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AmerGen SM
An Exelon/British Energy Company

November 12, 2001
2130-01-20235

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Dear Sir:

Subject: Oyster Creek Nuclear Generating Station
Docket No. 50-219
Emergency Plan Implementing Procedure Revisions

In accordance with 10 CFR 50, Appendix E, Section V, enclosed is the newly revised Index for the Oyster Creek Emergency Plan Implementing Procedures and the below listed procedures.

Procedure Number	Title	Revision
EPIP-OC-.02	Direction of Emergency Response/Emergency Control Center	29
EPIP-OC-.03	Emergency Notification	29
EPIP-OC-.11	Emergency Radiological Surveys Offsite	17

If further information is required, please contact Mr. David G. Slear, Manager, Regulatory Assurance at 609-971-4112.

Very truly yours,

Ron J. DeGregorio
Vice President
Oyster Creek

RJD/JJR:ew

Enclosures
cc: Administrator, Region I
NRC Sr. Project Manager
NRC Resident Inspector

A045

EPIP SERIES - EMERGENCY PLAN IMPLEMENTING PROCEDURES

PROCEDURE NO.	TITLE	REV. NO.	DATE
6630-ADM-4010.03	Emergency Dose Calculation Manual (EDCM)	11	07/23/00
EPIP-OC-.01	Classification of Emergency Conditions	10	06/17/01
EPIP-OC-.02	Direction of Emergency Response/Emergency Control Center	29	11/07/01
EPIP-OC-.03	Emergency Notification	29	11/07/01
EPIP-OC-.06	Additional Assistance and Notification	25	10//05/01
EPIP-OC-.10	Emergency Radiological Surveys Onsite	11	08/08/00
EPIP-OC-.11	Emergency Radiological Surveys Offsite	17	11/07/01
EPIP-OC-.12	Personnel Accountability	9	07/07/01
EPIP-OC-.13	Site Evacuation and Personnel Mustering at Remote Assembly Areas	8	11/09/00
EPIP-OC-.25	Emergency Operations Facility (EOF)	25	10/01/01
EPIP-OC-.26	The Technical Support Center	23	07/05/01
EPIP-OC-.27	The Operations Support Center	11	11/09/00
EPIP-OC-.31	Environmental Assessment Command Center	11	08/08/00
EPIP-OC-.33	Core Damage Estimation	5	08/08/00
EPIP-OC-.35	Radiological Controls Emergency Actions	14	08/08/00
EPIP-OC-.40	Site Security Emergency Actions	11	11/30/00
EPIP-OC-.41	Emergency Duty Roster Activation	5	08/08/00
EPIP-OC-.44	Thyroid Blocking	2	07/21/01
EPIP-OC-.45	Classified Emergency Termination/Recovery	2	10/05/01
OEP-ADM-1311.03	Emergency Preparedness Section Administration	4	08/08/01
OEP-ADM-1319.01	Oyster Creek Emergency Preparedness Program	9	07/02/01
OEP-ADM-1319.02	Emergency Response Facilities & Equipment Maintenance	9	07/05/01
OEP-ADM-1319.04	Prompt Notification System	3	12/08/00
OEP-ADM-1319.05	Emergency Preparedness Event Reports	2	07/02/01

AmerGen An Exelon/British Energy Company	OYSTER CREEK EMERGENCY PREPAREDNESS IMPLEMENTING PROCEDURE	Number EPIP-OC-.02

Title		Revision No.
DIRECTION OF EMERGENCY RESPONSE/ EMERGENCY CONTROL CENTER (ECC)		**29**
Applicability/Scope: Applies to work at Oyster Creek Division & Support Divisions	Usage Level: **1**	Responsible Department: Emergency Prep
This document is within QA plan scope: X Yes ___ No 50.59 Applicable: ___ Yes X No		Effective Date: 11/7/01

Prior Revision 28 incorporated the following Temporary Changes:

N/A

This Revision 29 incorporates the following Temporary Changes:

N/A

List of Pages (All pages rev'd to Rev. 29)

1.0 to 7.0
E1-1 to E1-17
E2-1 to E2-3
E3-1
E4-1 to E4-3
E5-1
E6-1 to E6-3
E7-1 to E7-2
E8-1 to E8-3
E9-1 to E9-2
E10-1
E11-1
E12-1
E13-1
E14-1
E15-1
E16-1

	Signature	Concurring Organization Element	Date
Originator		Emergency Planner	10/29/01
Concurred By		Plant Manager	10/30/01
Approved By	for D. TALLERAY	Emergency Preparedness Mgr, O.C.	11/5/01

DOCUMENT HISTORY

REV.	DATE	ORIGINATOR	SUMMARY OF CHANGE
14	12/94	R. Finicle	Add guidance on media access to the site during declared emergencies.
15	02/95	A. Smith	Add Security Events to media access to get approval from local Law Enforcement and Security. EPIP-COM-45 to EPIP-OC-.29
16	06/95	A. Smith	Note for North Gate Applicability, Title changes of Buildings and General Typo's.
17	12/95	T. Blount	Correct typo's. Also modify Deviation documentation.
18	05/96	Bontempo	Revise Par Logic Diagram to address March 15, 1996 NRC/GPUN meeting. Delete Exhibit 1b pg. E1-16 through E1-19. Add Steps 2.1.1 through 2.1.3 of Exh. 1b Par Guide.
19	05/97	T. Blount	AEOF Removed from E-Plan 1000-PLN-1300.01 in Rev. 11. On-shift Team dispatch and mustering activity described.
20	10/97	A. Smith	Clarify nomenclature for fax machine in control room.
21	05/98	P. Hays	Change terminology from "Tech. Functions" to "Engineering", reflects elimination of Radwaste Supervisor, adds OCAB into considerations of on-site protective actions and clarifies transfer of authority for off-site notifications.
22	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)
23	05/99	A. Smith	Clarify off-site notification transfer between ECC & EOF. Incorporate new public information process.
24	10/99	A. Smith	Clarify computer for ESDS usage.
25	DOS	A. Smith	Change references from GPU or GPUN or OCNGS.
26	09/00	G. Busch	Remove shift ORC Coordinator and clarify Communication Coordinator not necessarily a CRO.
27	10/00	A. Smith	Clarify transfer of Off Site Notification from ECC to EOF. Provide clarification for team tracking from the ECC. Improve 50.54X format.
28	06/01	R. Finicle	Revised step 3.1 of Exhibit 1 regarding personally providing the PAR to the Senior State Official at the State EOC. Added new Exhibit 16 PAR Notification Form. Change Ref. use from 1702.
29	10/01	A. Smith	Move Step 7.0 over on Exhibit 8 and add sign off line. Add sample and "This is a drill", "This is not a drill" to Exhibit 16. 50.59 Review applicability to "NO".

