, is to ensure that protection of public health and safety is adequate. One aspect of exercise of this responsibility is to provide Protective Action Recommendations or advice to offsite authorities. This may take the form of an NRC endorsement of a Licensee Protective Action Recommendation or the NRC may opt to recommend additional protective actions. The NRC is not involved in recommending protective actions. However they may get involved if a major problem is identified with the protective actions recommended by the Licensee or protective actions undertaken by the state or local government. Additionally NRC involvement may be requested by state or local officials.

NRC ORGANIZATION

The attachment to the synopsis is provided for your information. This attachment depicts the site team organization and is an extract of NUREG 1471. It defines the number of NRC personnel expected to operate in each facility and shows the lines of communications the NRC expects to use.

Exhibit 1B (continued)

NRC Site Organization - Initial Site Team



Location of all positions is driven by the State/Licensee's Emergency Response Organization. The facilities listed with these positions represent the probable locations.

Note 1: Either the PMCL Communicator will be a critical position, not both.

Note 2: Either the ENS Communicator or the RSCL Communicator will be a critical position, not both.

Note 3: Safeguards/Security Assistant Coordinator is part of the Initial Site Team only in safeguards/security type events.

PAR LOGIC DIAGRAM CHANGE

Exhibit 1C

SITE AREA EMERGENCY IS DECLARED

REVIEW PAR LOGIC DIAGRAM IN PREPARATION FOR A POTENTIAL GENERAL EMERGENCY DECLARATION AND PROTECTIVE ACTION RECOMMENDATIONS

GENERAL EMERGENCY IS DECLARED

NO

YES

EVACUATE A 2 MILE RADIUS AND 5 MILES DOWNWIND
UNLESS it is **KNOWN** THAT **SHELTERING** will offer Greater Protection
See Exhibit 1c Section 1.1.1 thru 1.1.3
SHELTER ANY AREAS OF THE 10 MILE EPZ NOT EVACUATED

NOTE

If PAGs are exceeded, or are expected to be exceeded, beyond the 10 mile EPZ, assess the impact on an AD HOC Basis (i.e. Field Monitoring Team Data or Hand Written Contingency Calculations), and provide recommendations as appropriate.

CONTINUE ASSESSMENT BASED ON ALL AVAILABLE PLANT AND FIELD MONITORING INFORMATION

EXPAND EVACUATION RECOMMENDATION TO COVER AREAS WHERE DOSES ARE EXPECTED TO EXCEED1 REM TEDE OR 5 REM ADULT THYROID

EXHIBIT 1c (continued)

OFFSIDE PROTECTIVE ACTION RECOMMENDATIONS GUIDE

1.0 Offsite

1.1 At the General Emergency, review the Protective Action Logic Diagram and provide PAR's to the State within approximately 15 minutes of declaring the General Emergency.

1.1.1 The guidance provided by the NRC for a Protective Action Recommendation at a General Emergency is **Evacuation 2 miles in 360 degrees and 5 miles downwind. Shelter all other non-affected** areas of the 10 mile EPZ.

NOTE

If PAGs are exceeded, or are expected to be exceeded, beyond the 10 mile EPZ, assess the impact on an AD HOC basis (i.e., Field Monitoring Team Data or hand written contingency calculations), and provide recommendations as appropriate.

1.1.2 Under certain circumstances it is permissible to recommend Sheltering if it is **known** that **Sheltering WILL PROVIDE GREATER PROTECTION.**

1.1.2.1 This would most likely occur only for short (puff) release periods that are less than 1.5 Hrs. (which is substantially shorter than the evacuation time).

1.1.2.2 There must be strong assurance that there is definite control of the release and termination of the release by the positive actions of the emergency responders actions during the release process (such as Containment Venting).

1.1.3 Sheltering may be the protective action of choice, if rapid evacuation is impeded by:
a) severe environmental conditions - e.g. severe weather or floods;
b) physical constraints to evacuation - e.g. inadequate roads

NOTE

The information in 1.1.3 a) and b) **MAY ONLY BE AVAILABLE from previous discussions** with New Jersey Office of Emergency Management or New Jersey Bureau of Nuclear Engineering Personnel.

1.2 During a Site Area Emergency, Protection Action Recommendations should not be immediately necessary, however, the PAR Logic Diagram should be reviewed.

1.3 Offsite Protective actions should not be required during an Unusual Event or Alert.

EXHIBIT 2

ESD ASSISTANT CHECKLIST

Initials

_____ 1.0 Upon arrival at the EOF, ensure that steps are being taken to expeditiously activate the EOF and assist the ESD in filling out his checklist.

_____ 2.0 Ensure that missing positions are provided to the Group Leader Admin. Support so that personnel can be contacted to fill the positions.

_____ 3.0 Ensure that personnel properly use the EOF name board and have tags displayed to identify the position they are filling.

_____ 4.0 Provide a briefing to the NRC and State personnel once they arrive.

_____ 5.0 Review, as appropriate, Exhibit 1B, NRC Emergency Response Interface.

_____ 6.0 Review and initial press releases as requested by the ESD or Press Release Writer. The review of press releases should be performed for technical accuracy as quickly as possible. Utilize the guidance in Exhibit 9 for areas of content. Do not "editorialize" information.

_____ 7.0 Request the Group Leader Admin Support or the Communications coordinator to call out additional personnel to provide interface with the NRC if necessary. Other ESD Assistants, Licensing personnel, or Corporate Licensing may be useful in providing information to the NRC.

EXHIBIT 2
(Continued)

ESD ASSISTANT CHECKLIST

Initials

_____ 8.0 If the ESD leaves the EOF for any reason (e.g., leaves the immediate area of the second floor of the Lakewood facility) assume the Person-In-Charge role until he returns.

NOTE
This does not include assuming those responsibilities that the ESD has assumed from the ED.

_____ 9.0 Assume the point of contact role for any inquiries from Nuclear Energy Institute (NEI) Technical and Regulatory Division or EPRI.

_____ 10.0 Refer to EPIP-OC-.01, "Classification of Emergency Conditions" whenever major plant changes have occurred to determine if an emergency upgrade is warranted.

EXHIBIT 3

GROUP LEADER - RADIOLOGICAL AND ENVIRONMENTAL CONTROLS CHECKLIST

_____ 1.0 Evaluate the need for personnel frisking at the EOF and notify the Group Leader Adm. Support.

_____ 2.0 Start a Group Leader R&EC log.

_____ 3.0 Confirm that the EACC is staffed and operational.

_____ 4.0 Establish communications with the RAC.

_____ 5.0 Review, as appropriate, Exhibit 1B, NRC Emergency Response Interface.

_____ 6.0 Request the Group Leader Admin Support or the Communication Coordinator to call out additional personnel to provide interface with the NRC if necessary. Other Group Leader R&EC's, Licensing personnel, or Corporate Licensing may be helpful in providing information to the NRC.

_____ 7.0 Ensure that all Radiological Control personnel use the tag board.

_____ 8.0 Initiate the development of a watchbill for your organization that will support the emergency on a 24 hour/day basis using Exhibit 12 and forward to the Group Leader Admin Support.

_____ 9.0 Direct the EAC to supply you with dose projections and field monitoring team results as applicable.

_____ 10.0 Be prepared to brief the ESD on all radiological conditions and review the PAR Logic Diagram (Exhibit 1C) in preparation for PAR discussions.

NOTE

Should it be necessary to evacuate the areas containing the RAA (NNW 5 - 10 miles) consider appropriate protection for personnel at the facility. This may consist of increased habitability.

NOTE

If problems are encountered with emergency telephones, contact the EOF Communications Coordinator.

EXHIBIT 3
(continued)

GROUP LEADER - RADIOLOGICAL AND ENVIRONMENTAL CONTROLS CHECKLIST

Surveys, use of protective equipment, sheltering or evacuation. The Administrative exposure limit criteria as modified by EPIP-35, "RAC Guide", should be used unless the workers are considered critical in which case emergency workers overexposure authorization must be obtained.

_____ 11.0 Assume responsibility for all Radiological and Environmental Control Activities.

_____ 12.0 Forward this completed form to the EOF Communications Coordinator. Group Leader R&EC should participate in BNE PAR process following the ESD PAR Development. This is to ensure OCGS & BNE are basing PAR's on identical plant information. OCGS should try to understand the basis for the BNE's PAR. If the PAR is different from OCGS the group leader R&EC shall notify the ESD. Review and initial press releases as requested by the ESD or P.I. Rep.

Signature _____ Date _____ Time _____
Group Leader R&EC

EXHIBIT 4

GROUP LEADER - ADMINISTRATIVE SUPPORT CHECKLIST

Initials

_____ 1.0 Maintain awareness of security events and Materials Management Coordinator Activities (i.e., procurement of transportation, equipment).

_____ 2.0 Assign an individual to implement exhibit 4B, EOF Access Control Checklist.

NOTE
If problems are encountered with emergency telephones, contact the EOF Communications Coordinator.

_____ 3.0 Ensure all Admin Support personnel use the tag board.

_____ 4.0 Assist EOF Coordinators and Group Leaders in:

- Filling personnel vacancies (via Security).
- Developing shift schedules.
- Coordinating with offsite support.
- Obtaining needed reference material (i.e., INPO Resource Manual, Plant Prints, Technical Specifications, etc.).

EXHIBIT 4
(Continued)

GROUP LEADER - ADMINISTRATIVE SUPPORT CHECKLIST

Initials

_____ 5.1 Assist NRC in implementation of their work area at EOF by providing the following items (as needed):

NOTE
THIS APPLIES DURING EMERGENCIES. DO NOT PERFORM THIS FUNCTION DURING DRILLS/EXERCISES UNLESS INSTRUCTED BY THE DRILL CONTROLLER.

- Use of facsimile and Xerox machines.
- Additional office space in building where available.
- Office supplies.

_____ 6.0 Direct the efforts of the Administrative Support staff in the administrative and logistic support of the Emergency Response Organization. Including, but not limited to:

6.1 General administration.

6.2 Personnel administration and accommodations.

6.3 Outside plant support.

NOTE
If diesel fuel is needed for the site due to emergency conditions (e.g. hurricane) and can not be obtained through normal commercial suppliers, contact the OEM Rep. at the EOF or the NJ Office of Emergency Management (OEM). See EPIP-OC-.06 for the number.

6.4 Commissary/Food Logistics.

6.5 Human Resources/Paychecks.

6.6 Aviation Support (Exhibit 4A).

EXHIBIT 4 (continued)

GROUP LEADER - ADMINISTRATIVE SUPPORT CHECKLIST

Initials

_____ 7.0 Develop a shift schedule for your organization. (Exhibit 12)

_____ 8.0 Notify the ESD Assistant when the facility is functionally staffed with groups as outlined below. Collect, coordinate and maintain shift staffing schedules (Exhibit 12) prepared by the following group leaders:

_____ 8.1 EOF Communications Coordinator.

_____ 8.2 Technical Support Representative.

_____ 8.3 Group Leader Radiological and Environmental Controls.

_____ 8.4 Environmental Assessment Coordinator.

_____ 8.5 Material Management Coordinator.

_____ 8.6 PI Tech Rep/EOF.

_____ 8.7 Emergency Preparedness Representative.

_____ 9.0 If necessary, provide support to the Communications Coordinator.

_____ 10.0 Function as point of contact for ANI/INPO.

_____ 11.0 Function as Person-In-Charge if asked and both the ESD and ESD Assistant must leave the (2nd floor of the Lakewood facility) EOF.

_____ 12.0 If site access is required by personnel not currently badged at OCGS:

_____ 12.1 Using the Site Confidential Phone List, contact the Technical Training Manager or designee for O.C. Inform individual of the circumstances and request provisions be made to accommodate emergency training.

_____ 13.0 Ascertain from the Security Shift Commander and inform the ESD on the status of accountability and/or site evacuation, if and when declared.

- Establish telephone and radio communications with Site Security.

_____ 14.0 If any personnel are injured onsite, keep the ESD informed. All official notifications are done by the Medical Department.

EXHIBIT 4 (continued)

GROUP LEADER - ADMINISTRATIVE SUPPORT CHECKLIST

Initials

_____ 15.0 Documentation collected from center coordinators.

- Communicator Log Sheets.
- Emergency Message Forms.
- Facsimile Machine Transmitted Documents.

_____ 16.0 Emergency Center restored.

- Procedures returned.
- Prints returned.
- Office supplies returned.
- Computers, lights and other equipment turned off.

_____ 17.0 Center returned to an orderly Condition.

- Clean off status boards.

18.0 Report the EOF secured to the Emergency Support Director.

Signature _____ Date _____ Time _____
Group Leader Administrative Support

EXHIBIT 4A

EMERGENCY AVIATION SUPPORT INSTRUCTION FORM

Initials

_____ 1.1 Request for Aviation Support Authorized by:

Title: _____

Name: _____ Signature: _____

_____ 1.2 Contact Horsham Valley Airways, Inc.

(215) 674-2100 working hours

(215) 674-2101 after hours

(215) 578-6466 pager

Identify yourself by title and name. Record the data and time and name of the person contacted:

Name: _____

Time and Date: _____/_____

_____ 1.3 Describe the extent of the emergency aviation support needed.

_____ 1.4 Provide the Aviation Support Contractor with the location of the pick up and destination.

1.4.1 Record the location and personnel/cargo to be picked up, as well as the estimated time of arrival at the pick up site.

_____
(Location)

_____
(Personnel/Cargo)

_____
(Estimated Time of Arrival)

EXHIBIT 4A (Continued)

EMERGENCY AVIATION SUPPORT INSTRUCTION FORM

Initials

1.4.2 Record the destination of the cargo from Step 1.4.1 and estimated time of arrival.

_____
(Cargo)

_____
(Estimated Time of Arrival)

_____ 1.5 Arrangements have been made to deliver the cargo to the pickup site by the estimated arrival time.

_____ 1.6 Arrangements have been made to pick up the cargo at the destination by the estimated arrival time.

_____ 1.7 For additional emergency aviation support, repeat Steps 1.2 through 1.6 recording conversation using the Telephone and Communications Logsheet.

_____ 1.8 Upon completion of emergency aviation requirements, notify the aviation services contractor to terminate services. Record the name of the individual and the time of the notification.

Oyster Creek Aviation Facility Information Form

1. Airports
   a. Miller Air Park located west of Toms River on Pinewald-Keswick Road.
   b. Lakewood Airport located on Rt. 528 Southeast of Lakewood.
2. Heliports
   a. Onsite heliport is designated as FAA Site Number H-205 and is equipped with a wind sock but no lights.

EXHIBIT 4B

EOF ACCESS CONTROL CHECKLIST

Initials

_____ 1.0 Establish an Access Control area at the main entrance of the EOF/JIC.

_____ 2.0 Ensure all entrances other than the main entrance to the EOF/JIC are locked. Post the locked doors of the JIC with the signs available in the main hallway closet, when time and resources permit.

_____ 3.0 Activate and reset the alarm system. The power switch is inside the closet in the hallway by the entrance to the Auditorium (JIC Briefing area).

_____ 4.0 Establish an access log. Allow only authorized personnel to enter the EOF or JIC.

NOTE

Authorized personnel are: Employees with Employee Identification Card, Federal and State Emergency Response personnel with proper identification. The duty roster may be used for guidance. If personnel other than those on the roster request entry, you must get authorization from the Group Leader Admin. Support or the Emergency Preparedness Representative.

NOTE

If unauthorized personnel attempt to gain access to the EOF, the individual assigned access control should contact the OEM Representative at the EOF or the Lakewood Police Dept. at (732) 363-0200 and request assistance.

_____ 5.0 Source check the frisker stored in the EOF using the instructions in Exhibit 4C. After source checking the frisker, place it at the entrance of the EOF with the range switch set for 500 CPM full scale. Hand and foot frisks should be required until the Group Leader R&EC arrives, and confirms or discontinues the need for frisking. Otherwise, when communications are established call the RAC at 609-971-4156 and ask if frisking is required.

EXHIBIT 4B
(Continued)

EOF ACCESS CONTROL CHECKLIST

Initials

_____ 6.0 If you are notified by an individual that they have consumed an alcoholic beverage within the past five (5) hours or believe an individual should be tested for Fitness for Duty, notify the Emergency Preparedness Representative.

_____ 7.0 Forward this completed form to the Group Leader Administrative Support.

Signature _____ Date _____ Time _____

EXHIBIT 4C

INSTRUCTIONS FOR SOURCE CHECKS OF FRISKER AT EOF

The frisker is located in the EOF next to Public Information Desk. The check source is located in a lock box above the frisker.

Initials

_____ 1.0 Verify with the Gr Ldr R & EC that frisking is required at the EOF if the Gr Ldr is available, otherwise setup the frisking station.

