



**Northeast
Nuclear Energy**

Rope Ferry Rd. (Route 156), Waterford, CT 06385

Millstone Nuclear Power Station
Northeast Nuclear Energy Company
P.O. Box 128
Waterford, CT 06385-0128
(860) 447-1791
Fax (860) 444-4277

The Northeast Utilities System

DEC 21 1999

Docket Nos. 50-245

50-336

50-423

B17947

Re: 10 CFR 50, Appendix E
10 CFR 50.47(b)(5)

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

Millstone Nuclear Power Station, Unit Nos. 1, 2, and 3
Revised Emergency Plan Procedures

The purpose of this letter is to inform the Nuclear Regulatory Commission (NRC) Staff that the following procedures were implemented on December 16, 1999:

- Emergency Plan Implementing Procedure (EPIP) 4400, Revision 7, "Event Assessment, Classification, and Reportability"
- EPIP 4400A, Revision 0, "Non-Emergency Station Events"
- Emergency Plan Operating Procedure (EPOP) 4411, Revision 5, "Director of Station Emergency Operations"
- EPIP 4404, Revision 5, "Notifications and Communications"
- EPOP 4475, Revision 3, Change 1, "Manager of Resources"
- Common Operating Procedure (C-OP) 606, Revision 3, "Communications - Radiopaging and Callback Monthly Operability Test"
- Emergency Preparedness Administrative Procedure 1.15, Revision 5, "Management Program for Maintaining Emergency Preparedness"
- C-OP 608, Revision 2, "Communications - Radiopaging and ENRS Daily and Weekly Operability Tests"

Copies of these procedures are included for your records as Attachments 1 through 8.

A045 1/1

DDE ASOCE 05000 245

There are no commitments contained within this letter.

If you have any additional questions concerning this submittal, please contact Mr. David A. Smith at (860) 437-5840.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY



Raymond P. Necci
Vice President - Nuclear Oversight and
Regulatory Affairs

Attachments (8)

cc: H. J. Miller, Region I Administrator (2)
M. C. Modes, Chief, Emergency Preparedness and Safeguards Branch
L. L. Wheeler, NRC Project Manager, Millstone Unit No. 1
D. P. Beaulieu, Senior Resident Inspector, Millstone Unit No. 2
R. B. Eaton, NRC Senior Project Manager, Millstone Unit No. 2
A. C. Cerne, Senior Resident Inspector, Millstone Unit No. 3
J. A. Nakoski, NRC Senior Project Manager, Millstone Unit No. 3
P. C. Cataldo, NRC Inspector

Docket Nos. 50-245
50-336
50-423
B17947

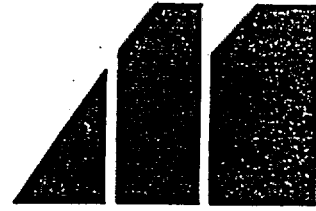
Attachment 1

Millstone Nuclear Power Station, Unit Nos. 1, 2, and 3

Emergency Plan Implementing Procedure (EPIP) 4400, Revision 7
Event Assessment, Classification, and Reportability

December 1999

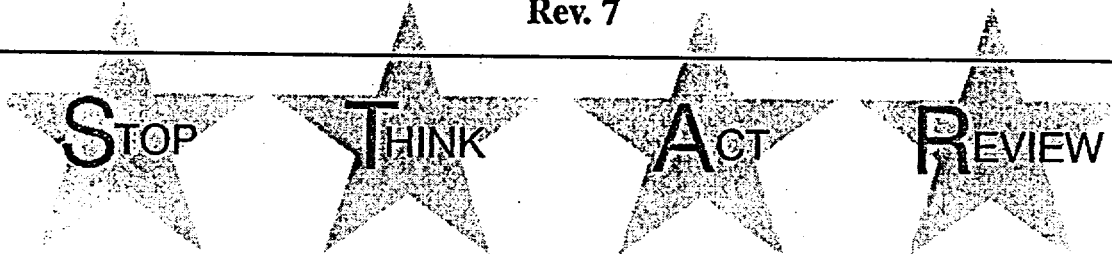
MILLSTONE NUCLEAR POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE



Event Assessment, Classification, and
Reportability

EPIP 4400

Rev. 7



Approval Date: 9-10-99

Effective Date: 12/16/99

Level of Use
Continuous

**Millstone All Units
Emergency Plan Implementing Procedure**

Event Assessment, Classification, and Reportability

TABLE OF CONTENTS

1.	PURPOSE	2
2.	PREREQUISITES	2
3.	PRECAUTIONS	4
4.	INSTRUCTIONS	5
4.1	Initial Event Classification	5
4.2	Event Classification Based on Emergency Action Level Tables	6
4.3	Actions Performed for Loss of Off-Site Power (LOP) or Loss of Coolant Accident (LOCA)	8
5.	REVIEW AND SIGNOFF	10
6.	REFERENCES	10
7.	SUMMARY OF CHANGES	11
ATTACHMENTS AND FORMS		
	Attachment 1, "State and Local Protective Action Recommendations Table"	12
	Attachment 2, "OU1 - Determination Criteria"	13
	EPIP Form 4400-1, "Millstone Unit 1 Emergency Action Levels"	
	EPIP Form 4400-2, "Millstone Unit 2 Emergency Action Levels"	
	EPIP Form 4400-3, "Millstone Unit 3 Emergency Action Levels"	

**Level of Use
Continuous**

STOP

THINK

ACT

REVIEW

**EPIP 4400
Rev. 7
1 of 14**

1. PURPOSE

1.1 Objective

Provide a method for the SM/CR DSEO and ADTS for a timely and accurate means of identifying, assessing, and determining the reportability of initial or escalating emergency conditions. --

1.2 Discussion

The Station Emergency Response Organization (SERO) is activated at an Alert, State Posture Code Charlie–One or higher classification. If the event is classified as an Unusual Event, State Posture Code Delta–One or Delta–Two, activation of the SERO is not required, however, SERO members will be notified of the emergency conditions.

Regulations require that notification to the DEP Monitoring and Radiation Control Division and Local Officials shall be accomplished within 15 minutes of an emergency event classification, e.g., Unusual Event and above.

NRC regulations require the licensee to notify the NRC immediately after notification to the State DEP Monitoring and Radiation Control Division and not later than one hour after declaration of an emergency classification.

2. PREREQUISITES

2.1 General

N/A

2.2 Documents

2.2.1 EPIP Form 4400–1, “Millstone Unit 1 Emergency Action Levels”

2.2.2 EPIP Form 4400–2, “Millstone Unit 2 Emergency Action Levels”

2.2.3 EPIP Form 4400–3, “Millstone Unit 3 Emergency Action Levels”

2.2.4 EPIP 4404, “Notification and Communications”

2.2.5 EPOP 4411, “Director of Station Emergency Operations”

Level of Use
Continuous

STOP

THINK

ACT

REVIEW

EPIP 4400

Rev. 7

2 of 14

2.3 Definitions

- 2.3.1 EAL – Emergency Action Level
- 2.3.2 Barrier Failure Reference Table – A list of symptoms defining the loss or potential loss of a barrier (i.e., containment, fuel cladding, etc.). A combination of barrier failure losses that determines the emergency classification as defined in the EAL Tables.
- 2.3.3 Event – An actual occurrence (e.g., failure of a structure, system, or component).
- 2.3.4 Event Category – A generic group of plant conditions categorized on the EAL Tables (i.e., Loss of Power, Equipment Failure, Radiation Hazard, etc.).
- 2.3.5 Initiating Condition – One of a predetermined subset of nuclear power plant conditions where either the potential exists for a radiological emergency or such an emergency has occurred.
- 2.3.6 MRDA – Manager of Radiological Dose Assessment (SERO on-call position comprised of chemistry personnel)
- 2.3.7 Prompt notification – The official notification to the State DEP Monitoring and Radiation Control Division and Local Officials and Agencies within 15 minutes, and notification to the NRC immediately after notification to the State DEP and not later than one hour after declaration of an emergency classification.
- 2.3.8 SERO – Station Emergency Response Organization
- 2.3.9 Significant Transient – Includes response to automatic or manually initiated functions such as scrams, runbacks involving greater than 25% thermal power change, ECCS injections, or thermal power oscillations of 10% or greater.

2.3.10 Transient – A condition that is:

- Beyond the expected steady–state fluctuations in temperature, pressure, power level, or water level, and
- Beyond the normal manipulations of the Control Room operating crew, and
- Expected to require actuation of fast–acting automatic control or protection systems to bring the reactor to a new safe, steady–state condition.