1.0 PURPOSE

This procedure describes the actions to be taken by the Onshift Emergency Director (ED)/Site Shift Manager after an emergency is declared.

This procedure also describes the staffing, activation and operation of the Emergency Control Center (ECC).

2.0 APPLICABILITY/SCOPE

2.1 This procedure applies to the ED/GSS(SSM) and describes actions that must be taken by the ED/GSS(SSM) or his staff to implement the OCNGS Emergency Plan.

2.2 This procedure shall apply to all personnel assigned to the ECC during all levels of emergency classifications.

3.0 DEFINITIONS

3.1 Site Shift Manager - Is the Group Shift Supervisor on shift, responsible for the overall site operation as it pertains to the operation of the plant.

4.0 RESPONSIBILITIES

4.1 The ED/GSS(SSM) will perform or delegate the completion of the ED/GSS(SSM) checklist (Exhibit 1).

4.2 The Operation Coordinator/GOS will assume responsibilities outlined in Exhibit 3 (Operations Coordinator Responsibilities).

4.3 The Shift Technical Advisor will advise the ED/GSS(SSM) on activities that impact the safe operation of the plant.

4.4 A qualified person assigned as the on shift communicator will perform duties as specified in "Emergency Notification" Procedure EPIP-0C-.03.

4.5 The Initial Response Organization ECC communications coordinator and ECC communicators will perform duties as specified in accordance with this procedure.

4.6 A CRO or qualified person assigned as the initial OSC Coordinator will take direction from the SSM or GOS for coordination of initial emergency activities.

5.0 PROCEDURE

5.1 The following actions shall be performed by the on shift crew upon recognition of in plant or site conditions that have exceeded Emergency Action Levels (EALs) specified in EPIP-OC-.01.

5.1.1 GSS(SSM) will assume ED responsibilities (Exhibit 2) and complete actions listed on the ED/GSS(SSM) checklist (Exhibit 1).

5.1.2 GOS will assume Operations Coordinator responsibilities (Exhibit 3).

5.1.3 The person assigned by the GSS(SSM) will perform actions of "Communications Coordinator" as specified in EPIP-OC-.03.

5.1.4 Emergency responders on shift shall be directed to respond to events by the ED(SSM) or Ops Coordinator (GOS) from the ECC. If the conditions of the event indicate shift personnel should muster at a designated location, (to protect personnel) the ED shall direct them to an appropriate area. This area/location may be:

1) The EO room next the Control Room
2) The OSC
3) A suitable location selected by the GSS/ED.

When the OSC is Staffed by the IREO (typically 1 Hr from the Alert), the on-shift responders should be directed to report to that location.

5.1.5 Team(s) dispatched prior to Activation of the OSC by the IREO should be "tracked" using the information similar to Exhibit 1C, Checklist. The Operations or OSC Coordinator on-shift will perform the briefing/tracking of teams. If this individual is unable to perform this activity due to responding to the event, the ED/GSS will perform or designate a temporary replacement as needed to support the Team dispatch function.

5.2 Once the Initial Response Emergency Organization (IREO) members have reported to the ECC, the following actions shall be performed.

5.2.1 GSS(SSM) will complete the "ED Turnover Checklist" (Exhibit 1a) and turnover ED responsibilities to the on call ED. After this turnover the GSS(SSM) will continue to fill out applicable portions of the "ED/GSS(SSM) Checklist" (Exhibit 1).

5.2.2 GOS or GSS(SSM) will brief the on call Operations Coordinator with the "ED Turnover Checklist". The Operations Coordinator will then establish communications and assume responsibilities as outlined in Exhibit 3.

5.2.3 CRO or person performing on shift OSC Coordinator duties will brief the on call (IREO) Operations Coordinator on the status of teams dispatched from the ECC. The Ops Coordinator in turn will brief the on call OSC Coordinator of team status.

5.2.4 The person performing Communication Coordinator duties will brief the on call Communication Coordinator on the status of communications and turnover responsibilities as outlined in EPIP-OC-.03.

5.2.5 The on call ECC Communicators will assume communicator duties as listed in Exhibit 8, 9 and 10.

5.3 A description of evacuation preplanning for Alternate Emergency Response Facilities is provided in Exhibit 5.

6.0 REFERENCES

6.1 2000-PLN-1300.01, OCNGS Emergency Plan.

6.2 Procedure 126, "Procedure for Notification of Station Events"

6.3 EPA 400-R-92-001, October 1991, Manual of Protective Action Guides and Protective Actions for Nuclear Incidents.

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

6.5 Evacuation Time Estimates Oyster Creek Nuclear Generating Station, Dresdner, Robin & Associates December 1991.

6.6 O C File No. 96003, Letter 6730-96-3167 dated 04/24/96 Summary of March 15, 1996 Emergency Preparedness Meeting with the NRC.

6.7 1820-IMP-1720.01, Emergency Public Information Implementing Procedure.

