

EPIP SERIES - EMERGENCY PLAN IMPLEMENTING PROCEDURES

<u>PROCEDURE NO.</u>	<u>TITLE</u>	<u>REV. NO.</u>	<u>DATE</u>
6630-ADM-4010.03	Emergency Dose Calculation Manual (EDCM)	11	07/23/00
EPIP-OC-.01	Classification of Emergency Conditions	9	12/11/00
EPIP-OC-.02	Direction of Emergency Response/Emergency Control Center	28	07/05/01
EPIP-OC-.03	Emergency Notification	27	07/05/01
EPIP-OC-.06	Additional Assistance and Notification	23	11/27/00
EPIP-OC-.10	Emergency Radiological Surveys Onsite	11	08/08/00
EPIP-OC-.11	Emergency Radiological Surveys Offsite	16	07/05/01
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)	24	07/05/01
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	10	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	1	08/08/01
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	1	08/08/00

**OYSTER CREEK
EMERGENCY PREPAREDNESS
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Number

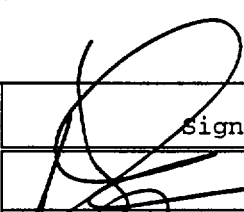
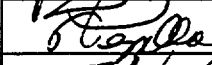


EPIP-OC-.12

Title PERSONNEL ACCOUNTABILITY		Revision No. 9
Applicability/Scope Applies to work at Oyster Creek Division & Support Divisions	Usage Level 2	Responsible Department Emergency Preparedness
This document is within QA plan scope <u>X</u> Yes ___ No 50.59 Reviews Required ___ Yes <u>X</u> No		Effective Date (06/27/01) 07/07/01
Prior Revision <u>8</u> incorporated the following Temporary Changes: <u>N/A</u>		This Revision <u>9</u> incorporates the following Temporary Changes: <u>N/A</u>

List of Pages (all pages rev'd to Rev. 9)

1.0 to 5.0
E1-1 to E1-3
E2-1 to E2-3
E3-1 to E3-2
E4-1

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	Signature	Concurring Organization Element	Date
Originator		Emergency Planner	6/22/01
Concurred By		Manager Security	6/27/01
		Plant Manager	6/22/01
Approved By	 FOR: J. CRISWOOD	Emergency Preparedness Manager	6/25/01

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1.0 PURPOSE

- 1.1 This procedure provides the method of conducting an accounting of personnel in the protected area during a declared or simulated emergency.
- 1.2 This procedure shall be initiated by the Emergency Director and implemented by the Security Coordinator.
 - 1.2.1 For clarity, the Security Coordinator will be referred to as the Security Shift Commander in this procedure.
- 1.3 This procedure provides guidance and direction for activation and operation of the Emergency Assembly Area (Materials Management Warehouse or OCAB Cafeteria).

2.0 APPLICABILITY/SCOPE

- 2.1 This procedure applies to Oyster Creek Site Security and Emergency Response Organization members for use in a declared or simulated emergency.

3.0 DEFINITIONS

- 3.1 Emergency Assembly Area - The Emergency Assembly Area is the designated location non-essential personnel will muster at to ensure:
 - (1) They are protected from an impending hazard on-site
 - (2) Pre-positioned to expeditiously evacuate the Site if and when required.
- 3.2 Two locations within the Owner Controlled Area will be available for use - OCAB Cafeteria(Primary) and/or Material Services Warehouse (Secondary). Other Locations may be used as necessary.