_____ 2.0 Check calibration sticker and ensure that the current date is before the "Calibration Due Date".

_____ 3.0 Ensure the frisker is plugged into 110V AC outlet.

> NOTE
>
> The frisker will operate on battery power if no 110V AC is available.

_____ 4.0 Check the frisker cable connections secure.

_____ 5.0 Turn selector knob to "BATT" (battery) position and check that meter reads in BATT OK range then place selector knob in on position. Assure AC light is on.

_____ 6.0 Unplug the AC Power, Take Frisker to Supply Closet.

_____ 7.0 Turn selector knob to the highest position, place probe directly over the source and wait 30 to 60 seconds for meter to respond. If it does not, contact Group Leader R&EC for direction.

_____ 8.0 Turn selector knob back to X1 position.

_____ 9.0 Relocate the frisker to the EOF entrance to be used for personnel monitoring, as appropriate, with existing conditions.

_____ 10.0 When the frisker is no longer needed, or the EOF is deactivated, return the frisker to EOF, turn selector knob to "OFF" and plug the frisker into 110V AV electrical outlet to maintain a charge on the batteries.

EXHIBIT 5

TECHNICAL SUPPORT REPRESENTATIVE CHECKLIST

Initials

_____ 1.0 Start a Technical Support Representative log.

_____ 2.0 Ensure all Tech Support personnel use the tag board.

_____ 3.0 If additional personnel are needed for technical reasons or NRC interface, request the Group Leader Admin Support to call out personnel. Tech Support staff from other teams, Licensing personnel, or Corporate Licensing may be helpful in providing information to the NRC.

_____ 4.0 Monitor the (01) Conference Line ED/OPS Headset to keep abreast of Plant conditions. This line is not to be used for communicating Engineering questions, concerns or discussions. Engineering tasks should be communicated over other EP lines or alternate lines as appropriate.

_____ 5.0 Initialize the Plant Computer System Terminal and Display Data on center screen. Operating aids for the projector are at the projector.

_____ 6.0 Ensure the computer is on next to the projector stand in center. This computer is also connected to the projector and can display other information as desired, such as logs, action items, etc.

_____ 7.0 Ensure the PPM Computer is on and displaying appropriate tables as requested.

_____ 8.0 Review, as appropriate, Exhibit 1B, NRC Emergency Response Interface.

_____ 9.0 If problems are encountered with emergency telephones, contact the EOF Communications Coordinator.

_____ 10.0 Verify that prints, technical manuals, reference materials, etc., are available in the Technical Support area.

_____ 11.0 Initiate the development of a watchbill for your organization that will support the emergency on a 24 hour/day basis using Exhibit 11 and provide to the Group Leader Admin. Support.

EXHIBIT 5 (continued)

TECHNICAL SUPPORT REPRESENTATIVE CHECKLIST

Initials

_____ 12.0 When the BNE arrives, establish an information exchange pathway with them. Provide known current plant status. Ensure communications are clear and precise. It is important to answer all BNE questions concerning plant status, release pathway etc. in a timely fashion. The ESD should be made aware of any request that can not be met in a timely fashion so that the appropriate contacts can be made to answer the question.

_____ 13.0 Be prepared to advise the ESD on any plant or technical information which may be needed and review the PAR Logic Diagram (Exhibit 1C) and obtain data necessary to answer PAR questions in advance of PAR discussion.

_____ 14.0 Obtain additional technical support (as requested) for the Emergency Response Organization through contact with the Corporate Engineering dept. personnel. Call-out additional assistance through use of the Engineering dept. call-out list.

_____ 15.0 Review the appropriate press releases for technical accuracy, as quickly as possible, when requested by the PI rep. or ESD. Utilize the guidance in Exhibit 9A as a reference.

_____ 16.0 Forward this completed form to the EOF Communications Coordinator.

Signature _____ Date _____ Time _____

EXHIBIT 6

MATERIALS MANAGEMENT COORDINATOR CHECKLIST

Initials

_____ 1.0 Access the Automated Materials Management System (AMMS).

_____ 2.0 Initiate the development of a watchbill for your organization that will support the emergency on a 24 hour/day basis using Exhibit 12 and provide to the Group Leader Admin. Support.

_____ 3.0 Be prepared to place the EOF microwave system backup generator in service using Exhibit 6A when directed by the ESD.

Signature _____ Date _____ Time _____

EXHIBIT 6A

LAKEWOOD MICROWAVE ROOM

EMERGENCY ELECTRIC PROCEDURE

1.0 PURPOSE

The purpose of this procedure is to provide the necessary steps to provide an emergency electric power supply for the microwave radio equipment and base station radio equipment located at the Lakewood facility.

NOTE

The microwave communications system will function for up to eight hours after a loss of power on its batteries. Before connecting the portable generator, attempt to contact tele-communications technicians from the Larrabee Shop, phone number (732) 370-7242. During off hours contact the Pinelands Area Load Supervisor at (973) 455-8274 and request that technicians be called out to connect the generator. The tele-communications supervisor may also be paged at (973) 203-8164.

2.0 PROCEDURE

2.1 Move the portable emergency generator from the boiler room to the rear of the building; the generator should remain outside the building and be within close proximity of the microwave room. The key for the boiler room must be gotten from the key cabinet in the EOF. The key for the lock on the generator security chain is located on the "Emergency Backup Generator Supplies" board located in the microwave room.

2.2 Fill the generator with gas. Gas containers and gas can be found in the "Flammable Fuels" cabinet located in the Line Department's fenced-in storage enclosure. Note that gas is also available at the outside gas pumps which are also powered by a backup generator.

2.3 On the generator, set the Voltage Selector to the "120V/240V" position.

2.4 On the generator, set the AC Circuit Breaker to the "OFF" position.

2.5 On the two battery charger/eliminators, set the Power Switches to the "OFF" position.

EXHIBIT 6A
(Cont'd)

LAKEWOOD MICROWAVE ROOM

EMERGENCY ELECTRIC PROCEDURE

2.6 Disconnect the base station radios power cords.

2.7 Disconnect the two power cords for the battery charger/eliminators.

2.8 Select one of the battery charger/eliminators for use. Only one is required to supply the necessary power for the microwave equipment.

2.9 On the selected battery charger/eliminator open the front panel by loosening the two top screws. Set the battery charger/eliminator input source switch to operate at "240 Volts".

2.10 Connect the two extension cords to the generator and the appropriate equipment. The extension cords are located on the "Emergency Backup Generator Supplies" board located in the microwave room. The "120 Volt" extension cord is for the base station radios; the "240 Volt" extension cord is for the one selected battery charger/eliminator which will power the microwave equipment.

2.11 Start the generator by turning the ON/OFF switch to the "ON" position and pulling the starter rope. A choke is also available and may have to be used. See the generator operator manual for additional operating instructions.

2.12 On the generator, turn the AC Circuit Breaker to the "ON" position.

2.13 On the selected battery charger/eliminator, set the POWER switch to the "ON" position.

2.14 The microwave equipment and the base station radios are now back in operation powered the emergency backup generator.

2.15 To ensure adequate cooling for the microwave room, keep the door open and apply forced ventilation via electric fan. The fan may be plugged into the extension cord used by the radios.

EXHIBIT 7

EOF COMMUNICATIONS COORDINATOR CHECKLIST

INITIALS

_____ 1.0 Report to the ESD Assistant, monitor and support/direct communicator activities in support of the emergency.

_____ 2.0 Ensure that sufficient communications capability exists to function satisfactorily. Report phone problems to the TSC Communications Coordinator who will initiate repairs.

_____ 3.0 Verify all computers are running and displaying the appropriate information.

_____ 4.0 Set the EOF clock to agree with the time displayed by the PCS. (During drills ask the controller). Maintain a communications log, recording significant communications related events. Utilize the PC if available, or other means of recording information.

_____ 5.0 Ensure all communications personnel use tag board.

6.0 Call out additional personnel if required.

NOTE

For call out of Duty Roster positions contact Security Shift Commander. For additional staff contact Group Leader Admin Support. If he is not available, use normal department call out methods.

_____ 7.0 Assign responsibilities to Communicators for:

- Notifications to offsite agencies (EPIP-OC-.03) as appropriate.
- Maintaining ESD log and ESD Action Items using a PC or other means as appropriate or available.
- Status boards if needed or appropriate.

EXHIBIT 7
(continued)

EOF COMMUNICATIONS COORDINATOR CHECKLIST

INITIALS

_____ 8.0 When the ESD activates the EOF, contact the ECC Communications Coordinator and assume Off-site notification responsibilities unless directed not to do so. Request all completed off-site notifications checklists and station status checklists be faxed, so that there is a clear understanding of which notifications have been made from the ECC.

Time of Transfer:_____

ECC Communications Coordinator:_____
Name

_____ 9.0 Initiate the development of a watch bill for your organization that will support the emergency on a 24 hour/day basis. Refer to Exhibit 12.

_____ 10.0 Upon termination of the emergency ensure that communications equipment and supplies are replaced and returned to a ready status upon deactivation of the EOF.

_____ 11.0 Upon termination of the emergency, ensure those agencies previously notified in EPIP-OC-.03 have been advised of the termination.

_____ 12.0 Forward all completed logs and records to the Emergency Preparedness Department.

Signature:_____ Date:_____
EOF Communication Coordinator

EXHIBIT 8

EOF COMMUNICATOR GENERAL DUTIES

1.0 Report to EOF Communications Coordinator.

2.0 Receive and direct incoming calls to requested positions.

3.0 Complete outgoing calls as directed by Emergency Management.

4.0 Direct outgoing messages to appropriate facilities.

5.0 Maintain telephone log and/or message log current.

5.1 Communications logs are stored at the communicator's duty station via the PC or book. Alternately, Exhibit 15 may be used.

5.2 The following items should be recorded:

- All significant telephone conversations (e.g.: 08:40-ESD called re Status of OSC Team #8)
- Date and time of emergency declarations
- Notifications of offsite agencies
- Incoming fax transmissions
- Plant status prior to and at the time of emergency declarations
- Logging and routing of incoming message forms
- Major actions requested and major actions performed (by whom)
- Significant information (e.g., Protective Action Recommendations, requests for assistance, etc.)
- Communications with offsite agencies

6.0 Collect all paper records (Ensure records have been completed as appropriate) and turn over to EOF Communications Coordinator for review.

7.0 Report telecommunications problems to EOF Communications Coordinator.

EXHIBIT 8
(continued)

EOF COMMUNICATOR GENERAL DUTIES

8.0 Perform offsite notifications in accordance with EPIP-OC-.03 as directed by EOF communications Coordinator.

9.0 Relay requests.

9.1 Verbal requests for engineering information (TSC) should be logged. Request may be followed up with written communications over the fax.

9.2 When transmitting a written request:

- transcribe it (as necessary) onto the Emergency Message Form (Exhibit 16)
- complete all spaces on the form
  - message number (Communicators may assign message numbers to correspond with individual Communicator's log but must reserve the Message Number Line for the number assigned by Plant Status Update Line Communicator).
  - to whom directed
  - to center directed
  - "from" person
  - "from" center
- Completed form should be faxed to the appropriate center. The reply may be stapled to, or transcribed onto the same message form.
- Number and log each fax transmission using Exhibit 17.

NOTE

Number outgoing transmissions sequentially regardless of the type of transmission. Use location designator as part of sequential number, i.e. EOF-001, EOF-002, etc.

EXHIBIT 9

PRESS RELEASE APPROVAL GUIDANCE

1.0 Press releases should be issued within approximately one hour from the time that a major plant event has occurred. Press releases shall include the time that the information is current and be written in accordance with the following guidelines.

2.0 The following categories of information should be included in press releases.

a. Level of Emergency

This is simply identifying which one of the four emergency levels was declared.

b. Basis for Emergency Declaration

This should be a simplified description of the plant condition which produced the emergency action level (e.g., a leak of radioactive water within the plant building).

c. Operational Status of Plant

A simple description of plant status at the time of the emergency declaration (e.g., OCGS was operating at 100% power when the leak was discovered, however, the plant is currently reducing power).

d. Company/Government Interface

This is intended to inform the public that OCGS has notified and is working closely with government officials so that public confidence and company credibility can be increased.

EXHIBIT 9
(Continued)

PRESS RELEASE APPROVAL GUIDANCE

e. Corrective Actions

This should be a non-technical description of what plant personnel are doing to correct the problem. It may include such language as "attempts are being made to stop the leak" or "plant personnel are investigating the cause of the leak."

f. Offsite Impact

A statement which simply assesses what impact this event may have on the environment. This is intended to provide factual information on offsite radiological conditions (e.g., a radioactive release is in progress, however, environmental monitoring teams have not detected any radiation levels offsite in excess of normal background).

The initial press release should include all or part of the above information since time is of the essence. However, at the very least it should contain items a-e above. (pre-approved boiler plate news releases are contained in Procedure 1820-IMP-1720.01, Attachment 1)

3.0 In addition to the above, the following guidance will be used in issuing press releases:

- Speculation, dose projections and Protective Action Recommendations should not be included in press releases.

EXHIBIT 9
(Continued)

PRESS RELEASE APPROVAL GUIDANCE

- All press releases must be approved by the ESD, except the press release announcing the opening and location of the Joint Information Center when it is activated. Operational and radiological review and concurrence by the ESD Assistant and Group Leader R&EC may be appropriate if the press release has radiological or operation details.

NOTE
For security related events, Press releases containing potential Safeguards information are to be reviewed by the Security Coordinator.

Original initialed copies are to be retained for records. Exceptions to this are limited to press releases with boiler plate information only (e.g., pre-approved boiler plate news releases are contained in Procedure 1820-IMP-1720.01, Attachment 1) which may be issued without prior review and approval. Once the Governor has declared a "State of Emergency" all OCGS Press Releases shall be provided to the State Police representative in the Joint Information Center for review prior to final issuance. Changes made as a result of this review should be communicated to the ESD.

- Press releases will be reviewed expeditiously in order to support timely issuance.
- Press releases should avoid technical terms (e.g., plant names) and jargon (e.g., trip) and should be written as simple as possible. For example, Iso Condenser could be referred to as a heat removal process from the reactor.

EXHIBIT 10

EMERGENCY PREPAREDNESS REPRESENTATIVE CHECKLIST

Initials

_____ 1.0 Ensure that EOF communications links and information displays are properly set up and functioning.

_____ 2.0 If requested, assist the ESD in completing Exhibit 1.

_____ 3.0 Ensure that proper information channels have been set up with BNE and NRC representatives if necessary.

_____ 4.0 Initiate a watchbill for your position that will support the emergency on a 24 hour/day basis using Exhibit 12 and forward to the Group Leader Admin. Support.

_____ 5.0 Ensure that all EOF personnel have used the tag board.

_____ 6.0 Support the ESD by providing information on:

1. The Emergency Plan implementation.
2. On Site, Off Site and State Emergency Response facilities. Refer to the NJ State RBRP and applicable procedures (SOP's)Provide interpretation/conversion of PAR Keyhole sectors and related
   NJ-OEM used Emergency Response Areas (ERPA's) - (SOP-305).
3. Communications abilities, means and methods. Initiate ESDs on the PC in Conf. area next to "Large Screen" TV.
4. Personnel and resources availabilities.
5. Procedure/Plan requirements.

_____ 7.0 When requested by the ESD, ensure Fitness for Duty requirements are met in accordance with Exhibit 10A. Breathalizers are kept in the EOF supply cabinet.

_____ 8.0 Approve access for those who are not badged or on the approved access list.

_____ 9.0 Ensure the Communications Coordinator collects completed checklists from all EOF personnel when time permits and forwards them to you.

Signature _____ Date _____ Time _____

EXHIBIT 10A

EMERGENCY RESPONSE FACILITY

FITNESS FOR DUTY DETERMINATION INSTRUCTIONS

NOTE

The Fitness for Duty rule applies to all Company employees (including contractors and vendors) granted unescorted access to the protected area or who are required by position or name to report to the EOF. These instructions address their evaluation for utilization in an emergency only. All "for cause" evaluations must be conducted by the Medical or Security Department.

Scope:

In accordance with 1000-ADM-2002.06, Fitness for Duty, individuals responding to an emergency who have consumed alcohol within the previous five hours but believe that they are fit for duty shall inform the Emergency Support Director and receive an evaluation. Contractor/vendor personnel shall be asked if they have consumed alcohol within the previous 5 hours. If the answer is yes, an evaluation shall be conducted.

Instructions:

The Emergency Support Director shall direct the Emergency Preparedness Representative to administer the breath alcohol evaluation in accordance with Exhibit 10B.

NOTE

Extra copies of Exhibit 10B are kept with the instrument.

Based on the results of the test, perform the following:

1) BAC 0.01% or less

Allow the individual to work in the facility.