7.0 EXHIBITS

7.1 Exhibit 1, Emergency Director/GSS(SSM) Checklist

7.2 Exhibit 1a, ED Turnover Checklist

7.3 Exhibit 1b, Protective Action Recommendation Guide

7.4 Exhibit 1c, "Team Dispatch From CR" Checklist

7.5 Exhibit 2, Emergency Director Responsibilities

7.6 Exhibit 3, Operations Coordinator Responsibilities

7.7 Exhibit 4, Press Release Approval Guidance

7.8 Exhibit 5, Alternate Emergency Response Facilities

7.9 Exhibit 6, Emergency Director Authorization for Deviations from Requirements

7.10 Exhibit 7, Site Access Policy For Media During Emergencies

7.11 Exhibit 8, ECC Communications Coordinator Checklist

7.12 Exhibit 9, ECC Communicator - Engineering Line

7.13 Exhibit 9A, Equipment Status Display System

7.14 Exhibit 10, ECC Communicator Plant Status Update

7.15 Exhibit 11, Emergency Shift Schedule

7.16 Exhibit 12, HIFAX Log (Example)

7.17 Exhibit 13, Communicator Log (Example)

7.18 Exhibit 14, Emergency Message Form (Example)

7.19 Exhibit 15, Media Access Briefing Form

7.20 Exhibit 16, PAR Notification Form

EMERGENCY DIRECTOR/GSS(SSM) CHECKLIST

EXHIBIT 1

"UNUSUAL EVENT"

Initial When Completed

1.0 Activate the ECC by performing the following (classification):

_____ 1.1 EAL: _____

_____ 1.2 Announce self as ED. Announce emergency classification and give brief description/reason for declaration: _____
_____

1.3 Remain cognizant of plant conditions/EALs to ensure appropriate emergency classification is declared.

2.0 Notifications

_____ 2.1 Direct that offsite agencies are notified IAW EPIP-OC-.03.

_____ 2.1.1 N.J. State Police (within 15 minutes).

_____ 2.1.2 NRC (within 1 hour).

_____ 2.1.3 Brief BNE when BNE representative calls Control Room (should be within 30 minutes of declaration - if no return call - contact NJSP and inform them). Conduct periodic briefings as requested and time permits.

_____ 2.2 Direct that plant page announcements and management notifications be made IAW EPIP-OC-.03.

_____ 2.3 Direct Security Shift Supervisor to implement EPIP-OC-.40 (Security actions). When time permits, discuss whether sabotage was involved.

3.0 Protective Actions

_____ 3.1 Consider hazards to site personnel (see Exhibit 1b).

4.0 As necessary, review Exhibit 2, ED Responsibilities.

5.0 If media access to the site is requested, refer to Exhibit 7, "Site Access Policy For Media During Emergencies".

EMERGENCY DIRECTOR/GSS(SSM) CHECKLIST

EXHIBIT 1 (CONT'D)

"UNUSUAL EVENT"

6.0 All deviations from procedures, equipment operating limits, Technical Specifications, License, and License Conditions will be authorized and documented using the guidance in Exhibit 6.

7.0 Review and approval of press releases should be accomplished in a timely manner. The guidance in Exhibit 4 may be used to facilitate the review.

NOTE

The IREO and the TSC are not normally activated during an Unusual Event. Step 8.0 below applies only if the IREO ED and/or TSC is activated.

8.0 ED Briefing/Turnover

_____ 8.1 Contact and brief Initial Response ED, utilize office, home, or pager phone numbers as necessary.

_____ 8.2 At direction of initial response ED conduct a turnover to him (or in his absence, ESD) using Exhibit 1a. This turnover should be complete prior to the IREO ED assuming the position. The assumption of the ED position by the IREO ED should be the final step in activating the TSC.

9.0 Termination/Recovery (If not turned over to Initial Response ED). If plant is in a stable configuration and NO emergency action level criteria apply:

_____ 9.1 Direct Termination Page Announcement.

_____ 9.2 Direct Termination Notifications Offsite.

_____ 9.3 Conduct close-out briefing with BNE.

_____ 9.4 Issue a press release.

EMERGENCY DIRECTOR/GSS(SSM) CHECKLIST

EXHIBIT 1 (CONT'D)

"ALERT"

Initial When Completed

1.0 If not already activated, activate the ECC and classify or reclassify the event by performing the following:

_____ 1.1 EAL: _____

_____ 1.2 If not relieved by Initial Response ED, announce self as ED, announce emergency classification, and give brief description/reason for declaration: _____
_____

1.3 Remain cognizant of plant conditions/EALs to ensure appropriate emergency classification is declared.

2.0 Notifications

_____ 2.1 Direct that offsite agencies are notified IAW EPIP-OC-.03.

_____ 2.1.1 N.J. State Police (within 15 minutes).

_____ 2.1.2 NRC (within 1 hour).

_____ 2.1.3 Brief BNE when BNE representative calls Control Room (should be within 30 minutes of initial declaration - if no return call - contact NJSP and inform them). Conduct periodic briefings as requested and time permits.

2.2 Direct that plant page announcements and management notifications be made IAW EPIP-OC-.03.

_____ 2.3 Direct Security Shift Supervisor to implement EPIP-OC-.40 (Security actions) and EPIP-OC-.41 (activation of ERO). (Should be within 15 minutes of initial declaration).

_____ 2.3.1 When time permits discuss whether sabotage was involved.

_____ 2.4 If necessary call out a licensed or certified individual, preferably a GOS or GSS(SSM), to support the OSC.

3.0 Protective Actions

_____ 3.1 Consider hazards to site personnel (see Exhibit 1b).

4.0 As necessary, review Exhibit 2, ED Responsibilities.

5.0 If media access to the site is requested, refer to Exhibit 7, "Site Access Policy For Media During Emergencies".

EMERGENCY DIRECTOR GSS(SSM) CHECKLIST

EXHIBIT 1 (CONT'D)

"ALERT"

6.0 All deviations from procedures, equipment operating limits, Technical Specifications, License, and License Conditions will be authorized and documented using the guidance in Exhibit 6.

7.0 Review and approval of press releases should be accomplished in a timely manner. The guidance in Exhibit 4 may be used to facilitate the review.

_____ 8.0 At direction of Initial Response ED conduct a turnover to him (or in his absence, ESD) using Exhibit 1a. This turnover should be complete prior to the IREO ED assuming the position. The assumption of the ED position by the IREO ED should be the final step in activating the TSC.