3. PRECAUTIONS

- 3.1 The potential for an event to escalate to a higher event classification must always be considered when evaluating emergency plant conditions.
- 3.2 From the identification of the initiating event, Operations has 15 minutes to further assess plant conditions. EOPs may require actions to be taken to mitigate an event or perform diagnostics prior to classification. This diagnosis of the event is an assessment tool. After the event has been classified, regulations require notification of off–site authorities within 15 minutes for emergency events classified on the EAL tables (Unusual Event or higher classification).
- 3.3 The Shift Manager, acting as the CR DSEO, has full authority and responsibility to classify an emergency event, without further discussion, especially if such discussion would jeopardize notification within 15 minutes of the time conditions warranting classification are known. If the classification is subsequently found to be too conservative, it can be downgraded and terminated in a followup message.

Level of Use
Continuous

STOP

THINK

ACT

REVIEW

EPIP 4400

Rev. 7

4 of 14

4. INSTRUCTIONS

4.1 Initial Event Classification

SM

- 4.1.1 **IF** sufficient cause exists for classifying an emergency event, **PERFORM** the following:
- a. **ANALYZE** available information and **DEVELOP** a general understanding of events in progress.
 - b. **ASSIGN** staff to collect and track information.
 - c. **IF** necessary, **REQUEST** assistance from any of the following, as applicable, to classify and respond to event:
 - Other units
 - STA
 - Security Shift Supervisor
 - Operations Manager
 - Duty Officer
 - Regulatory Affairs
 - Unit Chemistry Supervision
 - On-shift Chemistry Technician
 - On-shift Health Physics Technician
 - Unit Environmental Coordinator
 - Site Fire Protection
 - d. **IF** sufficient information is *not* available, **NOTIFY** individuals associated with event and **OBTAIN** additional information.
 - e. **IF** event is addressed by a unit event based **Emergency Action Level** table, **Go To** Section 4.2.
- 4.1.2 **IF** event has been evaluated **AND** is *not* addressed by a unit **Emergency Action Level** table, **Go To** EPIP 4400A, "Non-Emergency Station Events."
- 4.1.3 **IF** event has been classified as an **Unusual Event**, **TERMINATE** event once conditions cease to meet the **EAL** threshold.
- 4.1.4 **IF** other conditions exist, **REPEAT** Section 4.1.

– End of Section 4.1 –

Level of Use
Continuous

STOP

THINK

ACT

REVIEW

EPIP 4400
Rev. 7
5 of 14

4.2 Event Classification Based on Emergency Action Level Tables

SM or ADTS →

4.2.1 Refer To and IMPLEMENT one of the following EAL tables for the affected unit:

- EPIP Form 4400-1, "Millstone Unit 1 Emergency Action Levels"
- EPIP Form 4400-2, "Millstone Unit 2 Emergency Action Levels"
- EPIP Form 4400-3, "Millstone Unit 3 Emergency Action Levels"

4.2.2 DETERMINE classification as follows:

- a. SEARCH EAL table column headings from left to right for applicable category column.
- b. IF applicable column is not found, REVIEW definitions from "CLASSIFICATION" column for applicability.
- c. READ applicable column from top to bottom for initiating condition that best matches current event or condition.
- d. READ classification for applicable row.
- e. READ remainder of table briefly for other possible classifications.
- f. IF two or more classified conditions exist, APPLY highest classification.
- g. Refer To Attachment 1, "State and Local Protective Action Recommendations Table," and REVIEW off-site response actions associated with state posture codes.

4.2.3 IF event is an Unplanned Radiological Release, Refer To Attachment 2, "OU1 - Determination Criteria," and REVIEW classification and reporting requirements.

4.2.4 DIRECT Shift Technician to refer to EPIP 4404, "Notifications and Communications," and perform notifications, as appropriate.

ADTS →

4.2.5 IF event is loss of off-site power or loss of coolant accident, Go To Section 4.3.

Level of Use
Continuous

STOP

THINK

ACT

REVIEW

EPIP 4400
Rev. 7
6 of 14

4.2.6 **IF** event is classified as Unusual Event or higher, Refer To EPOP 4411, "Director of Station Emergency Operations," and **PERFORM** applicable steps for the event in progress.

– End of Section 4.2 –

Level of Use
Continuous

STOP

THINK

ACT

REVIEW

EPIP 4400
Rev. 7
7 of 14

ADTS

4.3 Actions Performed for Loss of Off-Site Power (LOP) or Loss of Coolant Accident (LOCA)

NOTE

Actions for Loss of Off-Site Power or Loss of Coolant Accident are a design basis commitment for Unit 3. Similar requirements (unspecified) exist for Unit 1 and Unit 2.