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4.0 RESPONSIBILITIES

- 4.1 The Emergency Director shall notify, via accountability page announcement, the Security Shift Commander that personnel accountability has been ordered and to implement this procedure. The OCAB Cafeteria shall be used as the primary location unless it is unavailable or inaccessible, then the Warehouse or other Locations will be used.
- 4.1.1 In the event the North Gate Processing Center is in use, all Badge North Gate personnel will exit the Main Gate enroute to the OCAB Cafeteria unless otherwise directed by the ED.
- 4.2 The Security Shift Commander shall:
- 4.2.1 Direct and oversee the personnel accountability process.
- 4.2.2 Report the current status of personnel accountability to the Emergency Director or Emergency Director Assistant 30 minutes after initiated.
- 4.2.3 Provide a list of personnel missing during accountability to Emergency Preparedness manager upon termination of emergency drill.
- 4.2.4 Ensure command and control at the Emergency Assembly Area.
- 4.3 The GSS and OSC, TSC and EAA Facility Coordinators shall direct accountability in their respective facilities and ensure accountability status is reported to Security within 10 minutes of accountability being initiated.
- 4.4 Emergency Assembly Area Coordinator - is responsible to direct and oversee the personnel accountability process at the EAA in accordance with Exhibit 4.

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5.0 PROCEDURE

- 5.1 The Emergency Director will notify the Security Shift Commander, directly or via accountability page announcement, that personnel accountability has been ordered and provide him any additional instructions deemed necessary.
- 5.2 The Security Shift Commander will implement Exhibit 1.
- 5.3 The Emergency Assembly Area Coordinator will implement Exhibit 4.

6.0 REFERENCES

None

7.0 EXHIBITS

- 7.1 Exhibit 1 - Personnel Accountability Form.
- 7.2 Exhibit 2 - Accountability Methods (Instructions).
- 7.3 Exhibit 3 - Emergency Assembly Area (Warehouse) Floor plan.
Exhibit 3A- Emergency Assembly Area (OCAB) Floor plan.
- 7.4 Exhibit 4 - Emergency Assembly Area Coordinators Checklist.

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EXHIBIT 1

PERSONNEL ACCOUNTABILITY FORM

Time/Initials

- | | |
|--------------------------|---|
| <u> / </u> | 1.0 Notified by Emergency Director that personnel accountability has been ordered. |
| <u> / </u> | 2.0 Secure security computer access points 113 through 116 (Accountability Key Card Readers). |
| <u> / </u> | 3.0 If security computer access points 113 through 116 cannot be secured, notify the following locations that the alternate accountability process will have to be used:

<input type="checkbox"/> Control Room
<input type="checkbox"/> Technical Support Center
<input type="checkbox"/> Operations Support Center
<input type="checkbox"/> EAA |
| <u> / </u> | 4.0 Security Officer dispatched to the receiving area to process warehouse personnel back into the protected area, if using warehouse. |
| <u> / </u> | 5.0 Establish communication with Emergency Assembly Area Coordinator. OCAB Ext. Primary 5277, Back-up 5276 or if warehouse is used dial 87 on EP Line.

<input type="checkbox"/> 5.1 After normal work hours (5 PM to 8 AM, Mon-Fri & Sat, Sun) dispatch Security Officer to EAA. (Ref 7.2.2, 7.2.3 and 7.2.4 Exhibit 1) |
| <u> / </u> | 6.0 Gate 3 opened.* |
| <u> / </u> | 6.1 Ensure Rad Pro Techs have been dispatched from the OSC to provide personnel monitoring while this gate is open. <u>Should plant conditions warrant</u> , the gate may be opened without Rad Con Personnel immediately available. However, personnel monitoring devices should be accessible. |
| <u> / </u> | 7.0 Primary/Alternate accountability process started.

<input type="checkbox"/> 7.1 Primary - Security computer generated listing obtained. List zones #1 through #14 in the security computer. Individuals that are listed in any zones other than 2, 8, 9, 10, and/or 15 must be contacted and their status determined. (Refer to Exhibit 2 for detailed instructions.)

<input type="checkbox"/> 7.2 Alternate - Security badge storage drawers inventoried for open slots. (Refer to Exhibit 2 for instructions.)

<input type="checkbox"/> 7.2.1 Security Officer dispatched to the Monitor and Control Area to muster RWP workers. Muster list should be submitted to Shift Commander within 10 minutes of Accountability announcement. |

* simulated during drills.

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9EXHIBIT 1
(continued)

PERSONNEL ACCOUNTABILITY FORM

Time/Initials

- ☐ 7.2.2 If using Warehouse, Security Officer dispatched to open south side personnel door (131-D) of the Emergency Assembly Area to collect accountability cards and ensure proper use of security key cards and accountability key card readers.
- ☐ 7.2.3 Security Officer to ensure Rad Pro Techs have been dispatched from the OSC to provide personnel monitoring.