EXHIBIT 10A
(Continued)

EMERGENCY RESPONSE FACILITY

FITNESS FOR DUTY DETERMINATION INSTRUCTIONS

2) BAC greater than 0.01% but less than 0.04%

Allow the individual to work in the facility. Re-test the individual approximately every thirty minutes to determine the maximum BAC. If the maximum BAC is equal to or greater than 0.04%, refer to Step 3. If less than 0.04%, no further action is required.

3) BAC equal to or greater than 0.04%

If determined that the individuals unique knowledge or skills are required, that Individual shall only be permitted to work with permission of the Site Director, (or in his/her absence, his/her designee), Emergency Support Director, Emergency Director, or Chief Nuclear Officer only after satisfactory assurance, that the individual is capable of performing his/her duties. Remind the Emergency Support Director that if this individual is needed to work, he/she must be escorted at all times. Arrangements should be made as soon as practicable for (For Cause) testing in accordance with 1000-ADM-2002.06.

NOTE

Individuals not "ON CALL" who report to their Emergency Response Facility and test equal to or greater than 0.04 percent BAC are not subject to disciplinary action.

4) Ensure the individual who tested equal to or greater than 0.04 percent, if not needed, is not permitted to drive home. Provide a place for the individual to rest or contact Group Leader - Admin Support to arrange for transportation.

5) Be alert for any individual that exhibits aberrant behavior or smell of alcohol. Test these individuals in accordance with this exhibit. If aberrant behavior cannot be attributed to a positive BAC reading, ask the Group Leader - Admin Support to contact the Security Department for further action.

SAMPLE

EXHIBIT 10B
ALCO SENSOR III OPERATIONAL CHECKLIST

TEST SUBJECT NAME: _____ DATE: _____

SOCIAL SECURITY #: _____ SERIAL #: _____

TIME OF TEST: TEST 1 _____ TEST 2 _____

TEST RESULT (BAC): TEST 1 0. % TEST 2 0. %

OPERATOR NAME: _____ SIGNATURE: _____

INSTRUCTIONS - check each box after completion of step.

NOTE

The fifteen minute observation period of the subject may be waived as long as a positive test result is not received. Should a positive test result be indicated, it shall be disregarded and the alcohol breath test started anew after at least a 15 minute observation period.

A weak battery is indicated by an "8.888" in the display window. Replace battery.

1. ☐ Check temperature window on back of unit (should read 20° to 36°C)

2. ☐ Have the individual mount mouth piece on unit.

3. ☐ Press "READ" button and hold for (10) seconds. Check to see if .000 is constant. If not, press "Set" button and recheck in one minute. If the display reads greater than .000, use another unit or send individual to another location. Remove the instrument from service and forward to the Medical Department for repair and use another instrument for testing.

4. ☐ Press "SET" button.

5. ☐ Instruct subject to take a deep breath and blow steadily through the tube until told to stop (minimum of 4 seconds). (NO smoking within [15] minutes of test.)

6. ☐ Push "READ" button during third second that the subject is blowing. (Subject MUST continue to blow for a minimum of one [1] second after the "READ button is depressed.)

EXHIBIT 10B
(Continued)

ALCO SENSOR III OPERATIONAL CHECKLIST

7. ☐ Keep "READ" button depressed until reading stops climbing.

8. ☐ Record and time of TEST 1/TEST 2. (Note: The two readings must agree within ± 10%, of the averages of the two measurements, if not, use another instrument)

9. ☐ Press "SET" button to accelerate elimination of reading and electrically clean the cell surface.

10. ☐ Wait a minimum of two minutes and a maximum of 10 minutes and repeat Steps 3 through 9.

EXHIBIT 11

ROUTE TO EOF

(PINELAND DIVISION OFFICE)

1. Take Route 9 north to Lacey Road.
2. Make left on to Lacey Road and travel west to the Parkway North entrance which will be on your right.
3. Take Garden State Parkway North to exit 83 (Lakewood).
4. Follow jug handle to Route 9 North. (An AT&T microwave tower is located in the center of the jug handle.)
5. Take Route 9 North.
6. The EOF (Pineland Division Office) is on the right about 500 ft. past the light at the intersection of Routes 9 and 528.

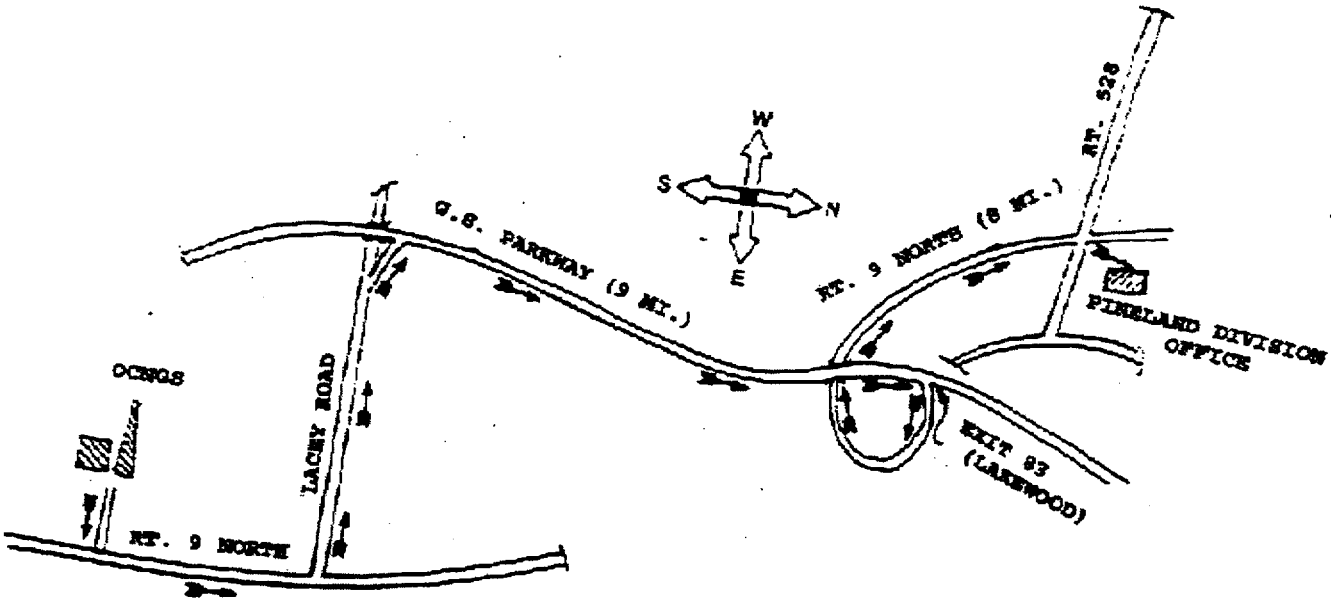


EXHIBIT 12

SAMPLE

DATE:

EMERGENCY SHIFT SCHEDULE

GROUP (eg. Admin.):

TIME:	SHIFT 1	SHIFT 2	SHIFT 3
BEGIN			
END			

		NAME	NAME	NAME
POSITION #				
PHONE	HOME #			
	WORK #			
	BEEPER #			
POSITION #				
PHONE	HOME #			
	WORK #			
	BEEPER #			
POSITION #				
PHONE	HOME #			
	WORK #			
	BEEPER #			
POSITION #				
PHONE	HOME #			
	WORK #			
	BEEPER #			

EXHIBIT 13

ALTERNATE EMERGENCY RESPONSE FACILITIES

This exhibit provides for a description of evacuation preplanning for Alternate Emergency Response Facilities as follows:

1. Control Room/ECC - Evacuation of Control Room - the Operators control the plant from remote shutdown panels and the GSS directs plant operations from the TSC. All other ECC IREO members are integrated into the TSC organization. (Refer to 2000-ABN-3200.30 for specific direction).
2. OSC - Evacuation of OSC - all OSC personnel are evacuated to the SOSC which is located in the rear of the TSC. (Refer to EPIP-OC-.27 for specific direction.)
3. TSC - Evacuation of TSC - the ED support staff which includes the ED, ED Assistant, RAC, RASE, and PI Rep. evacuate to the Control Room (ECC). The Tech Support staff which includes the TSC Coordinator, TSC Engineers, Communication Coordinator, Communicators and the Tech Assistant evacuate to the OSC. The Core Engineer would initially report to the Control Room, but if his services are not needed, he will be sent to the OSC. (Refer to EPIP-OC-.26 for specific direction).
4. Remote Assembly Area - Evacuation of RAA's - if the Forked River Bldg. 14 RAA is not available then relocate to the Berkeley Customer Operations Center and vise versa.
5. Emergency Assembly Area - The EAA may be redirected to the Forked River Assembly Area or to the Remote Assembly Area at Berkeley Line as directed by management. In this case Site Accountability is conducted as personnel exit the site.
6. EOF - There are no backup facilities for the EOF because it is remote from the site and it is unlikely that a nuclear related incident would affect both the plant and this center.

Exhibit 14

SITE ACCESS POLICY FOR MEDIA DURING EMERGENCIES

Providing reasonable site access to the media during a plant emergency is in the best interest of OCGS and the public.

Responsibility for approving site access rests with the Emergency Support Director, or if the EOF is not activated, with the Emergency Director.

For purposes of media access to the site during an emergency, the same industrial safety and security standards and requirements that apply to non-essential employees will be applied to the media.

Communication Dept. Responsibilities

Requests for media access will be made to the ESD or ED by the Public Information Duty Representative or the Media Center Lead.

Communications will provide the ED/ESD with the number of media to gain site access, areas to be accessed and length of time the media will be there. (Communications will decide the number of media gaining access based on conditions at the time of the emergency. An attempt will be made to gain access for, at a minimum, one representative each from radio, television, and print media.)

Communications will provide media transportation on and off site.

Communications will have each member of the media sign a Media Access Briefing Form, Exhibit 18, indicating they were briefed about the risks as they were known at the time by the Corporation.

1. If media access does not involve entry into a posted radiologically controlled area:

   a. At Oyster Creek, Security will retain responsibility for sign in and badging.

   b. Communications will supervise and escort the media while on site.

   c. Communications will conduct a briefing explaining the radiological and industrial conditions and risks on site.

2. If media access involves entry into a posted radiologically controlled area:

   a. Media will be processed as appropriate, receiving dosimetry, training, bioassay, waivers and briefings based on established procedural requirements.

   b. Communications will notify the Security Coordinator prior to site access.

   c. Communications in conjunction with Radiological Controls will supervise and escort the media while in posted radiologically controlled areas.

ED/ESD Responsibilities

1. The ED/ESD will consult with the RAC/Group Leader R&EC, and media will be granted access if the projected dose will not exceed the 500 millirem annual limit including external and internal exposure.

NOTE
For Security Driven Events, media access to the site must also be approved by the local Law Enforcement Agency and Security.

2. Approve media access to the site if requirements are met.

EXHIBIT 15

SAMPLE

OYSTER CREEK GENERATING STATION
EMERGENCY COMMUNICATIONS

Communicator Log

Location: _____ **Date:** _____

Name: _____

Time:	Remarks:

EXHIBIT 16

SAMPLE

Number _____

Emergency Message

To: OSC TSC EACC _____
ECC EOF Staff Position/Other

Message:

Originator: _____ _____ _____
Staff Position Initials Time Date

Location: **ECC** **TSC** **OSC** **EACC** **EOF**

Reply:

Reply Completed by: _____ _____ _____
Staff Position/Other Initials Time Date

A0001731 10-84

EXHIBIT 17 HIFAX LOG
SAMPLE

MESSAGE	TIME	SEND INITIAL	TSC	OSC	EOF	ECC	COMMENTS
			TSC	OSC	EOF	ECC	COMMENTS

EXHIBIT 18

MEDIA ACCESS BRIEFING FORM

I have been briefed about the risks, both industrial and radiological, to which I may be exposed while at this nuclear facility. I understand there may be some risk and willingly accept it for the purpose of visiting the plant site.

Signature_____

Date_____

News Organization_____

Communications Rep._____

EXHIBIT 19

PAR NOTIFICATION FORM

NOTE

Personally provide the PAR to the Senior State Official at the State EOC, within 15 minutes of a General Emergency. Verify that you are speaking to the Senior Official at the State EOC when providing the PAR. If the PAR is provided prior to State EOC activation, the State has agreed that the State Dispatcher will be considered the "Senior State Official".

INITIAL PAR

☐ We recommend evacuation for the general population within 2 miles of the plant and Compass Sectors _____, _____ and _____ out to a distance of _____ miles. We also recommend Sheltering, for the general population within all other areas of the EPZ.

☐ We recommend Sheltering for the general population within the 10 mile EPZ.

EXPANSION OF PAR

☐ We recommend evacuation for the general population within _____ miles of the plant and Compass Sectors _____, _____ and _____ out to a distance of _____ miles. We also recommend sheltering for the general population within all other areas of the EPZ.

☐ We recommend evacuation for the general population within _____ miles of the plant.

Signature_____ Time_____ Date_____

Senior State Official Notified_____ Time_____ Date_____

AmerGen An Exelon/British Energy Company	OYSTER CREEK EMERGENCY PREPAREDNESS IMPLEMENTING PROCEDURE	Number EPIP-OC-.26

Title
THE TECHNICAL SUPPORT CENTER

Revision No.
23

Applicability/Scope	Usage Level	Responsible Department
Applies to work at Oyster Creek Division & Support Divisions	**1**	Emergency Preparedness

This document is within QA plan scope X Yes ___ No
50.59 Reviews Required ___ Yes X No

Effective Date
(06/25/01) 07/05/01

Prior Revision 22 incorporated the following Temporary Changes:

N/A

This Revision 23 incorporates the following Temporary Changes:

N/A

List of Pages (all pages rev'd to Rev. 23)

1.0 - 5.0
E1-1 to E1-20
E2-1
E3-1 to E3-4
E4-1 to E4-2
E5-1 to E5-2
E6-1
E7-1
E8-1 to E8-2
E9-1 to E9-2
E10-1 to E10-6
E11-1 to E11-3
E12-1
E13-1 to E13-4
E14-1
E15-1 to E15-2
E16-1
E17-1
E18-1
E19-1
E20-1
E21-1

	Signature	Concurring Organization Element	Date
Originator		Emergency Planner	6/18/01
Concurred By		Plant Manager	6/22/01
Approved By	FOR J. GRISTWOOD.	Emergency Preparedness Mgr, O.C.	6/25/01

DOCUMENT HISTORY

REVISION	DATE	ORIGINATOR	DESCRIPTION OF CHANGE
11	12/94	A. Smith	Update GPUN/NRC response interface criteria per NUREG-1471. Add Exhibit 15 for media access during emergencies.
12	02/95	A. Smith	Provide guidance for Media access during Security driven events and add current time of events statement to Exhibit 1F.
13	06/95	A. Smith	Update facility titles and changes to facility locations due to elimination of trailer complexes. Delete Energy Spectrum as an alternate location for AEOF. Also renumber pages to eliminate blank page.
14	11/95	T. Blount	Corrects typo's, upgrade and modify ED Deviation Authorization Form based on feedback.
15	10/96	T. Blount	Change PAR guide and Logic diagram to make Evacuation Preferred recommendation. Deleted reference to AEOF based on Rev. 11, E Plan change. Deleted TSC Layout diagram since it is normally set up.
16	06/97	A. Smith	Reflect recent improvements in Technology and incorporate communicator activities from EPIP-OC-.04.
17	08/98	A. Smith	Improve & clarify ED Assistants first step on checklist. Reword press release reviews for ED Assistant to be consistent with EPIP-OC-.25. Which is less ambiguous. Make Tech. Assistants checklists responsibilities instead of check offs.
18	02/99	A. Smith	EPIP-COM-.44 and EPIP-COM-.45 have been changed to Oyster Creek site specific procedures and the new numbers are EPIP-OC-.44 and EPIP-OC-.45 (reference EP changes 98-021 & 98-022)
19	05/99	A. Smith	Revise the public information process. Change reporting of Tech Assistant to the ED instead of Comm. Coord.
20	10/99	A. Smith	Clarify Core Eng. reporting to ECC then TSC.
21	DOS	A. Smith	Change references from GPU to OCNGS.
22	11/00	A. Smith	Correct titles & typos; remove media checklist; clarify 50.54 format; clarify GOS/CRO relationship for initial OSC Coord.
23	06/01	R. Finicle	Revised Exhibit 1 regarding personally providing the PAR to the Senior State Official at the State EOC. A new exhibit, Exhibit 21 "PAR Notification Form" has also been added.

1.0 PURPOSE

1.1 This procedure provides for the activation, operation, deactivation, and evacuation of the Technical Support Center (TSC).