- 4.3.1 REQUEST Technical Support Center staff provide AC load reduction recommendations within 24 hours of LOP or LOCA. [♣ Ref 6.1.9]

NOTE

Any vehicle delivering diesel fuel oil to the site for the purpose of filling the Millstone Unit 2 emergency diesel generator supply (day) tanks, must have a pump capacity of at least 10 gpm at 30 psig and adequate length of hose (100 ft.). The flame arrestor (vent) connection may be used to fill the supply (day) tanks. Steps should be taken to ensure the filling of the (day) tanks is performed in accordance with the Station Spill Prevention, Control and Countermeasures Plan, including the erection of a temporary berm around the delivery truck, and measures to prevent or contain tank overflow.

- 4.3.2 Within 4 hours of LOP or LOCA event, PERFORM the applicable action:

- **IF** Unit 1 and Unit 2, **EVALUATE** need to order emergency diesel generator or gas turbine fuel to extend on-site capacity and Go To Section 4.1, "Initial Event Classification."
- **IF** Unit 3, **PLACE** an order for emergency diesel generator fuel and **SPECIFY** delivery is required within 24 hours.

Level of Use
Continuous

STOP

THINK

ACT

REVIEW

EPIP 4400

Rev. 7

8 of 14

4.3.3 **IF** fuel oil can *not* be delivered within the specified time, **PERFORM** the applicable action:

- a. Refer To affected unit procedures and **EVALUATE** load reduction alternatives.
- b. **PROVIDE** recommendations to MCRO. --
- c. Go To Section 4.1, "Initial Event Classification."

– End of Section 4.3 –

Level of Use
Continuous

STOP

THINK

ACT

REVIEW

EPIP 4400

Rev. 7

9 of 14

5. REVIEW AND SIGNOFF

N/A

6. REFERENCES

6.1 Developmental Documents

- 6.1.1 Code of Federal Regulations Title 10 Part 50; Appendix E, "Emergency Planning and Preparedness for Production and Utilization Facilities"
- 6.1.2 Code of Federal Regulations Title 10 Part 50.72; "Immediate Notification Requirements for Operating Nuclear Power Reactors"
- 6.1.3 "Final Safety Analysis Report Unit 1," Appendix G
- 6.1.4 "Final Safety Analysis Report Unit 2," Appendix 12A
- 6.1.5 "Final Safety Analysis Report Unit 3," Section 13.3 and Section 9.5.4
- 6.1.6 "Millstone Nuclear Power Station Emergency Plan"
- 6.1.7 NUREG-0654, "Criteria for Preparation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants"
- 6.1.8 NUREG-0737, "Clarification of TMI Action Plan Requirements, Supplement 1, Requirements for Emergency Response Capability"
- 6.1.9 J. F. Opeka letter to the US NRC, "Millstone Unit 3 Request for Additional Information, Proposed Revision to Technical Specifications, Emergency Diesel Generator Fuel Oil Storage Capacity"

6.2 Supporting Documents

- 6.2.1 EPIP Form 4400-1, "Millstone Unit 1 Emergency Action Levels"
- 6.2.2 EPIP Form 4400-2, "Millstone Unit 2 Emergency Action Levels"
- 6.2.3 EPIP Form 4400-3, "Millstone Unit 3 Emergency Action Levels"

Level of Use
Continuous

STOP

THINK

ACT

REVIEW

EPIP 4400

Rev. 7

10 of 14

6.2.4 EPIP 4404, "Notification and Communications"

6.2.5 EPOP 4411, "Director of Station Emergency Operations"

7. SUMMARY OF CHANGES

7.1 Incorporated previously SORC approved change 1 to revision 6.

7.2 Removed all material pertaining to the assessment, classification, and reportability of non-emergency events. The material now contained in this procedure is applicable to Unusual Event or higher event classifications.

Developed new procedure EPIP 4400A, "Non-Emergency Station Events," to incorporate non-emergency events previously addressed in this procedure.

7.3 Modified Discussion step 1.2 to clarify that if an event is classified as an Unusual Event, State Posture Code Delta-One or Delta-Two, activation of the SERO is not required, however, SERO members will be notified of the emergency conditions.

7.4 Added the on-shift Health Physics Technician to the listing of personnel in step 4.1.1 to assist, as applicable, in classifying and responding to an event.