NOTE

Once the Rad Pro Techs have arrived they will assist in the duties of the EAAC (Exhibit 4) until the EAAC arrives, in addition to Personnel Monitoring.

- ☐ 7.2.4 Accounting reports received from the following locations:
- ☐ Control Room
 - ☐ Technical Support Center
 - ☐ Operations Support Center
 - ☐ Monitor and Control Area
 - ☐ EAA
- ☐ 7.2.5 Accountability reports compared with security badge storage drawer inventory sheets (or computer generated listing) and the following determined:
- ☐ A. All personnel accounted for - No action required.
 - ☐ B. Missing person(s) - Action required (per Step 11.0).
 - ☐ C. Reporting/Inventory Error - Determine source of error and follow action outlined in Part A or B above.

/ 8.0 Report current accountability status to Emergency Director or ED Assistant within 30 minutes of accountability initiation.

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9EXHIBIT 1
(continued)

PERSONNEL ACCOUNTABILITY FORM

- _____/____ 9.0 Accountability completed, final status reported to Emergency Director or ED Assistant. (Complete within 30 minutes if possible).
- _____/____ 10.0 Page missing person(s). If no response within 2 minutes, attempt to contact the supervisor(s) of the missing person(s). Further action may include attempts to contact the person(s) at home or at EAA (Security Line, dial code 87 for Warehouse or OCAB Cafeteria Ext. 5276/5277).
- _____/____ 11.0 Provide a list of missing persons to Emergency Preparedness Manager upon termination of emergency/drill.

Signature: _____ Date: _____
Security Shift Commander

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9EXHIBIT 2

ACCOUNTABILITY METHODS

1.0 Primary Accountability Method

- 1.1 The security computer system will be used as the primary method of Site Accountability. A listing of all unaccounted for personnel within the Protected Area can be obtained from the security computer system by listing zones #1 through #14.

NOTE

Radwaste Operators are tracked as a team at the "ALERT" level and above, but are not logged in on the OSC Card Reader. The OSC will provide their names and key card numbers to the Main Security Gate when Site Accountability is ordered.

- 1.2 The security computer listing will result in one of the conditions listed below:

- 1.2.1 First Condition: All security key card numbers identified on the security computer generated listing are listed in Zones 2, 8, 9, and/or 10.

Required Action: The Security Shift Commander shall notify the Emergency Director or ED Assistant that all personnel in the Protected Area have been accounted for.

- 1.2.2 Second Condition: Security key card numbers that are identified on the security computer generated listing are listed in Zones 1, 3, 4, 5, 6, 7, 11, 12, and 14.

Required Action: The Security Shift Commander shall attempt to locate the missing person(s) by paging the individual(s) on the plant page system, or by any other means available. The Security Shift Commander must report the current status of Site Accountability to the Emergency Director or ED Assistant within 30 minutes of accountability initiation. Once Site Accountability has been completed, the Security Shift Commander shall notify the Emergency Director or ED Assistant, and provide the names and slot numbers of the missing persons, if any. A copy of the missing persons list will also be sent to Emergency Preparedness at the completion of the emergency/drill.

- 1.3 In the event of a security computer failure, the alternate accountability process will have to be used. Personnel accountability cards will have to be collected from the Control Room, Technical Support Center, Operations Support Center, Monitor and Control Area, Security Department, and the Emergency Assembly Area (if the Warehouse is used). (Refer to Section 2.0 for instructions.)

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9**EXHIBIT 2
(Continued)****ACCOUNTABILITY METHODS****2.0 Alternate Accountability Method**

- 2.1 Upon receiving notification that accountability has been ordered, the Security Shift Commander will direct Security Officers to inventory all security badge storage drawers for open slots. Using the security badge storage drawer inventory sheets provided in the accountability packet, the Security Officers will identify all slot numbers that are empty (no Accountability Card or I.D. Badge present). When the Accountability Cards are returned from other mustering points, these slot numbers will be crossed off the security badge storage drawer inventory sheets.