9.0 Emergency Teams shall be directed from the ECC until the OSC is operational. Exhibit 1c should be used to track Emergency Teams. Teams may be directed by the ECC until the OSC Coordinator is available at the OSC to direct teams. At that time, team dispatch may be turned over to the OSC.

10.0 Termination/Recovery (If not turned over to Initial Response ED or ESD)

_____ 10.1 Implement EPIP-OC-.45.

_____ 10.2 Conduct close-out briefing with BNE.

EMERGENCY DIRECTOR GSS(SSM) CHECKLIST

EXHIBIT 1 (CONT'D)

"SITE AREA EMERGENCY"

Initial When Completed

1.0 If not already activated, activate ECC and classify or reclassify event by performing the following:

_____ 1.1 EAL: _____

_____ 1.2 If not relieved by Initial Response ED, announce self as ED, announce emergency classification, and give brief description/reason for declaration: _____
_____

1.3 Remain cognizant of plant conditions/EALs to ensure appropriate emergency classification is declared.

2.0 Notifications

_____ 2.1 If not turned over to the EOF, direct that offsite agencies be notified IAW EPIP-OC-.03.

_____ 2.1.1 N.J. State Police (within 15 minutes).

_____ 2.1.2 NRC (within 1 hour).

_____ 2.1.3 Brief BNE when BNE Representative calls Control Room (should be within 30 minutes of initial declaration - if no return call - contact NJSP and inform them). Conduct periodic briefings as requested and time permits.

_____ 2.2 Direct that plant page announcements and management notifications are made IAW EPIP-OC-.03.

_____ 2.3 If not already done, direct Security Shift Supervisor to implement EPIP-OC-.40 (Security Actions) and EPIP-OC-.41 (Activation of ERO). (Should be within 15 minutes of initial declaration).

_____ 2.3.1 When time permits discuss whether sabotage was involved.

_____ 2.4 If necessary call out a licensed or certified individual, preferably a GOS or GSS(SSM), to support the OSC.

3.0 Protective Actions

_____ 3.1 Consider hazards to site personnel (see Exhibit 1b).

EMERGENCY DIRECTOR GSS/(SSM) CHECKLIST

EXHIBIT 1 (CONT'D)

"SITE AREA EMERGENCY"

3.2 If not relieved by Initial Response ED, direct site accountability.

_____ 3.2.1 Provide route to EAA. RAC/GRCS may be asked for input.

> NOTE
>
> Essential personnel within the protected are should be accounted for within 30 minutes. Full accountability should be achieved within 60 minutes. If not, search and rescue efforts should commence.

3.3 ECC support of site accountability

> NOTE
>
> References to the North Gate are only applicable when the gate is open during outages.

_____ 3.3.1 In the event of Security Computer failure assign an individual to collect accountability cards in facility or slot numbers from those outside the ECC. (Ensure Radwaste and all other Operations personnel are included)

_____ 3.3.2 Direct individual to call the Main Gate Security with badge slot numbers within 10 minutes of initial declaration of accountability

Main Gate - dial code 80 on the Security Line or 4950 from Site Phone

_____ 3.3.3 Accountability notification completed for facility.

_____ 3.4 Review PAR Logic Diagram (Exhibit 1b)

_____ 3.5 Consider the need to continue radwaste operations and direct Radwaste Operators appropriately. Inform Initial Response ED, when available, of disposition.

4.0 As necessary, review Exhibit 2, ED Responsibilities.

EMERGENCY DIRECTOR GSS/(SSM) CHECKLIST

EXHIBIT 1 (CONT'D)

"SITE AREA EMERGENCY"

5.0 If media access to the site is requested, refer to Exhibit 7, "Site Access Policy For Media During Emergencies".

6.0 All deviations from procedures, equipment operating limits, Technical Specifications, License, and License Conditions will be authorized and documented using the guidance in Exhibit 6.

7.0 Review and approval of press releases should be accomplished in a timely manner. The guidance in Exhibit 4 may be used to facilitate the review.

8.0 ED Turnover (If not previously completed).

_____ 8.1 At direction of Initial Response ED conduct a turnover to him (or in his absence, ESD) using Exhibit 1a. This turnover should be complete prior to the IREO ED assuming the position. The assumption of the ED position by the IREO ED should be the final step in activating the TSC.

9.0 Emergency Teams shall be directed from the ECC until the OSC is operational. Exhibit 1c should be used to track Emergency Teams. Teams may be directed by the ECC until the OSC Coordinator is available at the OSC to direct Emergency Teams. At that time, team dispatch may be turned over to the OSC.

10.0 Termination/Recovery (If not turned over to Initial Response ED/ESD).

_____ 10.1 Implement EPIP-OC-.45.

_____ 10.2 Conduct close-out briefing with BNE.

EMERGENCY DIRECTOR CHECKLIST
EXHIBIT 1 (CONT'D)
"GENERAL EMERGENCY"

Initial When Completed

1.0 If not already activated, activate the ECC and classify or reclassify the event by performing the following:

_____ 1.1 EAL: _____

_____ 1.2 If not relieved by Initial Response ED, announce self as ED, announce emergency classification, and give brief description/reason for declaration: _____
_____

1.3 Remain cognizant of plant conditions/EALs to ensure appropriate emergency classification is declared.

2.0 Notifications

_____ 2.1 If not turned over to the EOF, direct that offsite agencies be notified IAW EPIP-OC-.03.

_____ 2.1.1 N.J. State Police, Ocean County, Ocean Township, and Lacey Township (within 15 minutes).

_____ 2.1.2 NRC (within 1 hour).

_____ 2.1.3 Brief BNE when BNE representative calls Control Room (should be within 30 minutes of initial declaration - if no return call - contact NJSP and inform them). Conduct periodic briefings as requested and time permits.