2.0 APPLICABILITY/SCOPE

2.1 This procedure applies to TSC personnel.

3.0 RESPONSIBILITIES

3.1 The Initial Response Emergency Organization Emergency Director (ED) is responsible for completing Exhibit 1 and implementing Exhibit 9 and 21 as appropriate.

3.2 The ED Assistant is responsible for assisting in completing Exhibit 1.

3.3 The Tech Support Center Coordinator is responsible for completing Exhibit 3.

3.4 The Tech Support Engineers are responsible for completing Exhibit 4 and 5.

3.5 The Chemistry Coordinator is responsible for completing Exhibit 6.

3.6 The Radiological Assessment Coordinator is responsible for completing Exhibit 7.

3.7 The Radiological Assessment Support Engineer is responsible for completing Exhibit 8.

3.8 The Core Engineer is responsible for implementing Exhibit 14.

4.0 PROCEDURE

4.1 Initial Response Emergency Organization (IREO) personnel assigned to the Technical Support Center (TSC) will report to the TSC when they are notified of activation of the IREO and perform the responsibilities identified in their assigned exhibits to this procedure and as requested by their emergency organization supervisors.

5.0 REFERENCES

5.1 2000-PLN-1300.01 OCNGS Emergency Plan.

5.2 OEP-ADM-1319.02, "Emergency Response Facilities and Equipment Maintenance"

5.3 EPIP-OC-.01, "Classification of Emergency Conditions"

5.4 EPIP-OC-.27, "The Operations Support Center"

5.5 2000-ABN-3200.30, "Control Room Evacuation"

5.6 1820-IMP-1720.01, "Emergency Communications Implementing Procedure"

5.7 EPIP-OC-.03, "Emergency Notifications"

6.0 EXHIBITS

6.1 Exhibit 1, Emergency Director Checklist.

6.2 Exhibit 1A, Emergency Director Turnover Checklist.

6.3 Exhibit 1B, Protective Action Recommendation Guide.

6.4 Exhibit 1C, Oyster Creek PAR Logic Diagram.

6.5 Exhibit 1D, Emergency Director Responsibilities.

6.6 Exhibit 1E, NRC Emergency Response Interface Criteria.

6.7 Exhibit 2, Control Room Evacuation.

6.8 Exhibit 3, TSC Coordinators Checklist.

6.9 Exhibit 4, TSC Communications Coordinator Checklist.

6.11 Exhibit 5, TSC Engineers Responsibilities.

6.12 Exhibit 5A, TSC Technical Assistant Responsibilities.

6.13 Exhibit 6, TSC Chemistry Coordinators Checklist.

6.14 Exhibit 7, TSC Radiological Assessment Coordinators Checklist.

6.15 Exhibit 8, TSC Radiological Assessment Support Engineer Checklist.

6.16 Exhibit 9, Press Release Approval Guidance.

6.17 Exhibit 10, Plan for Storage and transfer of Contaminated Water.

6.18 Exhibit 11, Relocation of the TSC.

6.19 Exhibit 12, Alternate Emergency Response Facilities.

6.20 Exhibit 13, Emergency Director Authorization Form for Deviations from Requirements.

6.21 Exhibit 14, Core Engineers Responsibilities.

6.22 Exhibit 15, Site Access Policy for Media During Emergencies.

6.23 Exhibit 16, Emergency Shift Schedule.

6.24 Exhibit 17, HiFax Log.

6.25 Exhibit 18, Communications Log.

6.26 Exhibit 19, Emergency Message Form.

6.27 Exhibit 20, Media Access Briefing Form.

6.28 Exhibit 21, PAR Notification Form

EXHIBIT 1

Emergency Director's Checklist

NOTE

The Emergency Director may initially report to the ECC to assess plant status. He may assume ED duties in the ECC but should activate the TSC once relocated to it in a timely manner. The ED Assistant will assist with the completion of this checklist but may not assume ED responsibility as delineated in Exhibit 1D.

Initials

1.0 Activate the TSC by performing these steps:

_____ 1.1 ED Assistant (EDA) has confirmed that the following areas are functional **(Areas need not be 100% activated to be considered "functional")**. Once the following areas are functional inform the ED that the center is ready to be activated and receive him if not already in TSC.

Technical Support
Radiological Assessment
Communications link to Control Room and OSC

_____ 1.2 The ED will complete Exhibit 1A of this procedure by obtaining a turnover from the Shift ED (GSS/SSM). This may be done in the Emergency Control Center, face to face, or may be done from the TSC by phone.

_____ 1.3 Brief the TSC staff including NRC (if available).

_____ 1.4 Once the above steps have been completed, inform the Shift ED that you are ready to assume your position as ED and will take over ED responsibilities (Exhibit 1D contains these for reference).

_____ 1.5 Announce to the TSC staff that you are the ED, the TSC is activated and will assume Site Command and Control and off site notifications if appropriate. Notify site protection security supervisor that the TSC is activated.

_____ 1.6 Review all press releases related to the emergency that have been approved for release by the Shift ED. **Only the ED can approve.**

_____ 1.7 Log TSC Activation time in ED Log.

EXHIBIT 1

Emergency Director's Checklist
(cont'd)

Initials

2.0 TSC Operations

_____ 2.1 TSC information exchanges should take place periodically (approximately one every hour) with NRC (if available), RAC, Technical Support Coordinator, Technical Assistant, ED Assistant, EAA Coordinator and other staff as necessary. Log briefing time and synopsis of briefing in ED Log for each occurrence.

_____ 2.2 EDA or designee to maintain the ED's log and track assigned action items.

2.2.1 Action items resulting from ED assignments shall be logged and tracked, and their disposition should be discussed periodically. The rolling white board or the PC may be used to display Action Items.

_____ 2.3 If the ED leaves the TSC for any reason, as the ED assistant, assume the person-in-charge until the ED returns.

NOTE 1

This does not include assuming ED responsibilities (see exhibit 1D for reference).

NOTE 2

Interrupt the ED Conferences or phone calls to inform him of major plant changes or as other conditions warrant.

_____ 2.4 EDA to brief NRC and provide liaison.

_____ 2.5 When the EOF is activated the ESD will seek an initial briefing. There after the ED should periodically brief the ESD approximately hourly or as conditions change. The ESD may take this briefing with his staff (and NRC/BNE) via a speaker phone.

NOTE

These briefings shall be general in nature. Technical discussions should be conducted between the TSC and EOF engineering staff to ensure accuracy.

_____ 2.6 EDA is point of contact for NEI or EPRI or INPO.

EXHIBIT 1

Emergency Director's Checklist
(cont'd)

Initials

_____ 2.7 EDA directs efforts as appropriate for the following groups:

- Communicates through the ECC and TSC communications coordinators.
- Security through the Security Shift Commander.
- Emergency Assembly Area through Security or the EAA coordinator.

_____ 2.8 Ensure that any TSC or Security teams are tracked by the OSC.

_____ 2.9 Review, as appropriate, Exhibit 1E, NRC Emergency Response Interface.

3.0 Site ED Page

_____ 3.1 Periodic briefings (hourly or when major changes in plant status have occurred) should take place using the ED page system. This system goes to all on-site Emergency Response Facilities (OSC, ECC, Main Gate, North Gate, TSC).

4.0 Press Releases (If not yet assumed by ESD)

4.1 Press releases should be issued within approximately one hour from the time that a major plant event has occurred. "Draft" press releases shall have a timely review. Refer to Exhibit 9 for additional guidance.

NOTE

Pre-approved boiler plate press releases are contained in Procedure 1820-IMP-1720.01, Attachment 1. Boiler plate information need not have the ED/ESD approval.

4.2 Once the Governor has declared a "state of emergency", ensure all OCNGS press releases are provided to the state police representative at the Media Center for review and agreement.

EXHIBIT 1

Emergency Director's Checklist
(cont'd)

Initials

5.0 On-site Protective Actions

_____ 5.1 If any of the off-site OCNGS Emergency Response Facilities are downwind of a radioactive release, provide for their monitoring and protection (e.g., RAA at Forked River). Exhibit 1B provides guidance.

5.1.1 If these OCNGS facilities are within sectors that were ordered to evacuate by the State, then they should be relocated to an alternate facility.

_____ 5.2 If site accountability has been ordered, ensure it is logged on PAR status board, in the ED's log, and communicated to the ESD. Direct the C.R. to make the appropriate page announcement for accountability. If needed, provide the route to the EAA(OCAB/Warehouse).

_____ 5.3 If a site evacuation has been ordered, ensure provisions are made for providing site employees with instructions on reporting to work for the next business day. Site evacuation should be logged on PAR status board, ED's log, and communicated to ESD.

6.0 Changes to Emergency Classifications

NOTE

If the Communications have not been turned over to the EOF, off-site notifications must be made within 15 minutes of an emergency declaration.

6.1 Immediately notify the ECC Communications Coordinator of any changes in emergency classifications and direct the notifications be completed.

6.1.1 All notifications for on-site and off-site should be conducted from the Control Room if available, until the off-site notifications are assumed by the EOF. Upon changes in classes direct the Control Room (ECC Comm Coord) to complete the appropriate notifications. This directions satisfies the approval of such notifications.

6.1.2 If off-site notifications have been turned over to EOF, immediately confer with ESD on the need to reclassify the emergency. Remind him to ensure appropriate off-site notifications are made within 15 minutes.

6.2 Log any changes in classification in the ED Log.

EXHIBIT 1

Emergency Director's Checklist
(cont'd)

Initials

7.0 Off-site Protective Action Recommendations (PAR)

NOTE
These actions shall be performed if off-site PAR responsibility is not turned over the ESD. They may be done in parallel if responsibility has been turned over.

_____ 7.1 At the Site Area Emergency, review the PAR Logic Diagram (Exhibit 1C) in preparation for a General Emergency declaration.

_____ 7.2 At the General Emergency, immediately review the PAR Logic Diagram (Exhibit 1C) with appropriate staff members. Develop a PAR using Exhibit 21 (PAR Notification Form) and personally covey the PAR to the Senior State official of the State EOC within 15 minutes from the GE declaration.

7.3 OCGS should attempt to obtain agreement from the NJBNE and NRC on the PAR. However, whether agreement is or is not reached, OCGS shall communicate its PAR to the Senior Official at the State EOC State within approximately 15 minutes from the time the GE was declared.

7.4 The PAR should <u>not</u> be included in press releases.

7.5 The ED should ascertain from the Senior State Official at the State EOC what protective action has been implemented off-site (≈ 45 min. after providing PAR). This should be provided to NRC via the ENS Line as required by 10-CFR 50.72 - follow-up Notifications - (if not done by ESD). Off-site protective action and time implemented should be logged in ED's Log.

8.0 All deviations from procedures, equipment operating limits, Technical Specifications, License, and License Conditions will be authorized and documented using the guidance in Exhibit 13.

EXHIBIT 1
Emergency Director's Checklist
(cont'd)

Initials

9.0 NRC Interface

_____ 9.1 The Security Plan allows that "when ever site conditions are, or may soon become, a danger to the public health and safety, certain safe guards measures may be suspended in accordance with the following requirements. The action taken is approved by the Manager of Plant Operations, Operations Group Shift Supervisor or Emergency Director. If the ED is not a licensed SRO, he/she must consult with a licensed SRO prior to authorizing the Suspension of any safeguards measures".

9.1.1 Security is able to process the NRC site response team rapidly if the ED (GSS/SSM) authorizes their immediate access under the above Security Plan provision. Any such authorization should be logged.

9.1.2 If this provision is not used it will likely take 2-3 hours to train, badge and allow access to the whole NRC team. This delay will detract from the functioning of the NRC Team but is clearly at the judgment/discretion of the ED.

NOTE
An alternative to waiving access requirements is to arrange for escort.

9.1.3 NRC immediate access under this Security Plan provision is meant to provide access to emergency centers only, not site wide access, RWP access or approve respiratory protective equipment use.

_____ 9.2 Brief the NRC upon arrival and determine if the Senior NRC person is the Site Team Leader or
Director, Site Operations (see Exhibit 1E for reference).

9.3 NRC directives can only be received by the ESD (or in the ESD's absence, the ED). NRC should be requested to provide all directives in writing.

EXHIBIT 1

Emergency Director's Checklist
(cont'd)

Initials

_____ 9.4 As time permits, discuss with the senior NRC person in the TSC the OCNGS emergency organization. Discuss that the ED oversees site related activities, maintaining general (not detailed) cognizance of reactor operations and that while the ESD oversees the whole emergency effort, he concentrates on off site interfaces and issues.

_____ 9.5 If media access to the site is requested, refer to Exhibit 15, "Site Access Policy for Media During Emergencies".

_____ 10.0 Long-term Recovery

10.1 Refer to Procedure EPIP-OC-.45 for Long-term Recovery and discuss its implementation with the ESD.

10.2 If a General Emergency is in effect, OCNGS will not de-escalate to a lower level of emergency. The only option is to go into Long-term Recovery and this transition shall not occur until all off-site protective actions have been completed and the State has been informed.

10.3 Establish long term staffing requirements and prepare appropriate watch bill.

11.0 Control Room Evacuation

11.1 Review Exhibit 2A for guidance.

12.0 TSC Relocation

12.1 Should the TSC be or become unavailable (e.g. due to Fire, Security Event, etc.) refer to Exhibit 11 which provides guidance for the establishment of TSC functions in alternate locations.

12.2 A description of evacuation preplanning for other Alternative Response Facilities is provided in Exhibit 12.

Name_____ Date_____ Time_____

EXHIBIT 1A

EMERGENCY DIRECTOR TURNOVER CHECKLIST

NOTE

This form may be completed by ED in the Control Room or via phone. It may be used to brief NRC representatives upon their arrival.

EMERGENCY CLASSIFICATION — DATE/TIME OF DECLARATION

UNUSUAL EVENT _____

ALERT _____

SITE AREA EMERGENCY _____

GENERAL EMERGENCY * _____

Reactor Power at time of event _____% BRIEF DESCRIPTION OF THE EMERGENCY

_____

_____

_____

_____

CURRENT PAR STATUS * (Required for General Emergency) _____

STATUS OF ACCOUNTABILITY/ON-SITE PROTECTIVE ACTIONS _____

PRESENT STATUS OF PLANT/TIME OF DATA: _____ DATE: _____

_____ AT POWER (_____%)

_____ Hot Standby

_____ Hot Shutdown

_____ Cooling down (describe cooldown mode) _____

_____

_____

EXHIBIT 1A (Continued)
EMERGENCY DIRECTOR TURNOVER CHECKLIST

Estimated time to 'STABLE' plant conditions _____ hours

Did reactor trip? YES - NO

Did ECCS activate? YES - NO

Is off-site power available? YES - NO

Are both Diesel Generators operable? YES - NO

Are Diesels Running? #1 YES - NO #2 YES - NO

Are the Station Blackout CT's Available? YES - NO

Is fuel integrity maintained? YES - NO

Is containment integrity maintained? YES - NO

If no, specify _____

_____

Do you suspect there is a release
(monitored or unmonitored) in progress? NO YES N/A

If yes, specify pathway: _____

Is release AIRBORNE RELEASE LIQUID RELEASE UNKNOWN

Plume dispersion ELEVATED GROUND N/A

Details: _____

_____

Are there any abnormally high implant radiation levels? YES - NO

Specify location _____

_____

Are there any personnel injuries? YES - NO

Provide status _____

_____

Were there any news releases issued? YES - NO

Specify _____

_____

EXHIBIT 1A
(continued)

EMERGENCY DIRECTOR TURNOVER CHECKLIST

Are there any open technical issues? YES - NO

Specify _____

_____

News releases issued ATTACHED

NOTES:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

When finished sign below:

_____ _____ _____
Emergency Director Time Date

EXHIBIT 1B

PROTECTIVE ACTION RECOMMENDATION GUIDE

1.0 On-site

1.1 Inform the OSC Coordinator of personnel who were dispatched in support of emergency before the OSC was activated.

1.2 Relocate site personnel from areas of hazard or where the dose is projected to exceed 1000 mRem Total Effective Dose Equivalent (TEDE). Consult RAC.

1.3 Evacuation of any area, site accountability, and site evacuation may be ordered at the discretion of the Emergency Director.

Accountability is required at the declaration of a Site Area Emergency, or at the discretion of the ED in accordance with the E-Plan.
Site Evacuation is required at the declaration of a General Emergency, or at the discretion of the ED in accordance with the E-Plan.

NOTE
During Drills do not initiate Site Accountability or Site Evacuation without Drill Controller agreement. During Real Events accountability and evacuation shall be conducted in accordance with the E-Plan. If the Main Gate is evacuated, accountability can not be conducted.