NOTE

Radwaste Operators are tracked as a team at the "ALERT" level and above, but are not logged in on the OSC Card Reader. The OSC will provide their names and key card numbers to the Main Security Gate when Site Accountability is ordered.

- 2.2 The Security Shift Commander will ensure that accountability reports are received from the Control Room, Technical Support Center, Operations Support Center, Monitor and Control Area, and the Security Department. These slot numbers shall be crossed off the security badge storage drawer inventory sheets.
- 2.3 Results of the above comparison may result in one or more of the conditions listed below:
- 2.3.1 First Condition: All security badge slot numbers that were identified on the security badge storage drawer inventory sheets (or computer generated listing) correspond with the security badge slot numbers received during the accountability process.
- Required Action: The Security Shift Commander will notify the Emergency Director or ED Assistant that all personnel in the protected area have been accounted for.
- 2.3.2 Second Condition: Security badge slot numbers that were identified appear on the security badge storage drawer inventory sheets (or computer generated listing) but were not received during the accountability process.
- Required Action: The Security Shift Commander will notify the Emergency Director or ED Assistant that accountability has been completed, and provide the names and slot numbers of missing persons, if any. A copy of the list of missing persons will be sent to Emergency Preparedness Manager at termination of emergency/drill.

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(Continued)

ACCOUNTABILITY METHODS

- 2.3.3 Third Condition: Security badge slot numbers received during the accountability process do not appear as identified on the security badge storage drawer inventory sheet (or computer generated listing).

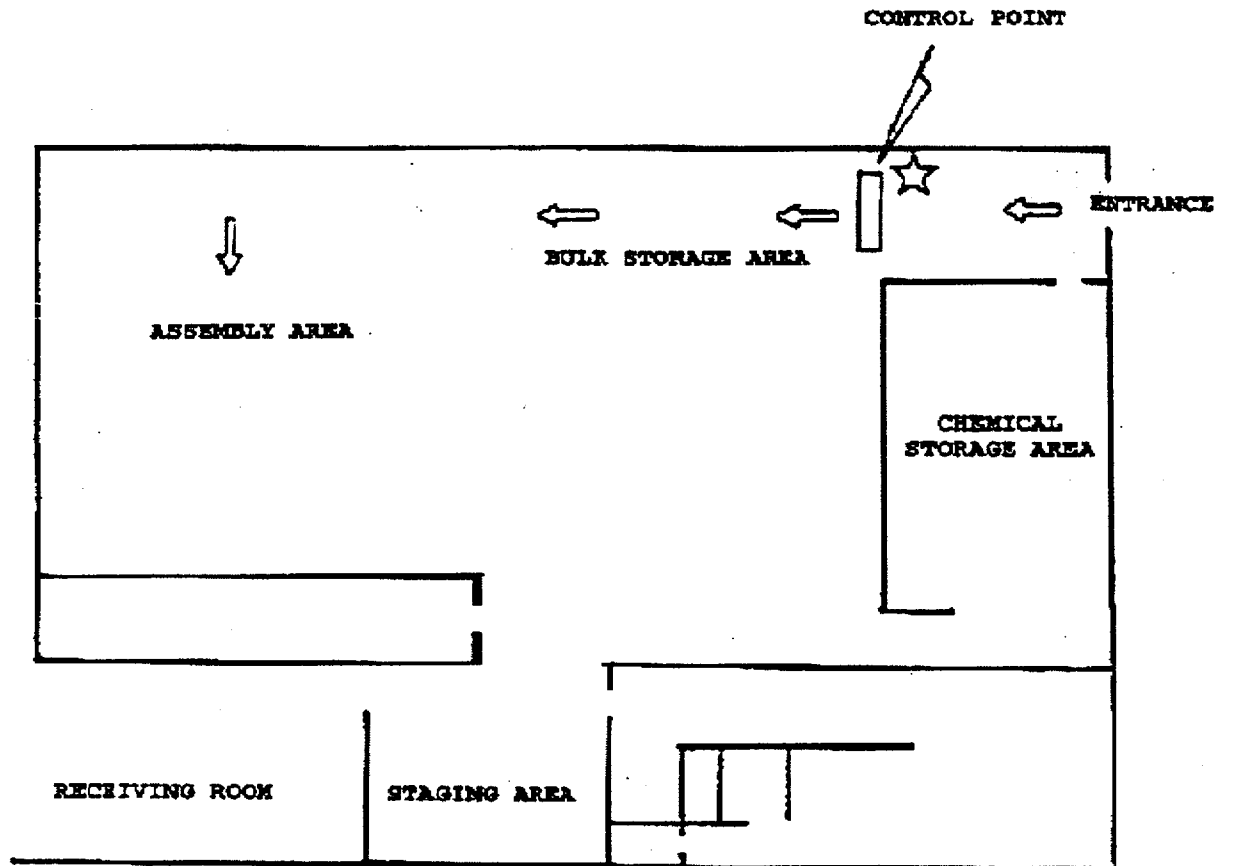
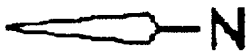
Required Action: Determine the source of the error, i.e., security badge filed in the wrong slot, incorrect security badge slot number recorded on the security badge storage drawer inventory sheet. Upon resolution of the discrepancies, the Security Shift Commander will notify the Emergency Director or ED Assistant that all persons have been accounted for or provide the names and slot numbers of missing persons, if any. A copy of this list of missing persons will be sent to Emergency Preparedness Manager at termination of emergency/drill.