7.5 Added step 4.1.2 to go to EPIP 4400A, "Non-emergency Station Events," if an event has been evaluated and is not addressed by a unit Emergency Action Level table.

7.6 Added step 4.1.4 to repeat Section 4.1 if other conditions exist.

7.7 Added step 4.2.2.g to refer to Attachment 1, "State and Local Protective Action Recommendations Table," and REVIEW off-site response actions associated with state posture codes.

7.8 Added step 4.2.3 to refer to Attachment 2, "OU1 - Determination Criteria," if an event is an unplanned radiological release, and review classification and reportability requirements.

7.9 Modified step 4.2.6 for the SM to refer to EPOP 4411, Director of Station Emergency Operations if event is classified as an Unusual Event or higher and perform applicable steps for the event in progress.

7.10 Added reference in Attachment 2, "OU1 - Determination Criteria," to the 1/1/92 version of 10CFR 20 for radiological effluents.

Level of Use
Continuous

STOP

THINK

ACT

REVIEW

EPIP 4400

Rev. 7

11 of 14

Attachment 1
State and Local Protective Action Recommendations Table
(Sheet 1 of 1)

CLASSIFICATION OF RADIOLOGICAL INCIDENTS AND POSTURE CODES		
INCIDENT CLASS	POSTURE CODE	INCIDENT DESCRIPTION AND POSTURE CODE ACTIONS*
1 NOTIFICATION OF UNUSUAL EVENT (Least Serious)	Delta 1	Unusual occurrence. No unplanned release of radioactivity. ACTIONS: No public protective actions required.
	Delta 2	Unusual occurrence with unplanned release of minute amounts of radioactivity. ACTIONS: No public protective actions required. Possible standby for key staff.
2 ALERT	Charlie 1	Actual or potential release of small amounts of radioactivity. ACTIONS: Standby for key staff. If appropriate, activate emergency staff/EOC, and monitor food/water/milk. Bring EBS to standby status.
3 SITE AREA EMERGENCY	Charlie 2	Actual or potential release of small amounts of radioactivity. ACTIONS: Activate emergency staff/EOC. Monitor food/water/milk. Consider placing milk animals on stored feed. Alert EBS and public warning, as appropriate.
4 GENERAL EMERGENCY (Most Serious)	Bravo	Events with a potential delayed release of relatively large amounts of radioactivity such as station blackout or loss of Control Room security. ACTIONS: Activate emergency staff/EOC. If not constrained, implement evacuation in an approximate 2 mile radius. If constrained, implement take shelter in an approximate 2 mile radius. Assess need to extend distance. Alert EBS and public warning, as appropriate. If appropriate, control food/water/milk.
	Alpha	Actual or potential release of large amounts of radioactivity. Actual or potential breach in containment. ACTIONS: Activate emergency staff/EOC. If not constrained, implement evacuation in an approximate 5 mile radius and, if necessary, take shelter in an approximate 5 to 10 mile radius. Assess need for additional evacuation. If constrained, take shelter in an approximate 10 mile radius. Alert EBS. Activate EBS and public warning, as appropriate. Control food/water/milk.
* The Incident Class defines seriousness with regard to public safety. The Posture Code guides off-site response actions. The above listed actions for state and local officials summarize major public protection for each Posture Code.		

Level of Use
Continuous

STOP THINK ACT REVIEW

EPIP 4400
Rev. 7
12 of 14

Attachment 2
OUI – Determination Criteria
(Sheet 1 of 2)