1.4 Consider protective actions such as: securing ventilation, access control, Safety Department support.

1.5 Consider protective actions such as: leaving the site, sheltering, or evacuation to an assembly area for OCAB, Forked River Site, Combustion Turbine Site, Southern Area Stores Warehouse and Trailer 300. If action is necessary, personnel may be informed by the following mechanisms:

1.5.1 Contact Security Shift Supervisor to make a page announcement on the Forked River Site and Trailer 300.

AND

1.5.2 Direct Security Shift Supervisor to dispatch a patrol to the affected areas to direct personnel to take the prescribed protective actions. Consider Security manpower requirements when taking this action.

OR

1.5.3 Direct available personnel (e.g., from OSC) to go to the affected areas to direct personnel to take the prescribed protective actions.

EXHIBIT 1B
(cont'd)

PROTECTIVE ACTION RECOMMENDATION GUIDE

1.6 Consider use of KI if personnel have been exposed to significant radioactive Iodine. Consult RAC and Medical representative. EPIP-OC-.44 provides guidance.

1.7 Consider the need for security to control access to hazardous areas outside the RCA or outside the Protected Area.

1.8 Emergency Exposure Guidelines

A.	Voluntary Life Saving Actions	No Pre-established limit
B.	Corrective Actions	Administrative Guidelines
	1. Total Whole body dose (TEDE)	10 Rem
	2. Lens of the eye	30 Rem
	3. Total organ dose	100 Rem

2.0 Off-site

2.1 At the General Emergency, review the Protective Action Logic Diagram and provide PAR to the State within 15 minutes of declaring the General Emergency.

2.1.1 The guidance provided by the NRC for a Protective Action Recommendation at a General Emergency is **Evacuation 2 miles in 360 degrees and 5 miles downwind. Shelter all other non-affected** areas of the 10 mile EPZ.

> NOTE
>
> If PAGs are exceeded, or are expected to be exceeded, beyond the 10 mile EPZ, assess the impact on an Ad Hoc Basis (i.e. Field Monitoring Team Data or Hand Written Contingency Calculations), and provide recommendations as appropriate.

2.1.2 Under certain circumstances it is permissible to recommend Sheltering if it is **known** that **Sheltering WILL PROVIDE GREATER PROTECTION.**

2.1.2.1 This would most likely occur only for short (puff) release periods that are less than 1.5 Hrs. (which is substantially shorter than the evacuation time).

2.1.2.2 There must be strong assurance that there is definite control of the release and termination of the release by the positive actions of the emergency responders actions during the release process (such as Containment Venting).

EXHIBIT 1B
(cont'd)

PROTECTIVE ACTION RECOMMENDATION GUIDE

2.1.3 Sheltering may be the protective action of choice, if rapid evacuation is impeded by:

a) severe environmental conditions-e.g. severe weather or floods;
b) physical constraints to evacuation-e.g. inadequate roads

NOTE

The information in 2.1.3 a & b **MAY ONLY BE AVAILABLE from previous discussions** with New Jersey Office of Emergency Management or New Jersey Bureau of Nuclear Engineering Personnel.

2.2 During a Site Area Emergency, Protection Action Recommendations should not be immediately necessary, however, the PAR Logic Diagram should be reviewed.

2.3 Off-site protective actions should not be required during an Unusual Event or Alert.

EXHIBIT 1C

OYSTER CREEK
PAR LOGIC DIAGRAM

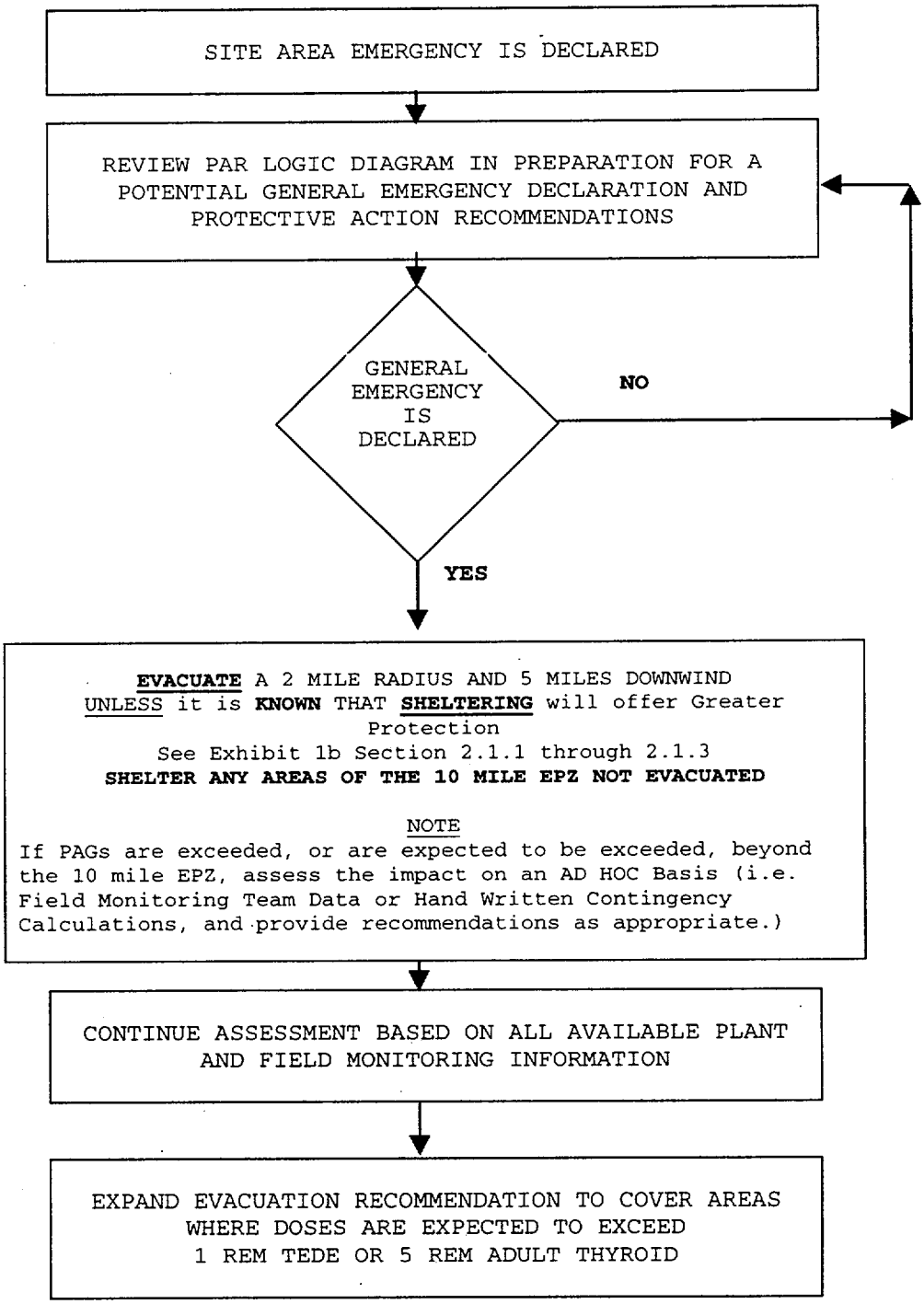


EXHIBIT 1D

EMERGENCY DIRECTOR RESPONSIBILITIES

The ED is vested with certain authority and responsibilities that may not be delegated to a subordinate. Included are:

A. Approving and directing official notifications to off-site agencies.

B. Approving and directing information releases to the media. ED/ESD approval is not required for public announcement of formal emergency declaration and changes of emergency classifications, or other pre-approved boiler plate news releases as contained in Procedure 1820-IMP-1720.01, Attachment 1.

C. Approving and, if possible, personally conveying appropriate Protective Action Recommendations to the New Jersey Office of Emergency Management.

D. Serve as principle "point of contact" for receiving NRC directives.

E. Classification of an emergency event.

F. Directing on-site evacuation at the Alert or lower level emergency classification based on potential hazard to nonassigned personnel.

G. Authorizing emergency workers to exceed 10 CFR 20 Radiation Exposure Limits in accordance with Exhibit 1b.

H. Approving and directing deviation from established operating procedures, normal equipment operating limits, or technical specifications during attempts to control the plant emergency/or during a declared National Security Emergency.

NOTE: For National Security Emergencies, the following conditions must be met.

1. When this action is immediately needed to implement national security objectives as designated by the National Command Authority through the NRC.

and

2. No action consistent with license conditions and technical specifications that can meet national security objectives is immediately apparent.

EXHIBIT 1D
(continued)

EMERGENCY DIRECTOR RESPONSIBILITIES

NOTE: In essence, no one below a licensed SRO individual can make the decision to depart from the license. However, if a more senior manager is present (i.e., Emergency Director) even though he may not posses an SRO license, the decision authority would be passed to him as a higher authority in the chain of command. The licensed SRO shall provide his best judgment to the ED for his consideration. Beyond that, the SRO shall follow the orders of his supervisor. It is imperative that the Emergency Director consult the SRO, and the Technical Support Center to the fullest extent practicable in arriving at a decision to deviate from prescribed procedures. However, Emergency Operating Procedures should generally not be deviated from. If the decision is made to depart from licensee conditions or technical specifications, notify the NRC before taking such actions, if time permits or if time does not permit then within one hour.

When the Emergency Support Director (ESD) arrives at the EOF and declares himself to be ready to assume that role, he will assume overall responsibility for management of the response to the accident and recovery operations. With the activation of the Emergency Support Direction function, the ESD specifically will assume decision authority for Items A, B, C, and D. However, decision authority for Items E, F, G, and H will be retained by the ED. Decisions on all of the listed actions normally will result from close and continuous consultation between the ED and the ESD, and it shall be the responsibility of the ED to ensure the ESD is provided with the necessary information to arrive at timely and appropriate decisions. In the special case of event classification, the ESD shall retain the prerogative to overrule the ED if, in the judgment of the ESD, uncertainty or other considerations exist to the extent warranting classification of higher level of emergency than that classified by the ED.

EXHIBIT 1E

NRC EMERGENCY RESPONSE INTERFACE CRITERIA

This is a synopsis of the NRC emergency response process as it applies to OCNGS.

In essence, directives from the NRC must come from the NRC Director (typically, the NRC Chairman) or from the NRC Director of Site Operations (typically, the NRC Regional Administrator). Such advice or directive can only be communicated to the Emergency Director (the Emergency Support Director once the EOF is activated). If a directive order is issued by the NRC Director or Director of Site Operations, the ED/ESD should request written confirmation which spells out the specific nature of the directive.

While NRC advice may be challenged by the ED or ESD, directives must be complied with.

With respect to Protective Action Recommendations for the public, the NRC may either endorse the OCNGS recommendation or opt to recommend a different one. The ED/ESD is encouraged to include the NRC and State representatives in the Protective Action Recommendation discussions in order to arrive at a mutually agreeable recommendation. In the event that the NRC opts to recommend a different recommendation, they will communicate directly with the State. Their recommendation, like the utility recommendation, will be considered by the State in the development of a Governor directive.

Upon arrival of the NRC, the ED/ESD should:

- Verify who is the senior NRC person in charge
- Ask the senior NRC person to inform the ED/ESD when the position of Director Site Operations is assumed and whether the responsibility to issue directives is included.
- Request that the NRC keep OCNGS informed of all substantive information exchanges between the NRC and the slate.
- Request the NRC provide all directives in writing.

SYNOPSIS - NRC EMERGENCY RESPONSE

NOTE

Review the following as time permits and/or if the NRC is expected to respond.

Revision 2 to NUREG-0728, supplemented by NUREG-0845 and NUREG-1471, describes the manner in which the NRC will respond to an incident and provides criteria for making preplanned response decisions. They provide procedural guidance, describe the functions related to NRC emergency response, and define procedures for responding to the following NRC modes of operation.

EXHIBIT 1E

NRC EMERGENCY RESPONSE INTERFACE CRITERIA

Each mode defines the scope of NRC activities related to a particular level of emergency response in ascending order of degree of involvement to deactivation. The various modes are characterized as follows:

1. Normal mode - Normal activities designed to maintain readiness.

2. Standby mode - Regional office activates the Incident Response Center (IRC with an appropriate staff and NRC Headquarters Operations Center staffed by a standby team.

3. Initial activation - NRC Operations Center is staffed by a response team, the Regional IRC is fully activated and a site team is dispatched under the leadership of the Regional Administrator, normally designated as Director of Site Operations (DSO).

4. Expanded activation - Focus on NRC response operations is shifted to the site. DSO is designated primary spokesman for the NRC and may be empowered with directive authority by the Chairman of the Nuclear Regulatory Commission.

5. Deactivation - Follow-up activities (e.g., reviews, investigation, and recovery operations).

The particular mode assumed by the NRC will be dependent upon licensee event classification and "independent NRC perception of relative severity of uncertainty of accident conditions."

NRC ADVICE

The NRC may offer advice or assistance to the Licensee during an emergency, or may respond to Licensee requests for advice or assistance. This may involve diagnosis of critical problems, development of proposed remedial courses of action, and proposals to implement additional precautionary measurers. The NRC is also prepared to direct that certain actions be taken if, after thorough discussion with the Emergency Director (the Emergency Support Director once the EOF is activated) it is decided that such direction is required. In the event that such action is taken by the NRC Director or the NRC Director of Site Operations, the ED/ESD should request written confirmation which spells out the specific nature of the directive.

Directives will be communicated directly to the ED/ESD from the NRC Director (NRC Chairman) or from the NRC Director of Site Operations (DSO), typically the Regional Administrator, once appointed and empowered to do so.

Several important concepts govern the NRC in providing advice, assistance, or direction. They are:

a. The Licensee is at all times responsible for mitigating the consequences of the incident.

b. Although the NRC could issue formal orders to the Licensee to take certain measures and to monitor implementation, ". . . licensee continues to make other key operational decisions and to operate and manage the facility.

c. The NRC must have a single voice when advising or directing the Licensee.

d. The ED/ESD has the option to accept or challenge NRC advice.

EXHIBIT 1E
(continued)

NRC EMERGENCY RESPONSE INTERFACE CRITERIA

At no time will advice or direction come from both the Director and DSO and the Licensee will always be kept apprised of who is empowered to exercise authority as the NRC Spokesman. All other NRC personnel in contact with Licensee personnel are responsible to make clear that discussions should not be construed as advice or direction but rather as a sharing or gathering of information.

NRC INPUT TO RECOMMEND PROTECTIVE ACTIONS

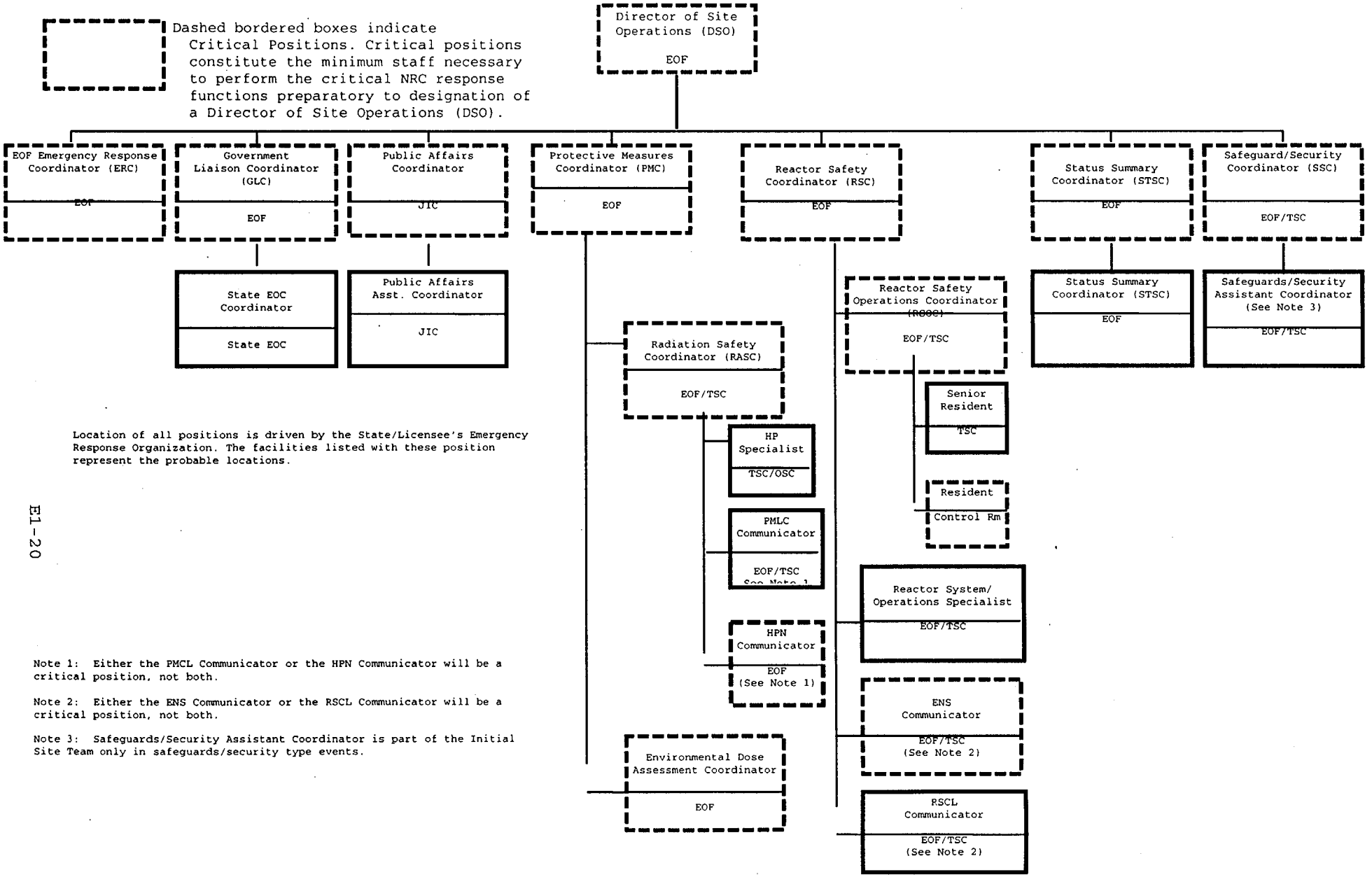
The NRC responsibility during an emergency, as during normal operations, is to ensure that protection of public health and safety is adequate. One aspect of exercise of this responsibility is to provide Protective Action Recommendations or advice to off-site authorities. This may take the form of an NRC endorsement of a Licensee Protective Action Recommendation or the NRC may opt to recommend additional protective actions. The NRC is not involved in the process of recommending Protective Actions, the NRC may get involved if a major problem is identified with the protective actions recommended by the licensee or protective actions undertaken by the state or local government. Additionally NRC involvement may be requested by state or local officials.