- 2.4 Page missing persons using the Plant Page System. Attempts should be made to contact the supervisors of the missing persons not responding within two minutes. Other actions may include attempts to telephone persons at home or at the Emergency Assembly Area (Primary OCAB Ext. 5276/5277) or (Secondary warehouse if used Security dial code 87).
- 2.5 The Security Shift Commander will ensure that a list of missing personnel has been forwarded to Emergency Preparedness upon termination of emergency/drill.

Title

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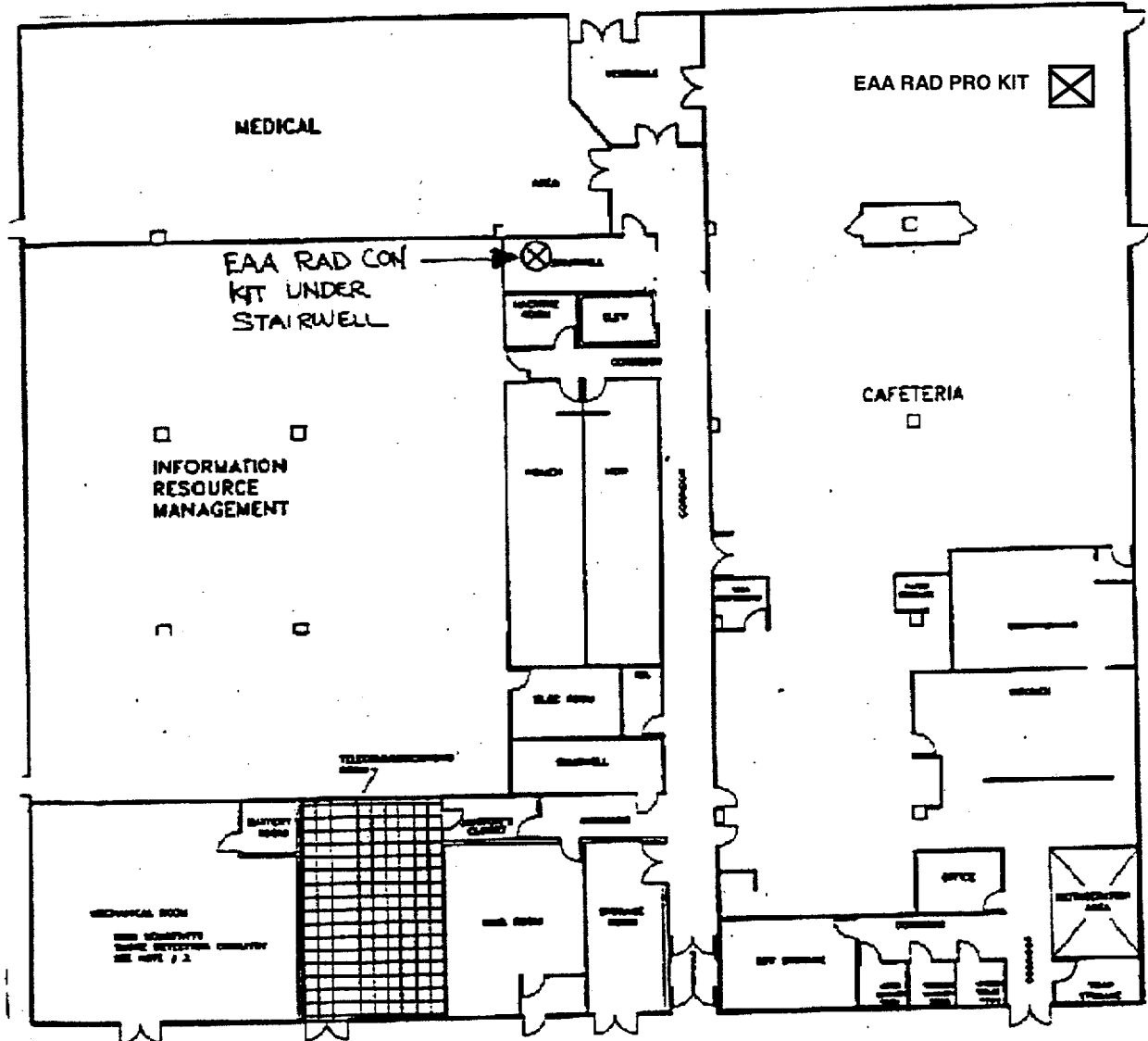
Revision No.