NRC AND STATE INCIDENT CLASSIFICATION SCHEME

Reportable Event Description	NRC Classification Requirements	NRC Reporting Requirement	State Posture Code	State Reporting Requirement (DEP Monitoring and Radiation Control Division)	Notes (Sheet 2)	CR/LER Category
<p>Any airborne radioactive release that, when averaged over a period of 1 hour, results in concentrations in unrestricted area that exceed 2 times the applicable concentration limits specified in Appendix B, part 20.1–20.601 Table II, Column 1.</p> <p>Refer to part 20 for implementing the provisions of part 20.1001 – 20.2401 of this chapter, 2 times the applicable concentration specified in Appendix B, part 20.1001 – 20.2401, Table 2, Column 1, of part 20 of this chapter. (See Note 2)</p>	<p>UNUSUAL EVENT 10CFR50.72(b)(2)(iv)(A) Non-emergency event 4 hour report, being reported within 1 hour due to State Reg.</p>	<p>Within 1 hour via ENS 10CFR50, App. E 10CFR50.72(b)(2)</p>	<p>D-2</p>	<p>Within 15 minutes State Reg. 22a-135-1</p>	<p>NOTE 1, 2</p>	<p>As Appropriate Refer to NU Reporting Guide</p>
<p>Any liquid effluent release that when averaged over a time of 1 hour, exceeds 2 times the applicable concentration specified in Appendix B to part 20, Table 2, Column 2, at the point of entry into the receiving waters (i.e., unrestricted area) for all radionuclides except tritium and dissolved noble gases. (Immediate notification made under this paragraph also satisfy the requirements of §20.403 of this chapter. (See Note 2)</p>	<p>UNUSUAL EVENT 10CFR50.72(b)(2)(iv)(B) Non-emergency event 4 hour report, being reported within 1 hour due to State Reg.</p>	<p>Within 1 hour via ENS 10CFR50, App. E 10CFR50.72(b)(2)</p>	<p>D-2</p>	<p>Within 15 minutes State Reg. 22a-135-1</p>	<p>NOTE 1, 2</p>	<p>As Appropriate Refer to NU Reporting Guide</p>

Level of Use
Continuous

STOP THINK ACT REVIEW

EPIP 4400
Rev. 7
13 of 14

Attachment 2
OUI – Determination Criteria
(Sheet 2 of 2)

NOTES

- NOTE 1** Follow-up notification. Telephone notifications made for non-emergency one (1) and four (4) hour events will require follow-up notifications in addition to the initial notification during the course of the event as follows:
- a. **Immediate Report:**
 - (i) Any further degradation in the level of safety of the plant or other worsening plant conditions, including those that required the declaration of any of the Emergency Classes, if such a declaration has not been previously made, or
 - (ii) Any change from one Emergency Class to another, or
 - (iii) A termination of the emergency classification.
 - b. **Immediate Report:**
 - (i) The result of engineering evaluations or assessments of plant conditions
 - (ii) The effectiveness of response or protective measures taken, and
 - (iii) Information related to plant behavior that is not understood.
 - c. NRC may request an open, continuous communication channel with the NRC Operations Center.
- NOTE 2** NU is using the 1/1/92 version of 10CFR20 for radiological effluents. (Per Technical Specifications)

Level of Use
Continuous

STOP THINK ACT REVIEW

EPIP 4400
Rev. 7
14 of 14

Docket Nos. 50-245

50-336

50-423

B17947

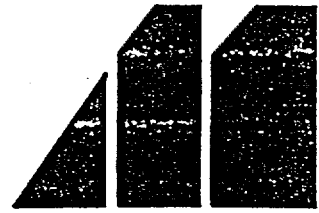
Attachment 2

Millstone Nuclear Power Station, Unit Nos. 1, 2, and 3

Emergency Plan Implementing Procedure 4400A, Revision 0
Non-Emergency Station Events

December 1999

MILLSTONE NUCLEAR POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE



STOP

THINK

ACT

REVIEW

Non – Emergency Station Events

EPIP 4400A

Rev. 0

Approval Date: 9-10-99

Effective Date: 12/16/99

Level of Use
General

**Millstone All Units
Emergency Plan Implementing Procedure**

Non – Emergency Station Events

TABLE OF CONTENTS

1. PURPOSE 3

2. PREREQUISITES 4

3. PRECAUTIONS 7

4. INSTRUCTIONS 8

 4.1 Initial Event Reportability Determination 8

 4.2 Evaluation of an Unplanned Radioactive Release 10

 4.3 Evaluation of Oil Spills 11

 4.4 Evaluation of a Chemical, Sewage, or Hazardous Material (Not Oil) Release (Spill) 12

 4.5 Evaluation of an NPDES Reportable Event 14

 4.6 Initial Notification Actions 15

 4.7 Radiopager Notifications 16

 4.8 NRC Notification 19

 4.9 Callback Verification 20

 4.10 Additional Notifications 22

 4.11 Subsequent Actions 23

 4.12 System Restoration and Administrative Actions 24

 4.13 ENRS Failure 26

 4.14 ENS Failure 27

5. REVIEW AND SIGNOFF 29

6. REFERENCES 29

7. SUMMARY OF CHANGES 31

ATTACHMENTS AND FORMS

Attachment 1, "Reportable Events" 35

Attachment 2, "Report of Petroleum or Chemical Product Discharge, Spillage, Seepage, Filtration or Sewage Discharge to Environment" 55