_____ 2.2 Direct that plant page announcements and management notifications are made IAW EPIP-OC-.03.

_____ 2.3 If not already done, direct Security Shift Supervisor to implement EPIP-OC-.40 (Security Actions) and EPIP-OC-.41 (ERO Activation). (Should be within 15 minutes of initial declaration).

_____ 2.3.1 When time permits discuss whether sabotage was involved.

_____ 2.4 If necessary call out a licensed or certified individual, preferably a GOS or GSS(SSM), to support the OSC.

3.0 Protective Actions and Recommendations

_____ 3.1 If turnover to IREO ED or ESD is not complete, personally convey the PAR to the Senior State official at the State EOC using Exhibit 16, within approximately 15 minutes of declaration (see Exhibit 1b, PAR Logic Diagram).

3.1.1 Discuss with BNE representative as soon as time permits.

EMERGENCY DIRECTOR CHECKLIST

EXHIBIT 1 (CONT'D)

"GENERAL EMERGENCY"

_____ 3.2 Direct page announcement for site evacuation of nonessential personnel IAW EPIP-OC-.03. If turnover to ED is complete, obtain his concurrence with announcement.

_____ 3.2.1 Provide Security with selected assembly area and route. [ ] Forked River Bld. 14 - or [ ] Berkeley Customer Operations Center.

_____ 3.3 Consider need to continue Radwaste operations and direct Radwaste Operators appropriately. Inform Initial Response ED, when available, of disposition.

4.0 As necessary, review Exhibit 2, ED Responsibility.

5.0 If media access to the site is requested, refer to Exhibit 7, "Site Access Policy For Media During Emergencies".

6.0 All deviations from procedures, equipment operating limits, Technical Specifications, License, and License Conditions will be authorized and documented using the guidance in Exhibit 6.

7.0 Review and approval of press releases should be accomplished in a timely manner. The guidance in Exhibit 4 may be used to facilitate the review.

8.0 ED Turnover (If not previously completed).

_____ 8.1 At direction of Initial Response ED conduct a turnover to him (or in his absence, ESD) using Exhibit 1a. This turnover should be complete prior to the IREO ED assuming the position. The assumption of the ED position by the IREO ED should be the final step in activating the TSC.

9.0 Emergency Teams shall be directed from the ECC until the OSC is operational. Exhibit 1c should be used to track Emergency Teams. Teams may be directed by the ECC until the OSC Coordinator is available at the OSC to direct teams. At that time, team dispatch may be turned over to the OSC.

10.0 Recovery

_____ 10.1 Implement EPIP-OC-.45 (if not turned over to Initial Response ED/ESD).

_____ 10.2 Conduct close-out briefing with BNE (if not turned over to ESD).

EXHIBIT 1a

EMERGENCY DIRECTOR TURNOVER CHECKLIST
(Page 1 of 3)

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 (CONT'D)

EMERGENCY DIRECTOR TURNOVER CHECKLIST
(Page 2 of 3)

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 Diesel Generators running? EDG#1 YES - NO EDG#2 YES - NO

Are the Station Blackout CTs 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 (CONT'D)
EMERGENCY DIRECTOR TURNOVER CHECKLIST

(Page 3 of 3)

Are there any open technical issues? YES - NO

Specify _____

_____

News releases issued ATTACHED

NOTES:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Turnover Completed: Date _____ Time * _____

Current ED _____ Oncoming ED _____
Sign Sign

*Note time should be filled in when the oncoming ED assumes ED responsibilities.

EXHIBIT 1b

PROTECTIVE ACTION RECOMMENDATIONS GUIDE

1.0 Onsite

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 Whole Body Dose (TEDE). Consult RAC.

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

> NOTE
>
> 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. Consider securing Main, Turbine Bldg., and Computer Room doors to the Control Room in accordance with Control Room HVAC Procedure 331.1 if radiological release could affect Control Room personnel.

1.5 Consider protective actions such as: leaving the site, sheltering, or evacuation to an assembly area for Forked River Site, Combustion Turbine Site, Southern Area Stores Warehouse, Oyster Creek Administration Building (OCAB), 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 RECOMMENDATIONS GUIDE

1.6 Consider use of KI if personnel have been exposed to significant 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 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's to the State within approximately 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).

EXHIBIT 1b (CONT'D)

PROTECTIVE ACTION RECOMMENDATIONS GUIDE

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).

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" and "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, Protective Action Recommendations should not be immediately necessary, however, the PAR Logic Diagram should be reviewed.