9EXHIBIT 3**EMERGENCY ASSEMBLY AREA WAREHOUSE**

☆ - RAD COM LOCKER
AND
RAD COM CONTROL POINT

EXHIBIT 3A

EMERGENCY ASSEMBLY AREA OCAB



Title

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9EXHIBIT 4

EMERGENCY ASSEMBLY AREA COORDINATOR CHECKLIST

Time/Initials

_____/____

- 1.0 Ensure control at the Emergency Assembly Area by direct and overseeing the personnel accountability process at appropriate EAA.

NOTE

When using the Warehouse, ensure entry granted light registers for each individual keycard insertion. Malfunctions (i.e. Entry Denied) contact Security Shift Commander.

_____/____

- 2.0 Ensure Rad Pro Techs have been dispatched from the OSC to provide personnel monitoring.

_____/____

- 3.0 When using the Warehouse, if security computer accountability system fails collect/sort accountability cards and forward to appropriate gates ASAP. (i.e.; Blue - Main Gate, Orange - North Gate.)

_____/____

- 4.0 Take attendance by routing an attendance sheet/sign-in sheet around , ensuring everyone is signed in. This is to allow the organization to know who & what expertise is available. (For Drills - Safety training or other pertinent information will be provided to personnel in the EAA. Arrangements will be made prior to Drill Conduct.)

_____/____

- 5.0 If a Site Evacuation is declared, contact Security Shift Commander for further instructions utilizing the Station Security Line 80 or extension 4954.

Emergency Assembly Area Coordinator_____
Date

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Number
EPIP-OC-.44

Title THYROID BLOCKING		Revision No. 2
Applicability/Scope Applies to work at Oyster Creek	Usage Level 2	Responsible Department Emergency Preparedness
This document is within QA plan scope 50.59 Reviews Required	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Effective Date (07/11/01) 07/21/01

Prior Revision 1 incorporated the following Temporary Changes:

N/A

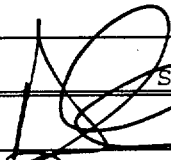
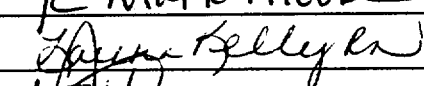
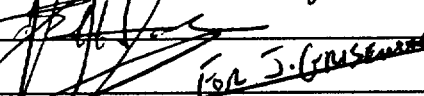
This Revision 2 incorporates the following Temporary Changes:

N/A

List of Pages (all pages rev'd to Rev. 2)

1.0 to 3.0
E1-1
E2-1
E3-1
E4-1

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	Signature	Concurring Organization Element	Date
Originator		EP Coord.	6/22/01
Concurred By	Mark Moore	Manager Radiation Protection	6/23/01
		Occupational Health Services Supv.	7.9.01
Approved By		Plant Manager	6/24/01
	For J. G. Rose	Manager Emergency Preparedness	7/9/01

Title	Revision No.
THYROID BLOCKING	2

1.0 PURPOSE

1.1 The purpose of this procedure is to provide guidance to site personnel for the administration of potassium iodide tablets as a thyroid blocking agent in the event of actual inhalation or ingestion by site personnel of large quantities of radioiodine.

2.0 APPLICABILITY/SCOPE

2.1 This procedure applies to all personnel involved in emergency or recovery related activities at Oyster Creek.

3.0 DEFINITIONS

3.1 Radioiodine - Any of the radioactive isotopes of iodine.

4.0 RESPONSIBILITIES

4.1 Radiological Assessment Coordinator (RAC) is responsible for completing Exhibit 1.

4.2 Medical Representative is responsible for completing Exhibits 2 and 3.

5.0 PROCEDURE

5.1 Implementation Criteria

5.1.1 This procedure is to be initiated upon verification by the RAC that person(s) have been exposed to quantities of radioiodine resulting in a thyroid committed dose equivalent (CDE) of greater than or equal to (25 REM).

6.0 REFERENCES

6.1 2000-PLN-1300.01 OCGS Emergency Plan

7.0 EXHIBITS

Exhibit 1 - Radiological Assessment Coordinator Checklist

Exhibit 2 - Medical Representative Checklist

Exhibit 3 - Thyroid Blocking Agent Administration Form

Exhibit 4 - Thyroid Blocking Agent Precautions

Title

THYROID BLOCKING

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EXHIBIT 1

Radiological Assessment Coordinator Checklist

Initials

- _____ 1.0 Determine if one or more individuals have received an uptake of radioiodine resulting in a thyroid committed dose equivalent (CDE) of greater than or equal to (25 REM). Consult with the Medical Representative on the benefits of administering stable iodine (KI).

NOTE

The Thyroid Dose to an individual may be determined as follows:

- A. Using an air sample, the thyroid dose is calculated as 25 mrem per DAC-hr.
- B. Having the individual get a whole body count if the whole body counter is available. The whole body counter software will calculate the thyroid dose.

NOTE

Potassium iodide is not to be used in lieu of proper respiratory protection (i.e., as a prophylactic). Potassium iodide is only to be used to block the thyroid gland shortly after accidental or unavoidable inhalation or ingestion of radioiodine.

- _____ 2.0 If the decision is to administer stable iodine, (KI) arrange for an escort to transport the exposed individual(s) to the Medical Representative's location, if needed.
- _____ 3.0 Arrange for a bioassay to be performed on each exposed individual of concern after issuance or refusal of the thyroid blocking agent.

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EXHIBIT 2

Medical Representative Checklist

Initials

- _____ 1.0 Upon the decision to administer stable iodine (KI), notify the OCGS Occupational Health. Medical Rep. Consult with Occupational Health or other medical authority, as appropriate, concerning the efficiency of potassium iodide usage in regards to duration of exposure, magnitude of exposure, and time since exposure for each individual.
- _____ 2.0 Upon assembling the exposed individual(s), direct the exposed individual(s) to read the thyroid blocking agent precaution leaflet (Exhibit 4) and sign the Thyroid Blocking Agent Administration Form (Exhibit 3). This signature verifies that the individual has read and understands the leaflet, understands that taking thyroid blocking agent is voluntary, and has no known allergy to Iodine. All exposed individuals will be offered thyroid blocking agent whether or not they refuse to sign Exhibit 3.
- _____ 3.0 Issue one sealed container of thyroid blocking agent (14 tablets potassium iodide) to each individual and instruct them to follow the label instructions. Label instructions may be altered only by a qualified Physician.