Attachment 3, "Radiological Releases" 56

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
1 of 99

TABLE OF CONTENTS

Attachment 4, "Reportable Quantity (RQ) of Hazardous Substances" . . .	68
Attachment 5, "Release Exceeding Reportable Quantity Community Right-to-Know (SARA) Report Form"	75
Attachment 6, "Definition of Engineered Safety Feature Systems"	76
Attachment 7, "Non-Emergency Report Form (NERF)"	77
Attachment 8, "Utility, State, NRC Callback Verification Checklist"	78
Attachment 9, "NRC Event Notification Form"	79
Attachment 10, "Alternate FAX Notifications Telephone Numbers"	81
Attachment 11, "Additional Notifications Checklist"	82
Attachment 12, "Non-Emergency Report Form (Significant Fitness for Duty Event)"	91
Attachment 13, "Significant Fitness for Duty Event Notification"	92
Attachment 14, "Incident Description Examples"	93
Attachment 15, "Preparing and Transmitting a Non-Emergency Report Form (NERF)"	94
Attachment 16 "Switching Telephone Lines"	99

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

2 of 99

1. PURPOSE

1.1 Objective

Provide instructions for identifying, assessing, and determining the reportability of non-emergency station events.

Provide guidance to the Shift Technician, or other qualified ENRS operator for prompt notifications of non-emergency reportable events.

1.2 Discussion

The Shift Manager will make the initial reportability determination using Attachment 1, "Reportable Events." Other individuals may provide recommendations on reportability using RAC 05, "10CFR50.72 Notification, 10CFR50.73, and 10CFR50.9(b) Reportability Determinations, and Licensee Event Reports," to support the Unit Director or Designee in making the final determinations.

This procedure ensures timely completion of the following, in descending order of priority:

- Notification of State Agencies
- Notification of NRC
- Performance of additional notifications
- Performance of administrative actions

Reporting time limits for NRC and State Posture Code non-emergency events are as follows:

- The DEP Monitoring and Radiation Control Division requires notification for Golf, Fox, and Echo events which are performed using Attachment 1, "Reportable Events." Notification time requirements are specified by each reportable event listed in Attachment 1.
- Reporting times for environmental events, some of which are not reportable to NRC, are also listed in Attachment 1.

The initial Non-Emergency Report Form (NERF) is processed with the "Additional Information" (incident description) section being filled in and recorded. If the circumstances or conditions which caused the report have been corrected, the "A further report will not be given" block shall be checked.

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
3 of 99

2. PREREQUISITES

2.1 General

- 2.1.1 The event is not addressed by the Emergency Action Level Tables.
- 2.1.2 The event is reportable using Attachment 1.

2.2 Documents

- 2.2.1 COP 200.5, "Oil, Hazardous Material, Hazardous Waste, and Mixed Waste Contingency Plan"
- 2.2.2 RAC 05, "10CFR50.72 Notification, 10CFR50.73, and 10CFR50.9(b) Reportability Determinations, and Licensee Event Reports"
- 2.2.3 EPUG 08B, " Millstone Emergency Plan Resource Book"

2.3 Definitions

- 2.3.1 Affected unit – Any unit which is directly affected by an event.
- 2.3.2 CV – Callback Verification (i.e., individuals in group)
- 2.3.3 DOUBLE CLICK – To click twice
- 2.3.4 Incident description – "Additional Information" section of the Non-Emergency Report Form (NERF) providing a simple description of the event.
- 2.3.5 Immediate notification – Notification to the NRC of non-emergency events.
- 2.3.6 Initial report – The first notification to State and Local Officials and Agencies, the NRC, and applicable personnel that reports a non-emergency reportable event.