2.3 Offsite protective actions should not be required during an Unusual Event or Alert.

EXHIBIT 1B (CONT'D)
OYSTER CREEK
PAR LOGIC DIAGRAM

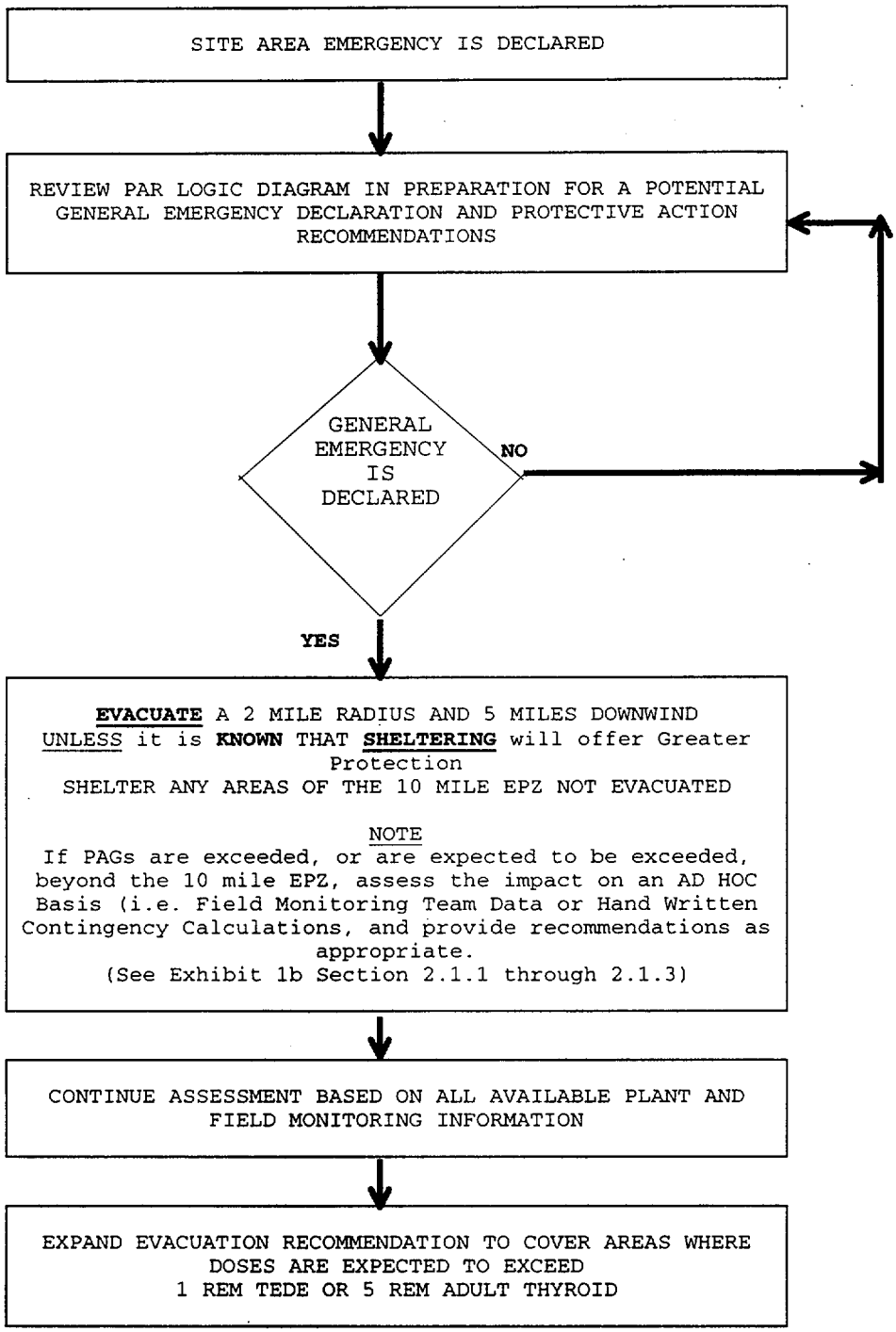

EXHIBIT 1c(Example)
"TEAM DISPATCH FROM C.R." CHECKLIST

NOTE

Start team numbers as ECC-001, ECC-002 etc.

Team Member Name(s): _____ Team No.:_____
_____
_____

INITIAL SPACE AT RIGHT

1.0 Member(s) has/have been advised of radiological and/or industrial hazards in area or route. _____
2.0 Radiological monitoring capability is available to team. (Dose rate meter, alarming dosimeter or Rad Con escort) _____
3.0 Work scope and direction has been provided to team. _____
Location Dispatch to: _____
Function of Team: _____
_____
_____
Time team returned and brief description of function.
_____
_____
_____

Team Member Name(s): _____ Team No.:_____
_____
_____

INITIAL SPACE AT RIGHT

1.0 Member(s) has/have been advised of radiological and/or industrial hazards in area or route. _____
2.0 Radiological monitoring capability is available to team. (Dose rate meter, alarming dosimeter or Rad Con escort) _____
3.0 Work scope and direction has been provided to team. _____
Location Dispatch to: _____
Function of Team: _____
_____
_____
Time team returned and brief description of function.
_____
_____
_____

Team Member Name(s): _____ Team No.:_____
_____
_____

INITIAL SPACE AT RIGHT

1.0 Member(s) has/have been advised of radiological and/or industrial hazards in area or route. _____
2.0 Radiological monitoring capability is available to team. (Dose rate meter, alarming dosimeter or Rad Con escort) _____
3.0 Work scope and direction has been provided to team. _____
Location Dispatch to: _____
Function of Team: _____
_____
_____
Time team returned and brief description of function.
_____
_____
_____

EXHIBIT 2

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 offsite 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.

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 onsite 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.

EXHIBIT 2
(continued)

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.

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 judgement 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 licensing conditions or technical specifications, notify the NRC before taking such actions if time permits or if time does not permit then within one hour.

EXHIBIT 2
(continued)

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 Director 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 3

OPERATIONS COORDINATOR RESPONSIBILITIES

A. Coordinate operations and maintenance activities through the GSS(SSM) and the OSC Coordinator.

B. Establish and maintain direct communication with the TSC and OSC (when activated).

C. Inform the ED of all significant plant changes and status of operator responses.

D. Ensure ED's directions are provided to and implemented by the ECC (GSS(SSM)) and the OSC (OSC Coordinator).

E. Consider the effects of operations and maintenance activities to off-site and on-site personnel prior to and during event response.

EXHIBIT 4

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 release shall 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. Operations 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).

EXHIBIT 4

PRESS RELEASE APPROVAL GUIDANCE

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.

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. 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.

EXHIBIT 4

PRESS RELEASE APPROVAL GUIDANCE

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.
- 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 press 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 5
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(SSM) 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.
5. Emergency Assembly Area - The EAA may be redirected to the Forked River Assembly Area or to the Remote Assembly Area at Berkeley Customer Operations Center 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 6

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 E6-2 & 3 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 consistent 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: _____
(use ENS line)

NRC Person Notified: _____

EXHIBIT 6

EMERGENCY DIRECTOR AUTHORIZATION FORM
FOR DEVIATIONS FROM REQUIREMENTS
(continued)
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 or 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 73.55(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 of the Emergency Response Facilities *Activation/use of Emergency Response Facilities *Use of ERDs (Emergency Response Data System)	All of theses 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 the NRC is being suspended without NRC concurrence to protect public health and safety.

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 from 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 requires 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 E6-1.