NOTE

Thyroid blocking agent is stored in the Occupational Health Services Dept.

- _____ 4.0 Verify by signature on Exhibit 3 that thyroid blocking agent was issued to the exposed individual or if refused, note the refusal on Exhibit 3 (if possible, record refusal reason on reverse side of form).
- _____ 5.0 Keep all completed Administration Forms (Exhibit 3) in the persons medical file.

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2EXHIBIT 3

THYROID BLOCKING AGENT ADMINISTRATION FORM

Name of Exposed Individual _____
Last First Middle

Social Security Number _____ - _____ - _____

Badge Number _____

TLD Number _____

Duration of Exposure _____ Hours

Iodine DAC Fraction _____

Estimated DAC-hrs _____ DAC-hrs

Estimated Thyroid Dose _____ mrem (i.e., DAC-hr x 25)

Date of Exposure _____

Time Exposure Ended _____

RWP Number (if applicable) _____

Respiratory Protection worn during Exposure _____

NOTE

Obtain exposure information from the Rad Con Coordinator.

NOTE

Although 10 CFR 20 allows up to 50 Rem per year, EPA and FDA guidance recommend considering the use of KI for acute exposures of 25 Rem or greater (CDE) to the adult thyroid in order to maintain exposures As Low As Reasonably Achievable.

I verify that I have read and understand the precaution leaflet and understand that taking thyroid blocking agent is voluntary. I also verify that I have no known allergy to Iodine. I accept/refuse (circle one) thyroid blocking agent.

*Signature of Exposed Individual / _____
Date

Potassium Iodide tablet issued by:

*Signature of Medical Representative / _____ / _____
Date TimeWhole Body Count Schedule at: _____
Time DateWhole Body Count Completed at: _____
Time Date Signature of WB Count Tech

*If the exposed individual refuses to sign but desires to take the thyroid blocking agent, issue the thyroid blocking agent and note the refusal to sign in the signature block.

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THYROID BLOCKING

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EXHIBIT 4

THYROID BLOCKING AGENT PRECAUTIONS

HOW POTASSIUM IODIDE WORKS

Certain forms of iodine help your thyroid gland work right. Most people get the iodine they need from foods, like iodized salt or fish. The thyroid can "store" or hold only a certain amount of iodine.

In a radiation emergency, radioactive iodine may be released in the air. This material may be breathed or swallowed. It may enter the thyroid gland and damage it. The damage would probably not show itself for years. Children are most likely to have thyroid damage.

If you take potassium iodide, it will fill-up your thyroid gland with non-radioactive iodine. This reduces the chance that radioactive iodine will enter the thyroid gland.

WHO SHOULD NOT TAKE POTASSIUM IODIDE

The only people who should not take potassium iodide are people who know they are allergic to iodide. You may take potassium iodide even if you are taking medicines for a thyroid problem (for example, a thyroid hormone or anti-thyroid drug). Pregnant and nursing women and babies and children may also take this drug.

HOW AND WHEN TO TAKE POTASSIUM IODIDE

Potassium Iodide should be taken as soon as possible after medical personnel tell you. You should take one dose every 24 hours. More will not help you because the thyroid can "hold" only limited amounts of iodine. Larger doses will increase the risk of side effects. You will probably be told not to take the drug for more than 10 days.

SIDE EFFECTS

Usually, side effects of potassium iodide happen when people take high doses for a long time. You should be careful not to take more than the recommended dose or take it for longer than you are told. Side effects are unlikely because of the low drug dose and the short time you will be taking the drug.

Possible side effects include skin rashes, swelling of the salivary glands, and "iodism" (metallic taste, burning mouth and throat, sore teeth and gums, symptoms of a head cold, and sometimes stomach upset and diarrhea).

A few people could have an allergic reaction with more serious symptoms. These could be fever and joint pains, or swelling of parts of the face and body at times severe shortness of breath