NRC ORGANIZATION

The attachment to the synopsis is provided for your information. This attachment depicts the site team organization and is an extract of the Region I supplement. It defines the number of NRC personnel expected to operate in each facility and shows the lines of communications the NRC expects to use.

NRC SITE ORGANIZATION - INITIAL SITE TEAM

Dashed bordered boxes indicate Critical Positions. Critical positions constitute the minimum staff necessary to perform the critical NRC response functions preparatory to designation of a Director of Site Operations (DSO).



Location of all positions is driven by the State/Licensee's Emergency Response Organization. The facilities listed with these position represent the probable locations.

Note 1: Either the PMCL Communicator or the HPN Communicator will be a critical position, not both.

Note 2: Either the ENS Communicator or the RSCL Communicator will be a critical position, not both.

Note 3: Safeguards/Security Assistant Coordinator is part of the Initial Site Team only in safeguards/security type events.

EXHIBIT 2

CONTROL ROOM EVACUATION

CR evacuation is guided by Operations Procedures. Should it be necessary Operations personnel will establish plant control via the remote shut down panels. If the CR evacuation is the initiating event, CR staff will implement their procedures and declare an Alert, activating the Emergency Response Organization. Operations Management will locate in the TSC. If the ERO is already activated, several ECC personnel will report to the TSC.

In either case guidance for integrating these resources into the TSC staff follows:

- OPs Coordinator with Technical Assistant
- GSS/SSM, STA will require table space in back of TSC to guide operators by radio.
- ECC Communicators - to Communications Coordinator for deployment in TSC, other centers, Remote Assembly Area or home.
- ECC Communications Coordinator is licensed and may be of use to OPs Coord, GSS/SSM, TSC Coord, EOF or as NRC liaison. Discuss these arrangements with the OPs Coordinator and deploy personnel accordingly.

EXHIBIT 3

TSC Coordinators Checklist

Initials

1.0 TSC Activation

_____ 1.1 The TSC should be declared ready for the ED when the following areas are functional:

NOTE
These areas need not be 100% staffed to be considered functional.

- Radiological Assessment
- Technical Support (appropriate engineering expertise)
- Communications links to Control Room and OSC

NOTE
The following actions should be performed expeditiously but are not necessary to declare the TSC functional.

_____ 1.2 When possible perform, or have a Technical staff member perform, a briefing of the TSC staff prior to the ED's arrival. This should provide the staff with the current emergency conditions

_____ 1.3 Ensure all required TSC personnel use the position tag board and display position tags.

_____ 1.4 Ensure the RASE has set up one entry point with a frisking station is established. Based on actual or expected emergency conditions, Rad Con will evaluate whether or not a whole body frisk is required for entry into the TSC. If a whole body frisk is required, Rad Con will post the area accordingly. Proper frisking techniques will be followed by all personnel prior to entering the TSC once the area is posted as requiring a whole body frisk.

EXHIBIT 3
(continued)

TSC Coordinators Checklist

_____ 1.5 Ensure the RASE has performed continuous air monitor preoperational checks and the system is operating.

_____ 1.6 Ensure the RASE has performed area radiation monitor preoperational checks and the system is operating.

_____ 1.7 Check duty board in back of TSC to determine positions not manned. Notify Security of unfilled positions and ask them to call out personnel. The following engineering disciplines should be adequately represented:

1.7.1 Mechanical Engineering

1.7.2 Electrical Engineering

1.7.3 Radiological Engineering

1.7.4 Instrument and Controls Engineering

NOTE
Report to the TSC Coordinator, unless needed in the ECC. If Core Engineer reports to ECC first, then the TSC Coordinator should be informed.

1.7.5 Core Engineering

1.8 Callout any additional personnel as needed. Complete staffing of this area is not necessary for TSC activation. Security through the ED Assistant can help with duty roster callouts.

_____ 1.9 Ensure one set of Emergency Plan Implementing Procedures are available at the ED's desk, the TSC Coordinator's desk, and the RAC/Chemistry Coordinator's desk.

_____ 1.10 Ensure both PCS terminals in the TSC are functioning.

_____ 1.11 Check on PCS availability at the OSC and EOF. Attempt to help the other centers bring on-line if necessary.

_____ 1.12 Check the status of the ERDS link. If necessary, work to establish the line to the NRC.

NOTE
If there is an ERDS problem it may be because the modem (located in the Computer Room) is locked up. The problem may be resolved by resetting the modem or turning it off and on.

_____ 1.13 Call Computer APPS. for additional assistance as needed.

EXHIBIT 3
(continued)

TSC Coordinators Checklist

_____ 1.14 Set TSC clock to match the time on the Plant Computer System display (during drills this time may be obtained from the controller).

2.0 TSC Operations

2.1 Accept assignments from the ED. Disposition them to TSC staff and log in the TSC Coordinator's log using Lotus Notes or paper.

2.2 If at any time it becomes necessary to operate the TSC Ventilation System review the following guidance.

2.2.1 There is a continuous indicating air monitor in the TSC which will provide indication if the need for use of the TSC ventilation charcoal filters. Rad Con is also located in the TSC and can provide guidance on use of the filters.

2.2.2 TSC Ventilation System normally operates with charcoal filters bypassed.

2.2.3 The filters are controlled by a two position covered switch on the rear column in the TSC. It is labeled Emergency/Normal. The Emergency position places the charcoal filters in service. The Normal position removes the filter from service.

2.2.4 When the charcoal filters are engaged the gauge above the Control switch should be at + 0.125 inches water or greater to assure no leakage into the room. If it is otherwise notify Radiological Controls to assess habitability and specify compensatory measures as necessary.

2.2.5 Log time charcoal filter enters and is taken out of service. This may be entered in the ED's Log.

2.2.6 Advise RAC to conduct surveys in accordance with Exhibit 8 Step 6.

_____ 2.3 Establish contact with Corporate Engineering Support and assess their status and resources. Engineering requests suited for Corporate Engineering should be sent to them, in writing if practical. Corporate Engineering will contact the TSC as soon as they are available.

_____ 2.4 Develop a shift schedule for the TSC organization Exh. (16). The current duty roster may be used to develop this schedule. Attempt to allow adequate rest time for all shifts off duty.

EXHIBIT 3
(continued)

TSC Coordinators Checklist

2.5 TSC support of site accountability.

_____ 2.5.1 Announce Site accountability to the TSC Staff and ensure that all personnel present in the TSC have key carded into the Accountability Key Card Reader.

2.6 If notified by the Security Shift Commander/designee of security computer failure, complete Steps 2.6.1 through 2.6.4.

_____ 2.6.1 Assign an individual to collect accountability cards in facility.

_____ 2.6.2 Direct individual to sort the cards into separate groups for North Gate and Main Gate.

_____ 2.6.3 Direct individual to call both Main Gate and North Gate Security with badge slot numbers within 10 minutes of initial declaration of accountability.

_____ 2.6.4 Accountability notifications completed for facility.

_____ 2.7 Should long term accident management require it, Exhibit 10 provides guidance on storage/transfer of contaminated water.

3.0 Facility deactivated by order of Emergency Director.

_____ 3.1 Documents, records, and reports delivered to Emergency Preparedness Department.

_____ 3.2 Record any equipment failures.

_____ 3.3 Refile prints and procedures as required.

_____ 3.4 Report discrepancies to the Emergency Preparedness Dept.

_____ 3.5 TSC returned to standby condition.

4.0 TSC Evacuation

4.1 Should the TSC be or become unavailable (e.g.; due to Fire, Security Event, etc.) refer to Exhibit 11 which provides guidance for the establishment of the TSC Functions in alternate locations.

NAME: _____ _____ _____
Technical Support Center Coordinator Time Date

EXHIBIT 4

TSC COMMUNICATIONS COORDINATOR CHECKLIST

INITIALS

_____ 1.0 Report to the ED Assistant and support information transmittals to ECC, OSC, EOF, BNE and NRC using Exhibit 19 or Lotus notes as appropriate.

_____ 2.0 Set the TSC clock to agree with the time displayed by the PCS. (During drills, ask the Controller)

_____ 3.0 Log appropriate activities or tasks via lotus notes or exhibit 18.

_____ 4.0 Dim the lighting in the front of the TSC to enhance data display.

_____ 5.0 Activate fax and set time in accordance with PCS Clock.

_____ 6.0 Number and log each fax transmission using Exhibit 17.

NOTE

Number outgoing transmissions sequentially regardless of the type of transmission. Use location designator as part of sequential number, i.e. TSC-001, TSC-002, etc.

7.0 When the ED Assumes command and Control in the TSC, Relay Appropriate directives to the ECC Communications Coordinator Such as:

1. Perform Off-site Notifications
2. Perform On-site Notifications
3. Transfer Notification Responsibilities.

8.0 Ensure that communications to the NRC via NRC/ENS line are made by an individual knowledgeable of plant systems. This may require callout of additional personnel. Only one Emergency Center should provide this function at one time.

9.0 Report failed communications systems to information services for resolutions when needed have security or the group leader admin. callout information services telecommunications personnel. These individuals will work under the TSC Communications Coordinator's direction to repair phone problems in emergency centers. If they must leave the SEB to effect repairs, coordinate their movements with the OSC as a repair team. A briefing via telephone is permissible if briefing items are logged. Alternately the briefing forms could be telefaxed from OSC to TSC and back. Report ENS or ERDS phone line problems (FTS-2000) to the NRC at (301) 816-5100.

EXHIBIT 4
(continued)

TSC COMMUNICATIONS COORDINATOR CHECKLIST

INITIALS

_____ 10.0 If the Plant Computer System fails, ensure that the ECC transmits critical plant parameters to the TSC every 15 minutes or as conditions change. The TSC should retransmit plant parameters to the EOF and OSC in as timely a manner as possible.

_____ 11.0 Upon termination of the emergency, if notification were made from the TSC ensure those agencies previously notified in EPIP-OC-.03 have been advised of the termination.

11.1 If Off-site notifications responsibility has been transferred, this responsibility should be transferred also, verify completion with appropriate Communication Coordinator.

_____ 12.0 Ensure communications equipment, supplies and procedures are replaced or returned to a ready status.

_____ 13.0 Forward all completed logs and records to the Emergency Preparedness Dept.

Signature _____ Date _____
TSC Communication Coord.

EXHIBIT 5

TSC Engineers Responsibilities

1.0 Report to the TSC Coordinator.

2.0 As requested assist the TSC Coordinator in activation, operation, and recovery of the TSC. Refer to his checklist (Exhibit 3) for guidance.

3.0 Perform and document engineering tasks as directed by the TSC Coordinator as needed provide appropriate information to the EOF or other activated centers.

4.0 Present all documentation generated during the performance of their duties to the TSC Coordinator.

5.0 As directed, assist TSC Coordinator in deactivation of TSC.

6.0 Should the TSC be or become unavailable (e.g.; due to Fire, Security Event etc.) refer to Exhibit 11 which provides guidance for the establishment of the TSC functions in alternate locations.

EXHIBIT 5A

TSC TECHNICAL ASSISTANT RESPONSIBILITIES

1.0 Report to the TSC Emergency Director.

2.0 Maintain Operations Conference Line in response to calls from Operations Coordinator .

3.0 Coordinate with the ED, ED Assistant and Engineering Staff in the TSC Coordinator to provide technical support to the Ops Coordinator in the ECC pertaining to various items such as:

- Equipment Failure
- EOP's Support

4.0 If operational data is not being provided as needed, actively solicit this data.

5.0 Monitor the Equipment Status Display System (ESDS) if available. Provide technical update on equipment status as necessary, validate and correct as needed.

6.0 Convey ED directives to the ECC through the Ops Coordinator as necessary. Maintain ED (TSC Staff) apprised of the operational status and activities taken by the ECC, Review EAL matrix periodically for applicability of classifications and changes to plant conditions.

EXHIBIT 6

TSC Chemistry Coordinator Responsibilities

NOTE

Chemistry Department will staff the OSC Chemistry Coordinator position first and send a Chemistry supervisor to the TSC when available.

1.0 Advise the ED and RAC on conditions related to reactor coolant chemistry including, but not limited to:

1.1 Normal chemistry sampling.

1.2 Post Accident Sampling (PASS and RAGEMS)

2.0 Coordinate with the RAC to develop source term information.

3.0 Prestage a chemistry team to obtain and analyze an effluent sample should it become necessary. This should be given the highest priority if a release begins.

4.0 Prestage a PASS team to obtain and analyze samples should it become necessary. Ensure all necessary equipment and arrangements are in place should transport of the PASS sample off-site become necessary.

5.0 Consider actions necessary to quantify all components of radiological releases. Plan a course of action which will support post accident investigation of source term released to the environment.

6.0 Should the TSC be or become unavailable (e.g.; due to Fire, Security Event, etc.) refer to Exhibit 11 for guidance.

EXHIBIT 7

TSC Radiological Assessment Coordinators Checklist

Initials

1.0 Periodically brief the ED on radiological conditions.

-- In-plant radiation and contamination levels and associated protective actions.

-- On-site (and near site) radiological conditions and associated protective actions.

-- Off-site radiological conditions including dose projections and Protective Action Recommendations until relieved of this responsibility by the Environmental Assessment Coordinator (EAC).

2.0 Routinely ensure the EAC is informed of all source term information which is available.

3.0 Coordinate with the Chemistry Coordinator to develop source term information.

4.0 Maintain the meteorological and PAR status boards.

5.0 Periodically review Radiological EAL's in EPIP-0C-.01 "Classification of Emergency Conditions". Ensure that the ED is immediately notified of any situation which meets these EALs.

_____ 6.0 At the Site Area Emergency assist the ED with review of the PAR Logic Diagram (Exhibit 1C). Provide route for Site Accountability to the ED that avoids/minimizes radiological hazards.

_____ 7.0 At the General Emergency assist the ED with development of a PAR (Exhibit 1C). Provide route for Site Evacuation to the ED that avoids/minimizes radiological hazards.

8.0 Should the TSC be or become unavailable, (e.g.; due to Fire, Security Event, etc.) refer to Exhibit 11 for guidance.

EXHIBIT 8

TSC Radiological Assessment Support Engineer Checklist

Initials

_____ 1.0 Report to the Radiological Assessment Coordinator (RAC) and provide support.

_____ 2.0 Establish one entry point with a frisking station as directed by the TSC Coordinator/Radiological Assessment Coordinator.

_____ 3.0 Place a sign on the south door, "This TSC Entrance Closed. Use other Door".

_____ 4.0 Perform an operational check on the continuous air monitor to ensure the system is operating. Report Status to the TSC Coordinator when complete.

_____ 5.0 Perform an operational check on the area radiation monitor to ensure the system is operating. Report Status to the TSC coordinator when complete.