EXHIBIT 6

EMERGENCY DIRECTOR AUTHORIZATION FORM
FOR DEVIATIONS FROM REQUIREMENTS
(continued)

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 (ie., 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 judgement 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 extent practicable with the Technical Experts at the TSC in arriving at a decision to deviate rom prescribed procedures. However, Emergency Operating Procedures should not generally 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 7

SITE ACCESS POLICY FOR MEDIA DURING EMERGENCIES

Providing reasonable site access to the media during a plant emergency is in the best interest of the corporation 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 Department 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 15, 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 at Bldg. 14 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.

EXHIBIT 7 (cont.)

SITE ACCESS POLICY FOR MEDIA DURING EMERGENCIES

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 8

ECC COMMUNICATIONS COORDINATOR CHECKLIST

INITIALS

_____1.0 Report to the Operations Coordinator\ED Assistant and support information transmittals to the TSC, OSC, EOF, BNE and NRC. Also corporate engineering if applicable.

2.0 Direct communications operations at the facility and ensure all communicator actions are completed in accordance with procedure.

_____3.0 Implement EPIP-OC-.03, Emergency Notification.

NOTE
Initial Off-site notifications to the State must be accomplished within fifteen (15) minutes of the declaration.

_____4.0 Continue Off-site notifications until the ESD has assumed the offsite notification and the EOF communicator relieves the ECC of that responsibility. The ECC will continue to make On-Site plant page announcements.

NOTE
Transmissions of information to the NRC and BNE may require special attention. Any NRC and BNE needs should be addressed as soon as practical.

_____5.0 When relieved of Off-Site Notifications, by the EOF Communicator, the ECC Communicator shall provide a turnover of prior notifications made by ECC via the telephone and follow up with a fax of all completed notifications made from the ECC.

NOTE
On-site plant page announcements will remain the responsibility of the ECC.

_____6.0 In accordance with EPIP-OC-.03 establish and maintain communications with Off-site agencies until relieved by the TSC or EOF Communications Coordinator.

EXHIBIT 8
(continued)

ECC COMMUNICATIONS COORDINATOR CHECKLIST

INITIALS

NOTE
After EOF is activated and the BNE is present, the transmission of Station Statues Checklist to BNE should be terminated.

_____7.0 Initiate the development of watch bill for your organization that will support the emergency on a 24 hour/day basis. (Exhibit 11)

_____8.0 Ensure that communications to the NRC via NRC/ENS line, this function may be transferred to the TSC if communications personnel are available in that location. This may require callout of addition personnel.

NOTE
Notifications are required within 1 HR of declarations. NRC may require constant manning of this phone.

9.0 When the TSC communication coordinator is fully staffed and ready, transfer ENS line responsibilities to the TSC. NRC may resist this transfer but manpower limitations mandate it. If ERDS is operational it will facilitate the transfer.

_____10.0 As requested, provide the Ops. Coordinator with the status of the OSC teams utilizing an available lan based PC

NOTE
If this system fails, obtain status via phone and ensure the Ops Coordinator is kept apprised.

_____11.0 Report failed communications systems to the TSC Communications Coordinator. Provide specific information for each trouble report including: circuit, nature of problem, location, etc.

EXHIBIT 8
(continued)

ECC COMMUNICATIONS COORDINATOR CHECKLIST

INITIALS

_____12.0 Call out additional personnel, if required (e.g., for NRC interface)

NOTE

For call out of Duty Roster personnel, contact Security Shift Supervisor. For additional staff, contact Group Leader Adm Support/ If not available, use normal dept. call-out methods.

13.0 If the plant computer system fails, transmit critical plant parameters to the TSC approximately every fifteen (15) minutes, or as conditions change.

_____14.0 Ensure equipment status is maintained by the assigned communicator. If this system fails, equipment status should be manually transmitted to the TSC every thirty (30) minutes or as conditions change.

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

15.1 If Off-site notifications responsibility has been transferred, this responsibility should be transferred also. Verify completion with appropriate Communications Coordinator.

_____16.0 All completed logs and records are then forwarded to the Emergency Preparedness Dept.

Signature _____ Date _____
ECC Comm. Coord.

EXHIBIT 9

ECC COMMUNICATOR

Engineering Line

INITIALS

_____ 1.0 Report to ECC Comm. Coordinator.

2.0 As required, conference the Engineering line.

3.0 If the Plant Computer System is inoperable, obtain and complete Critical Plant Parameters sheet and ensure it is transmitted over the fax to all centers except ECC.

NOTE
Use the time the data was compiled as opposed to the time the data is sent when filling out the sheet.

4.0 Maintain the Equipment Status Display on the computer with EP applications for current Plant Status. (Instructions are in Exhibit 9A.)

5.0 Complete Station Status Checklist and transmit it to the BNE until the BNE function is at the EOF. Obtain directions from the ECC Comm. Coord. on when to terminate transmittal.

6.0 Maintain a Communicator Log (Exhibit 13) which includes:

- Verbal communication messages not documented in writing elsewhere.
- Any relevant information to communicator duties.

7.0 The Communicator may request the assistance of the Communications Coordinator to assign other personnel, such as the Off-shift STA, to perform Station Status Checklist transmission, or other tasks as necessary.

EXHIBIT 9A

EQUIPMENT STATUS DISPLAY SYSTEM

1.0 Ensure that the computer with the EP applications is logged onto the LAN.

2.0 Open the "EP Applications" folder.

3.0 Double Click on the ESDS Icon.

4.0 Select the center from which you are accessing ESDS (i.e.; ECC, TSC, CSC, Other).

5.0 IF asked "Do you wish to reset status screen", THEN click the YES button.

NOTE

The ECC and TSC have the ability to change equipment status and add comments. The OSC has the ability to add comments. All other centers can view status. All changes being made by the TSC or OSC should be coordinated with the ECC Engineering Line Communicator.

EXHIBIT 10

ECC COMMUNICATOR

Plant Status Update Line

INITIALS

_____ 1.0 Activate the fax machine and select A/B switch for desired line.

1.1 Line "A" is the primary which is commercial line i.e. 609-971-XXXX.

1.2 Line "B" is the backup which is the EP Circuit.

_____ 2.0 Set time and date of fax by PCS clock.

_____ 3.0 Send test transmission to TSC, OSC, and EOF (when activated). If messages are waiting, the first may be used as the test transmission.