_____ 6.0 Provide radiological evaluation on the air and ambient radiation levels of the TSC.

CAUTION
Turn on HEPA filter when continuous air monitor trends upward after initial stabilization during startup.

6.1 If HEPA filter turned on, have filters monitored periodically (approx. every 15-30 minutes)

6.2 Post area in accordance with RadCon procedures.

6.3 Advise TSC Coordinator of survey results.

7.0 Distribute self reading dosimetry to all TSC personnel.

8.0 Perform radiological hazard/ALARA analysis for investigative, corrective, and recovery actions as directed.

9.0 On an ongoing basis determine source terms for ground and elevated releases and provide to EAC.

10.0 Perform internal and external personnel exposure evaluations as necessary.

11.0 Provide on going technical support and analysis for the radiological aspects in support of radiological control activities.

EXHIBIT 8
(continued)

TSC Radiological Assessment Support Engineer Checklist

12.0 Establish Radiological Communications as the other emergency centers become activated. Maintain a Communications Log.

_____ 13.0 Activate the Dose Assessment Computer and ensure operability. Perform off-site dose calculations as requested by the RAC using actual or projected source terms.

_____ 14.0 Inform the RAC, or the TSC Coordinator in the absence of the RAC, that the TSC Radiological Work Area is ready for activation.

15.0 In the event of a radiological release, recommend on-site and near site protective actions as appropriate (see Exhibit 1B for guidance).

16.0 Maintain the Emergency Classification/PAR and Meteorology Status Board.

_____ 17.0 Present all documentation generated during the performance of their duties to the TSC Coordinator.

EXHIBIT 9

PRESS RELEASE APPROVAL GUIDANCE

1.0 Press releases should be issued within approximately one hour from the time that a major plant event has occurred. Press releases shall include the time that the information is current and be written in accordance with the following guidelines:

1.1 The following categories of information should be included in press releases.

a. Level of Emergency
This is simply identifying which one of the four emergency levels was declared.

b. Basis for Emergency Declaration
This should be a simplified description of the plant condition which produced the emergency action level (e.g., a leak of radioactive water within the plant building).

c. Operational Status of Plant
A simple description of plant status at the time of the emergency declaration (e.g., OCNGS was operating at 100% power when the leak was discovered, however, the plant is currently reducing power).

d. Company/Government Interface
This is intended to inform the public that OCNGS has notified and is working closely with government officials so that public confidence and company credibility can be increased.

e. Corrective Actions
This should be a nontechnical description of what plant personnel are doing to correct the problem. It may include such language as "attempts are being made to stop the leak" or "plant personnel are investigating the cause of the leak."

f. Off-site Impact
A statement which simply assesses what impact this event may have on the environment. This is intended to provide factual information on off-site radiological conditions (e.g., a radioactive release is in progress, however, environmental monitoring teams have not detected any radiation levels off-site in excess of normal background). The initial press release should include all or part of the above information since time is of the essence. However, at the very least, it should contain items a-e above.

2.0 In addition to the above, the following guidance should be used in issuing press releases:

- Speculation, dose projections and Protective Action Recommendations should not be included in press releases.

EXHIBIT 9
(continued)

PRESS RELEASE APPROVAL GUIDANCE

- Press releases may have operational and radiological review but shall have concurrence by the ED. Original initialed copies are to be retained for records. Exceptions to this are limited to press releases with boiler plate information only (e.g., Pre-approved boiler plate news releases are contained in Procedure 1820-IMP-1720.01, Attachment 1) which may be issued without prior review and approval. Once the Governor has declared a "State of Emergency", all OCNGS press releases shall be provided to the State Police representative in the Media Center for review prior to final issuance. Changes made as a result of this review should be communicated to the ESD (ED if ESD is not activated).

NOTE
For security related events, press releases containing potential safeguards information are to be reviewed by the Security Coordinator.

- Press releases will be reviewed expeditiously in order to support timely issuance.

- Press releases should avoid technical terms (e.g., plant names) and jargon (e.g., trip) and should be written as simple as possible. For example, ISO Condenser could be referred to as a heat removal process from the reactor.

EXHIBIT 10

PLAN FOR STORAGE AND TRANSFER OF CONTAMINATED WATER

Prior to implementing a recovery program for handling large volumes of contaminated water, the conditions unique to the accident should be known and evaluated. Methods for dealing with large amounts of contaminated water and dependent on its volume, activity, and location, and require that technical evaluations be performed and special procedures be developed prior to implementation. Unless required by Emergency Operating Procedures or directed by the ED, it is OCNGS policy not to transfer radioactive material out of primary or secondary containment to any other storage location. For any such transfers (except as permitted by EOP's), a detailed safety evaluation must be performed and approved by the Emergency Director. This report, therefore, provides only general guidelines for the post accident handling of large volumes of contaminated water released as a result of pipe breaks that occur either in or out of primary containment.

I. PIPE BREAK IN PRIMARY CONTAINMENT

A pipe break in primary containment will cause contaminated liquid to be discharged initially to the Drywell basement floor. Depending upon the severity of the break, and if the 1-8 sump capacity is exceeded, contaminated water could eventually flood the basement and spill into the Torus. The Torus can accommodate an additional 126,000 ft^3 of liquid before reaching its flooded volume capacity of 213,000 $ft._3$.

A. Drains and Sump Operation in Primary Containment

The Drywell Floor Drain Sump 1-8 is part of the Equipment and Floor Drainage System and normally collects water from spills received through the Drywell floor drains. The sump is located in the Drywell at elevation 6'0" and has an available capacity of 81.6 gallons. The sump discharge is isolated (full valve closure of containment isolation valves V-22-28, 28) on high Drywell pressure or low, low reactor water level. These valves can also be manually controlled from panel 11F in Control Room by making necessary electrical changes per OCNGS Procedure 312.1, "Drywell Isolation Signal Bypass" (Emergencies). The sump pumps are interlocked to shutdown on closure of the discharge isolation valves. This allows for the isolation of contaminated liquid within primary containment. In addition, the sump can be manually isolated by closing sump pump discharge valves V-22-184, 186.

To discharge the contents of the sump for processing, pumps 1-8A and 1-8B can be manually operated intermittently using their respective power supplies 1A21 and 1B21. This operation assumes that the containment isolation valves have reopened or are in the open position. Also, the sump isolation valves V-22-184, 186 should be considered for manually controlling the sump discharge flow.

EXHIBIT 10
(continued)

PLAN FOR STORAGE AND TRANSFER OF CONTAMINATED WATER

II. PIPE BREAK OUTSIDE PRIMARY CONTAINMENT

The most likely areas for contaminated water to collect following a pipe break in the Reactor Building or Turbine Building basement are Reactor Building sump 1-6 and 1-7 and Turbine Building sump 1-3. The amount of contaminated water expected to be released during a break outside primary containment will be relieved through the floor drain system located in each building to the respective sump.

A. Drains and Sump Operation Outside Primary Containment

Reactor Building

Contaminated water relieved through the floor drains in the Reactor Building will collect in sumps 1-6 and 1-7 (SE Corner). The sumps are located at Elevation -19'6" and have a combined capacity of approximately 1,500 gallons. The sumps are interconnected and provided with sump inlet isolation valves (V-24-35, 36, 37, 38) which automatically close on high, high sump level. Sump 1-7 discharge lines are equipped with isolation valves (V-22-167, 169) that are manually (local) controlled to allow for sump isolation, and can be used to control sump outlet flow for intermittent liquid processing. In addition to valve manipulations, the sump pumps can be tripped off manually from the 480 switchgear room (supplies 1A21, 1B21) to allow for local sump flooding and contaminated liquid isolation.

Turbine Building

The Condenser Bay Area of the Turbine Building basement is most likely to accumulate contaminated water resulting from a pipe break in the basement and steam tunnel. In the extreme case, a pipe line break (LOCA) in the Main Steam System outside primary containment would cause high pressure steam to be discharged from both sides of the break. However, the flow limiters in the main steam line would control the blowdown to 200% of rated flow. The line break would be sensed by either increased pressure drop across venturis due to high steam flow rate, or increased temperature in pipe tunnel, and main steam isolation valve closure would be activated within 0.5 seconds after break and full valve closure at 10.5 seconds. The limited amount of contaminated water deposited as the steam condense would be drained through the Equipment Floor Drain System. The basement floor is equipped with a segregated floor drain system for controlled drainage to the Turbine Building sumps. Sump 1-3 collects the contaminated water generated in a Condenser Bay Area and would collect the water generated from a major pipe break. The sump is located at Turbine Building (NW corner of Condensate Pump Pit) at elevation 0'0" and has a capacity of 1,500 gallons.

EXHIBIT 10
(continued)

PLAN FOR STORAGE AND TRANSFER OF CONTAMINATED WATER

The sump pump discharge valves (V-22-172, 174) are manually (local) isolated from the Turbine Building and the sump pump power supplies (1A12, 1B12) secured from Turbine Building Mezzanine North Control location. Manual isolation of sump 1-3, which is similar to the manual isolation of Reactor Building sump 1-7, will allow local flooding to occur. Intermittent pump operation or valve throttling will allow for controlled liquid processing at a desired capacity.

III. SAMPLING CONTAMINATED WATER

Samples of the contaminated water should be obtained to determine the liquid's radioisotopic content and conductivity. The sampling results will influence the subsequent processing path chosen.

Possible sample points that should be investigated for use are:

TO SAMPLE	USE	LOCATION
Torus	V-21-57	"C" Containment Spray Pump - Reactor Building
Drywell Sump (1-8)	Drywell Sample Valve	Reactor Building 23' Elev.
Reactor Building Sump (1-7)	DS HV-133	ORW Pipe Tunnel
Turbine Building Sump (1-6)	DS HV-134	ORW Pipe Tunnel

Since operation of the respective sump pumps will be required for sampling, pump run time should be minimized to limit the amount of contaminated water transported to Chem. Waste/Floor Drain System. An attempt should be made, therefore, to sample the contaminated water at a point nearest to the break location using a Geyser Pump and ALARA practices when transporting the liquid.

IV. PROCESSING SCHEMES

Prior to transferring highly contaminated water from its spill area, several issues need to be addressed in a technical evaluation. These include:

1. Does the flooded area need to be recovered radiologically to allow workers entry?

2. Does retaining the water pose a greater radiological concern than transferring to Radwaste?

3. Does Radwaste have available capacity?

4. Are there processing options such as a temporary demineralizer?

EXHIBIT 10
(continued)

PLAN FOR STORAGE AND TRANSFER OF CONTAMINATED WATER

These types of concerns should be addressed on an individual basis prior to implementing a processing plan.

A. NORMAL

Contaminated water generated within the plant during normal operation which collects in the Drywell, Turbine Building, or Reactor Building sumps is transferred to the Chem. Waste/Floor Drain System for processing. This system, in addition to the High Purity Liquid Waste System, comprises the new Radwaste Liquid Radwaste System. The Chem. Waste/Floor Drain System receives the sump water in a series of collector tanks; WC-T-1A, 1B, 1C. The total combined capacity of these tanks is 42,000 gallons. In the event that this primary collector capacity is unavailable for use, 10,000 gallons of secondary collector capacity is available by diverting flow to the ORW Floor Drain Collector Tank NV-49. Flow from the Turbine Building sumps to NV-49 can be accomplished by manually opening DS-HV-111 and closing DS-HV-106 from their location in the ORW pipe tunnel. Flow from Reactor Building Sump 1-7 to NV-49 can be accomplished by closing DS-HV-109 and opening DS-HV-114. Additional tanks available for receiving water are:

Waste Neutralizer Tanks NV-05A/B - 10,000 gallons each.
High Purity Waste Collector Tank HP-T-1B - 30,000 gallons.

Water can be transferred from NV-49 to the Waste Neutralizer Tank using Section 11 of OCNGS Station Procedure 313.2.
The Chem. Waste/Floor Drain System is capable of processing water at 60 GPM with both process trains in use.

B. According to Sample Results
Water with Excessively High Radioisotopic Activity

Contaminated water of excessively high radioisotopic activity which precludes safe handling and disposition will be retained at its location and processed in small enough portions such that exposures to operating personnel are not significantly impacted. The method for handling this water will depend on its location and rad levels. If necessary, steps should be taken to dilute the Contaminated water with low activity water to reduce the concentrations. Subsequent to authorization allowing the processing to occur, contaminated water located in the sumps can be directed to the Chem. Waste/Floor Drain

System tanks and diluted as required. Water located in the Torus can be drained through the Containment Spray Pumps 1-3 and 1-4 manual drain valves V-21-57, 58. Manual drainage in this manner will allow water to subsequently be processed in either the High Purity System or Chem. Waste/Floor Drain System depending on water quality. (Water sent to High Purity System should have conductivity less than 50 UMHOs/CM - refer to SP-1302-28-001 Water Quality, OCNGS or the permission of the Manager of Chemistry).

EXHIBIT 10
(continued)

PLAN FOR STORAGE AND TRANSFER OF CONTAMINATED WATER

Outdoor Storage Limit Not Exceeded

If the radioisotopic concentration of the contaminated water in the Torus is such that the outdoor storage Technical Specification (3.6.C) of 10 curies (see note below) would be exceeded, and processing cannot be initiated, outdoor storage options should be investigated. The following tanks can be used to store water:

Condensate Storage Tank - 535,000 gallons

Torus Water Storage Tank - 763,000 gallons

A temporary connection from the blind 14" flange off the common discharge header of containment Spray Pumps 1-3 and 1-4 will allow water to be transferred from the Torus to the above tanks.

NOTE: The new Radiological Effluents Technical Specifications Spec. 3.6.C allows storage of up to 10.0 Ci in the Condensate storage Tank. OCNGS would have to apply to the NRC for authorization to include Torus Water Storage Tank in the outdoor storage plan.

C. Radiation Levels not a Limiting Constraint
Processing through High Purity Waste System

Contaminated water of low mineral content is normally processed through the High Purity System. Torus water can be routed through Containment Spray Pumps 1-3, 1-4 drain valves V-21-57, 58 and allowed to collect in the R.B.E.D.T. The contents of the tank can then be pumped directly to the High Purity Waste Collector Tanks using existing connections. Contaminated sump water can be processed through the Chem. Waste/Floor Drain System bypassing the evaporators. Processing without the evaporators will allow rates approaching 60 GPM per train.

Processing through Chem. Waste/Floor Drain System

Contaminated water of high mineral content is normally processed through the Chem. Waste/Floor Drain System. Since sump water is normally processed through this system, temporary connections are not required. Contaminated Torus water can be processed through this system if the Reactor Building Equipment Drain Tank (R.B.E.D.T.) is allowed to overflow into Reactor Building sump 1-7(B). This can be accomplished by directing Torus water through Containment Spray Pumps 1-3, 4 drain valves (V-21-57, 58), so that drainage to the R.B.E.D.T. through the floor drain system will occur (see Appendix 1). The normal effluent path of R.B.E.D.T. can be manually isolated to allow for overflow by controlling pump isolation valves V-22-150, 152 from the Reactor Building or by manually controlling pump power (local controls - supply MCC 1B21).

EXHIBIT 10
(continued)

PLAN FOR STORAGE AND TRANSFER OF CONTAMINATED WATER

V. STORAGE OF PROCESSED WATER

The Chem. Waste/Floor Drain System has the capability of providing 20,000 gallons of primary storage space. Two Chem. Waste Distillate Storage Tanks (WC-T-3A, 3B) normally provide space for water processed through the Chem. Waste System during normal operation. Two storage tanks, HP-T-2A, 2B, provide 60,000 gallons of High Purity Storage for water processed through the High Purity System. In addition, water processed in these two systems may be discharged to the condensate system directly if they are of condensate quality.

Secondary Storage Capacity is provided through use of the following vessels:

Condensate Storage Tank	- 535,000 gallons
Hotwells	- 84,550 gallons
Torus Water Storage Tank	- 763,600 gallons

The secondary storage capacity will find use if the Torus contents have been processed and additional storage capacity is required.

EXHIBIT 11

Relocation of the TSC

1.0 This Exhibit provides guidance for establishing TSC functions in alternate locations when directed by the ED.

2.0 TSC functions should be divided between the ECC and OSC as follows (ED may direct other arrangements as needed):

2.1 The following should relocate to the ECC, take direction from the ED, and follow EPIP-26 or EPIP-35 as appropriate.

NOTE

The ECC has limited space and facilities so the number relocated here should be minimized.

2.1.1 ED

- ED briefings should be made on the Plant Page System or by telephone

2.1.2 ED Assistant

2.1.3 RAC/RASE

2.1.4 Core Engineer (if required in ECC)

2.1.5 Communications duties should be handled by the existing ECC communicators and the EOF for off site notifications once activated.