4.0 Number and log each fax transmission using Exhibit 12.

NOTE

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

5.0 The priority for routine transmissions are:

- Critical Plant Parameters to TSC (every 15 minutes at a minimum) if the Plant Computer System is inoperable.
- Equipment Diagrams to TSC (every 30 minutes or as changes occur) if equipment status display system is inoperable.
- Station Status checklist to BNE at least every 30 minutes until they are activated at EOF or as directed by the Comm. Coordinator. (Must change Fax to commercial line "A".)
- Other transmissions, Emergency Message Forms with appropriate information (Exhibit 14).

NOTE

The ECC Communications Coordinator may pre-empt these priorities.

6.0 Receive, log and distribute messages sent via fax to ECC.

EXHIBIT 11

EMERGENCY SHIFT SCHEDULE

DATE:

GROUP (eg. Admin.):

TIME:	SHIFT 1	SHIFT 2	SHIFT 3
BEGIN			
END			

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

EXHIBIT 12 HIFAX LOG

EXAMPLE

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

EXHIBIT 13

EXAMPLE

OYSTER CREEK GENERATING STATION
EMERGENCY COMMUNICATIONS

Communicator Log

Location: _____ Date: _____

Name: _____

Time:	Remarks:

EXHIBIT 14

EXAMPLE

Number _____

OCGS 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 15

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 16

PAR NOTIFICATION FORM

SAMPLE

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".

☐ THIS IS A DRILL; THIS IS A DRILL or

☐ THIS IS **NOT** A DRILL; THIS IS **NOT** A DRILL.

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-.03

Title		Revision No.
EMERGENCY NOTIFICATION		29
Applicability/Scope Applies to work at Oyster Creek	Usage Level 2	Responsible Department Emergency Preparedness
This document is within QA plan scope 50.59 Applicable	X Yes ___ No ___ Yes X No	Effective Date 11-7-01

Prior Revision 28 incorporated the following Temporary Changes:

N/A

This Revision 29 incorporates the following Temporary Changes:

N/A

List of Pages (all pages rev'd to Rev. 29)

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	11/17/01
Concurred By		Plant Manager	10/23/01
Approved By	ERIC D. TALLEART	Emergency Preparedness Mgr, OC	11/5/01

PROCEDURE HISTORY

Revision	Date	Originator	Summary of Change
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.
28	08/01	A. Smith	Remove "Designated CRD" from step 4.2. This was inserted accidentally in Rev. 27.
29	10/01	A. Smith	50.59 Applicability to "NO", correct typo Pg. 7 Procedure 1820-IMP-1720.01. Add "this is a drill" and "this is not a drill" to Exhibit 1B plus sample.

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 Unit Supervisor/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 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 1820-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) | PART 1 OF 3 ED-Copy

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

EMERGENCY CLASSIFICATION

❑ An/a _____ was declared at _____ on _____ The EAL is _____

❑ The Event has been de-escalated to an/a _____ at _____ on _____ The EAL is _____

❑ The Event has been terminated at _____ on _____

EVENT DESCRIPTION

RADIOACTIVE RELEASE STATUS

❑ There is no abnormal radioactive release in progress.

❑ There is an abnormal (AIRBORNE/LIQUID) radioactive release in progress.

METEOROLOGICAL CONDITION

Wind direction is from _____ degrees and wind speed is _____ miles per hour

ON-SITE PROTECTIVE ACTION

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

❑ All on-duty members of the Emergency Response Organization report to emergency centers.

❑ All other personnel should continue with their normal duties pending further instructions.

❑ Eating, Drinking and Smoking is prohibited until further notice.

❑ **Site Accountability** has been ordered. All non-essential personnel in the protected area report to the Emergency Assembly Area in the select area: ❑ **OCAB Cafeteria** ❑ **Warehouse.** Route _____

❑ **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 _____

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.

5855 (04/01)

APPROVAL

_____
Name/Title Emergency Director Date

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

(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

☐ ________ was declared at ________ on ________ The EAL is ________
(Event Declared) (24 Hour Clock) (Date)

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

☐ The Event has been terminated at ________ on ________
(24 Hour Clock) (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

☐ All personnel should continue with their normal duties pending further notice.

☐ All on-duty members of the Emergency Response Organization report to emergency centers.

☐ All other personnel should continue with their normal duties pending further instructions.

☐ Eating, Drinking and Smoking is prohibited until further notice.

☐ **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 ________

☐ **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 ________

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

SAMPLE

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".

☐ This is a drill. This is a drill.

☐ This is NOT a drill. This is NOT a drill.

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-.11

Title	Revision No.
Emergency Radiological Surveys Offsite	17

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	11/7/01
50.59 Reviews required	___ Yes	X No	

Prior Revision 16 incorporated the following Temporary Changes:

N/A

This Revision 17 incorporates the following Temporary Changes:

N/A

List of Pages (all pgs rev'd to Rev. 17)

1.0 to 4.0
E1-1 to E1-2
E2-1 to E2-6
E3-1
E4-1
E5-1
E6-1 to E6-2
E7-1
E8-1
E9-1 to E9-2
E10-1 to E10-2
E11-1 to E11-13
E12-1
E13-1 to E13-3
E14-1
E15-1
E16-1
E17-1

	Signature	Concurring Organizational Element	Date
Originator		~~Emergency~~ Planner	10/29/01
Concurred By	Mark Moore	Manager Radiation Protection	10/31/01
Approved By	FOR D. TAILLEART	Manager Emergency Preparedness	11/5/01

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.
17	10/10	A. T. Smith	Remove reference to Building 12.

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 2C.
_____	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	Connect the Air Sampler ON directly to the vehicle's battery terminals via bumper or grille.
_____	10.0	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 (OW) _____mr/hr (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

PAGE ____ OF ____ PAGES

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