2.2 The following should relocate to the Drywell Command Center (Conference Room) of the OSC and take direction from the TSC Coordinator:

NOTE

The OSC has computer terminals and a set of plant procedures and drawings.

EXHIBIT 11
(continued)

Relocation of the TSC

2.2.1 TSC Coordinator

- Continue to take direction from the ED while coordinating with the OSC Coordinator to minimize interference.

2.2.2 TSC Engineers

2.2.3 TSC Communications Coordinator

2.2.4 TSC Communicators

2.2.5 TSC Tech Assistant

2.2.6 Core Engineer (if not required in the ECC)

NOTE

The OSC has limited space and may be controlling several Damage Control Teams. To minimize interference only the TSC Coordinator should interface with the OSC Coordinator initially.

2.3 The following guidance is provided for integrating the TSC engineering function into the OSC.

2.3.1 TSC Engineer should establish a work space in the Drywell Command Center and survey the available procedures and drawings. If additional references are needed, they may be obtained from the Maintenance building.

NOTE

Anyone leaving the OSC building must be tracked as a team.

2.3.2 The Plant Computer System terminal is located in the OSC in a very busy area. If it is needed, coordinate with OSC staff to minimize interference.

EXHIBIT 11
(continued)

Relocation of the TSC

2.3.3 TSC Communicators may not be needed by the OSC. However, at least one should be used to support ED/TSC Coordinator Communications. This may be via a normal telephone to ECC. This should be coordinated with the ECC Communications Coordinator.

Communicators who are not required for OSC operations may be useful at the EOF, especially if NRC is sending a response team. This should be coordinated with the EOF Communications Coordinator.

2.3.4 The Tech Assistant may be useful to assist the OSC with operational related teams. He may replace or supplement the GOS assigned to the OSC.

2.3.5 Personnel who are not required may be sent to the Emergency Assembly Area or Remote Assembly Area as appropriate. If neither Assembly Areas are activated, they may be sent home with reporting instructions for the next day (e.g.; report to site, EOF, OSC, etc.).

EXHIBIT 12

ALTERNATE EMERGENCY RESPONSE FACILITIES

This exhibit provides a description of evacuation preplanning for Alternate Emergency Response Facilities as follows:

1. Control Room/ECC - Evacuation of Control Room - the Operators control the plant from remote shutdown panels and the GSS directs plant operations from the TSC. All other ECC IREO members are integrated into the TSC organization. (Refer to 2000-ABN-3200.30 for specific direction).
2. OSC - Evacuation of OSC - all OSC personnel are evacuated to the SOSC which is located in the rear of the TSC. (Refer to EPIP-OC-27 for specific direction.)
3. TSC - Evacuation of TSC - the ED support staff which includes the ED, ED Assistant, RAC, and RASE evacuate to the Control Room (ECC). The Tech Support staff which includes the TSC Coordinator, TSC Engineers, Communication Coordinator, Communicators and the Tech Assistant evacuate to the OSC. The Core Engineer would initially report to the Control Room, but if his services are not needed, he will be sent to the OSC.
4. Remote Assembly Area - Evacuation of RAA's - if the Forked River Bldg. 14 RAA is not available then relocate to the Berkeley Customer Operations Center and vise versa.
5. Emergency Assembly Area - The EAA may be redirected to the Forked River Assembly Area or to the Remote Assembly Area at Berkeley Line as directed by management. In this case Site Accountability is conducted as personnel exit the site.
6. EOF - There are no backup facilities for the EOF because it is remote from the site and it is unlikely that a nuclear related incident would affect both the plant and this center.

EXHIBIT 13

EMERGENCY DIRECTOR AUTHORIZATION FORM FOR DEVIATIONS FROM REQUIREMENTS

TYPE OF DEVIATION

[ ] I. Deviations authorized under the Emergency Plan.
Deviations from operating procedures, emergency procedures, emergency plan implementing procedures, or normal equipment operating limits that do not result in a deviation from Technical Specifications, Operating License, License Conditions or other NRC Rules, Regulations, or Orders.

[ ] II. Deviations authorized by 10 CFR 50.54 (x) and (y) for the protection of public health and safety.

[ ] A. Departure from a Technical Specification requirement.

[ ] B. Departure from the Operating License.

[ ] C. Departure from a License Condition.
(Refer to page E6-3 & 4 for assistance in defining "License Conditions")

[ ] D. Departure from NRC Rules, Regulations, or Orders.

Deviations are only permissible if all of the following are met:

1. An Emergency condition exists which can impact the public health and Safety.
2. The deviation is allowed if there are no actions which are inconsistent with license conditions or technical specifications.
3. The action must be taken immediately in order to be effective in protecting the public health and safety.

Deviation Justification:_____

_____

_____

_____

_____

_____

Alternatives Considered: _____

_____

_____

SRO Concurrence_____

TSC Eng. Concurrence_____

ED Approval_____Date_____Time_____

NRC Notification_____Date_____Time_____

NRC Person Notified_____

EXHIBIT 13 (continued)
EMERGENCY DIRECTOR AUTHORIZATION FORM FOR DEVIATIONS FROM REQUIREMENTS

LICENSED CONDITIONS

REGULATION	REQUIREMENT	DESCRIPTION	DEVIATION
10 CFR 50.54(A) 10 CFR 50 APP. B	OQA Plan	Plan to insure quality in all phases of Nuclear Plant operation and to enhance Safety	A 50.54(x) deviation consists of not implementing the OQA Plan of a section of the Plan to protect public safety and health. See NOTE 1 below.
10 CFR 50.54(p) 10 CFR 73.55	Safeguards and Security Plan	Requirement for Physical Security and control of information pertaining to the method employed.	A 50.54(x) deviation is not implementing a major portion of the Security Plan to protect public health and safety. See Note 2 below.
10 CFR 50.54(q) 10 CFR 50.47(b) 10 CFR 50 APP. E	Emergency Plan	Plan to insure the appropriate facilities, personnel, procedures and equipment are available to adequately respond to emergencies. The sub-parts of this item are: * Standard Classification System * Notification of Local, State and Federal Organizations * Methods, Systems & Equipment for assessing & monitoring actual or potential radiological consequences * Use of Protective Action Recommendations * Controlling radiological exposure * Activation/use of Emergency Response Facilities * Use of ERDS (Emergency Response Data System)	All of these sub-parts of the Emergency Plan are implemented via implementing procedures. Examples of 50.54(x) DEVIATIONS, while protecting public health and safety follow: Deciding intentionally to NOT- * Control exposures of all workers per EPA-400 limits * Activate the Emergency Response organization * Use/Activate Emergency Facilities The other items of this part do not meet the criteria for a 50.54(x) DEVIATION that would still protect the public health and safety. Any instance of not complying with these parts is a violation, but not a valid DEVIATION.
10 CFR 50.54(z)	NRC Operations Center	Requires notify and maintain communications with the NRC Operations Center of events specified in 10 CFR 50.72	A 50.54(x) deviation is when the NRC is Intentionally Not notified or when communications with NRC is being suspended without NRC concurrence to protect public health and safety.

EXHIBIT 13 (continued)

EMERGENCY DIRECTOR AUTHORIZATION FORM FOR DEVIATIONS FROM REQUIREMENTS
LICENSED CONDITIONS (CONTINUED)

NOTE 1 - The OQA Plan describes the formal plan to implement the requirements of 10 CFR 50 Appendix B. The Plan contains the controls and bases for procedures that implement the Plan. If an entire process described in the Plan is not followed, this must be considered under 10 CFR 50.54(x). It is unlikely that such a deviation could be considered to protect the health and safety of the public thus could not be authorized under 10 CFR 50.54(x).
Specific and individual deviations from the plan's implementing procedures are not considered a deviation form the Plan, and as such would still require the approval of the Emergency Director and documentation on Exhibit 6 but would not require notification of the NRC per 10 CFR 50.72(a) (2) (i) (C).

NOTE 2 - The Security Plan implements the requirements of 10 CFR 73.55. In essence, deviations from the Security Plan are deviations from 10 CFR 73.55 and in accordance with 10 CFR 73.55(a) are reported in accordance with 10 CFR 50.54(x). In addition to the Security Plan, 10 CFR 73.55 required a Safeguards Contingency Plan which gives guidance to accomplish specific defined objectives for different events. The Safeguards Contingency Plan is considered similar to an implementing document and therefore specific deviations from it are not 10 CFR 50.54(x) deviations. However, if whole parts of the Safeguards Contingency Plan are not followed, these should be considered under 10 CFR 50.54(x).

Example: The Security Plan, as required by 10 CFR 73.55, contains requirements on access controls. If access controls are suspended this should be considered a deviation of the Security Plan and be reported in accordance with 10 CFR 50.54(x). However, if access controls will be maintained but differently than described in the procedures, this is not a 10 CFR 50.54(x) deviation but would still require the appropriate approval and documentation using this exhibit page E13-1 and E13-2.

EXHIBIT 13 (continued)

EMERGENCY DIRECTOR AUTHORIZATION FORM FOR DEVIATIONS FROM REQUIREMENTS

ADDITIONAL INFORMATION AND REGULATORY EXCERPTS

50.54(x) - A licensee may take reasonable action that departs from a license condition or technical specification (contained in a license issued under this part) in an emergency when this action is immediately needed to protect the public health and safety and no action consistent with license conditions and technical specifications that can provide adequate or equivalent protection is immediately apparent.

NOTE

The NRC has interpreted 50.54(x) to apply to NRC rules, regulations and orders in addition to Technical Specifications, Licenses, and License Conditions.

50.54(y) Licensee action permitted by paragraph (x) of this section shall be approved, as a minimum, by a licensed senior operator prior to taking the action.

73.55(a) In accordance with section 50.54(x) and (y) of Part 50, the licensee may suspend any safeguards measure pursuant to Section 73.55 in an emergency when this action is immediately needed to protect the public health and safety and no action consistent with the license conditions and technical specifications that can be provide adequate or equivalent protection is immediately apparent. This suspension of safeguards measures must be reported in accordance with the provisions of 73.71. Reports made under Section 50.72 need not be duplicated under 73.71.

NOTE

In essence, no one below a licensed SRO individual can make the decision to depart from the License. However, if a more senior manager is present (i.e., Emergency Director) even though he does not possess an SRO license, the decision authority would be passed to him as a higher authority in the chain of command. The licensed SRO shall provide his best judgment to the ED for his consideration. Beyond that the SRO shall follow the orders of his supervisor.

It is suggested that the Emergency Director consult to the extend practicable with the Technical experts at the TSC in arriving at a decision to deviate from prescribed procedures. However, Emergency Operating Procedures should not be deviated from.

50.72(b) Any deviation from the plant's technical specifications authorized pursuant 50.54(x) of this part.

NOTE

Notify the NRC before taking action if time permits, but at least within 1 hour of the deviation.

The NRC interprets the reporting requirement to cover any departure under 50.54(x) and (y), and is not limited to Technical Specification deviations.

EXHIBIT 14

CORE ENGINEERS RESPONSIBILITIES

1.0 Report to the TSC Coordinator, unless needed in the ECC. If Core Engineer reports to ECC first, then the TSC coordinator should be informed.

2.0 As requested assist the TSC Coordinator in activation operation, and recovery of the TSC as applicable. Refer to Coordinators Checklist (Exhibit 3) for guidance.

3.0 Perform and document Core Damage Estimation Reports in accordance with EPIP-OC.33 and other engineering tasks as directed by the TSC Coordinator.

4.0 Assist with the PCS and SPDS Programs as requested.

5.0 Present all documentation generated during the performance of their duties to the TSC Coordinator.

6.0 As directed, assist TSC Coordinator in deactivation of TSC.

7.0 Should the TSC be or become unavailable (e.g., due to fire, security event, etc.) refer to EXHIBIT 11 which provides guidance for the establishment of the TSC functions in alternate locations.

EXHIBIT 15

SITE ACCESS POLICY FOR MEDIA DURING EMERGENCIES

Providing reasonable site access to the media during a plant emergency is in the best interest of OCNGS and the public.

Responsibility for approving site access rests with the Emergency Support Director, or, if the EOF is not activated, with the Emergency Director.

For purposes of media access to the site during an emergency, the same industrial safety and security standards and requirements that apply to non-essential employees will be applied to the media.

Communication Dept. Responsibilities

Request for media access will be made to the ESD or ED by the Public Information Duty Representative or the Media Center Lead.

Communications will provide the ED/ESD with the number of media to gain site access, areas to be accessed and length of time the media will be there. (Communications will decide the number of media gaining access based on conditions at the time of the emergency. An attempt will be made to gain access for, at a minimum, one representative each from radio, television and print media.)

Communications will provide media transportation on and off site.

Communications will have each member of the media sign a Media Access Briefing Form, Exhibit 20, indicating they were briefed about the risks as they were known at the time by the corporation.

1. If media access does not involve entry into a posted radiologically controlled area:

   a. At Oyster Creek, Security will retain responsibility for sign in and badging.

   b. Communications will supervise and escort the media while on site.

   c. Communications will conduct a briefing explaining the radiological and industrial conditions and risks on site.

2. If media access involves entry into a posted radiologically controlled area:

   a. Media will be processed as appropriate, receiving dosimetry, training, bioassay, waivers and briefings based on established procedural requirements.

   b. Communications will notify the Security Coordinator prior to site access.

EXHIBIT 15

SITE ACCESS POLICY FOR MEDIA DURING EMERGENCIES
(continued)

c. Communications in conjunction with Radiological Controls will supervise and escort the media while in posted radiologically controlled areas.

ED/ESD Responsibilities

1. The ED/ESD will consult with the RAC/Group Leader R&EC, and media may be granted access if the projected dose will not exceed the 500 millirem annual limit including external and internal exposure.

NOTE
For security driven events, Media access to the site must also be approved by the local Law Enforcement Agency and Security.

2. Approve media access to the site if requirements are met.

EXHIBIT 16

EMERGENCY SHIFT SCHEDULE
EXAMPLE

DATE:

GROUP (eg. Admin.):

TIME:	SHIFT 1	SHIFT 2	SHIFT 3
BEGIN			
END			

		NAME	NAME	NAME
	POSITION #			
PHONE	HOME #			
	WORK #			
	BEEPER #			
	POSITION #			
PHONE	HOME #			
	WORK #			
	BEEPER #			
	POSITION #			
PHONE	HOME #			
	WORK #			
	BEEPER #			
	POSITION #			
PHONE	HOME #			
	WORK #			
	BEEPER #			

EXHIBIT 17
HIFAX LOG
EXAMPLE

MESSAGE	TIME	SEND INITIAL	TSC	OSC	EOF	ECC	COMMENTS
			TSC	OSC	EOF	ECC	COMMENTS

EXHIBIT 18
EXAMPLE

OYSTER CREEK NUCLEAR GENERATING STATION
EMERGENCY COMMUNICATIONS

Communicator Log

Location: _____ **Date:** _____
ERF
Circuit: _____
Name: _____

Time:	**Remarks:**

EXHIBIT 19
EXAMPLE

Number _____

OCNGS Emergency Message

To: OSC TSC EACC _____
ECC EOF Staff Position Other

Message:

Originator: _____ _____ _____ _____
Staff Position Initials Time Date

Location: **ECC** **TSC** **OSC** **EACC** **EOF**

Reply:

Reply Completed by: _____ _____ _____ _____
Staff Position/Other Initials Time Date

A0001731 10-84

EXHIBIT 20

MEDIA ACCESS BRIEFING FORM

I have been briefed about the risks, both industrial and radiological, to which I may be exposed while at this nuclear facility. I understand there may be some risk and willingly accept it for the purpose of visiting the plant site.

Signature_____

Date_____

News Organization_____

Communications Rep._____

EXHIBIT 21

PAR NOTIFICATION FORM

NOTE

Personally provide the PAR to the Senior State Official at the State EOC, within 15 minutes of a General Emergency. Verify that you are speaking to the Senior Official at the State EOC when providing the PAR. If the PAR is provided prior to State EOC activation, the State has agreed that the State Dispatcher will be considered the "Senior State Official".

INITIAL PAR

☐ We recommend evacuation for the general population within 2 miles of the plant and Compass Sectors _____, _____ and _____ out to a distance of _____ miles. We also recommend Sheltering, for the general population within all other areas of the EPZ.

☐ We recommend Sheltering for the general population within the 10 mile EPZ.

EXPANSION OF PAR

☐ We recommend evacuation for the general population within _____ miles of the plant and Compass Sectors _____, _____ and _____ out to a distance of _____ miles. We also recommend sheltering for the general population within all other areas of the EPZ.

☐ We recommend evacuation for the general population within _____ miles of the plant.

Signature_____ Time_____ Date_____

Senior State Official Notified_____ Time_____ Date_____