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

4 of 99

- 2.3.7 **Lead unit** – The unit which assumes classification responsibilities for reportable events. The lead unit may be any of the following:
- In unit specific events, the affected unit.
 - For non–unit specific events (i.e., station security, hurricane, earthquake, fitness for duty, etc.), Unit 1 is the lead unit, unless otherwise designated.
 - In situations involving multiple events, the unit experiencing the most severe event has the lead.
 - A non–affected unit may be requested to assume the lead by the affected unit (e.g., loss of control room habitability).
- 2.3.8 **Leaking Underground Storage Tank** – A tank confirmed (through excavation, vendor precision testing, or positively identified by other indications, i.e., unaccountable actual tank level decrease with associated confirmatory evidence) to be leaking a petroleum product into the ground.
- 2.3.9 **MINIMIZE** – To reduce in size
- 2.3.10 **MRDA** – Manager of Radiological Dose Assessment (SERO on–call position comprised of chemistry personnel)
- 2.3.11 **NERF** – Non–Emergency Event Report Form
- 2.3.12 **Notification time** – The time the NERF message is released (reported on).
- 2.3.13 **NPDES** – National Pollutant Discharge Elimination System. Regulations and water discharge permits required by the Clean Water Act.
- 2.3.14 **Oil Spills to Receiving Water** – Oil spills originating from the station that produce a visible sheen on receiving water. Oil sheens produced after rainstorms from normal and routine operations are not considered spill events. (Reportable to the NRC)
- 2.3.15 **Receiving Water or Water Body** – The quarry, Long Island Sound, or a yard drain that will discharge to the quarry or Long Island Sound.

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A

Rev. 0

5 of 99

2.3.16 Reportable Quantity (RQ) – The quantity of chemical, sewage, or hazardous material, which when released to the environment within a 24 hour period, impacts reportability. The NURQ is the threshold quantity above which a spill to a land surface must be reported to State Agencies. Spills above the Federal RQ require additional notifications to the Waterford Dispatch and National Response Center under “Community Right to Know” notifications. Spills to water have no RQs, i.e., any amount released may trigger reportability.

2.3.17 Reportable Release (Spill) of Chemical, Sewage, or Hazardous Material (Not Oil) – The following criteria defines when a spill of a chemical or hazardous material is reportable under spill reporting regulations:

- The spilled material is sewage and the release has or will reach receiving water. (Not reportable to the NRC)
- Any release of hazardous material, which has, or will reach receiving water, and the discharge is not permitted by the station's NPDES permit, emergency authorizations, or temporary authorizations. (Not reportable to the NRC when less than the Federal RQ)
- A quantity of hazardous material greater than the NURQ but less than the Federal RQ (listed in Attachment 4, “Reportable Quantity (RQ) of Hazardous Substances”) is released on company property, i.e., a land surface, in plant secondary containment dike, etc. or to the environment. (Not reportable to the NRC when less than the Federal RQ)
- Spill quantities greater than the Federal RQ require that additional agencies are notified as listed in Attachment 11, “Additional Notifications Checklist.” (Reportable to the NRC)

2.3.18 SARA Notification – Notification to the local community when a chemical is spilled to the environment in a quantity which exceeds its Federal RQ. Notification requires communities to determine if local evacuation is required.

3. PRECAUTIONS

- 3.1 Attachment 12, "Non-Emergency Report Form (Significant Fitness for Duty Event)," is provided for use when reporting a significant fitness for duty event.
- 3.2 Attachment 14, "Incident Description Examples," should be consulted prior to completing the "Additional Information" section of the Non-Emergency Report form.

The Non-Emergency Report Form should include the following:

- Incident description example, as applicable
 - Concise wording
 - No abbreviations
 - Non-technical language
- 3.3 If a pager, telephone, or telephone number does not function as expected, the following alternate resources should be used, and the malfunction corrected at a later time:
 - Tri-Town Radio
 - Alternate phone lines (trunk, cellular)
 - Alternate phone listings
 - 3.4 Environmental reports must be made to outside agencies within the time limits specified in Attachment 1.
 - 3.5 Failure to select the correct scenario may result in unwarranted activation or the release of incorrect information.

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

7 of 99

4. INSTRUCTIONS

4.1 Initial Event Reportability Determination

SM or
Designee

- 4.1.1 **IF** sufficient cause exists for reporting a non-emergency event, **PERFORM** the following:
- a. **DIRECT** Shift Technician to go to Section 4.6 and perform notifications associated with Attachment 1, "Reportable Events," as applicable.
 - b. **ANALYZE** available information and **DEVELOP** a general understanding of event in progress.
 - c. **ASSIGN** staff to collect and track information.
 - d. **IF** necessary, **REQUEST** assistance from any of the following, as applicable, to determine reportability and respond to event:
 - Unit Chemistry Supervision or on-call MRDA
 - Unit Environmental Coordinator or on-call Environmental Coordinator
 - On-shift Chemistry Technician
 - On-Shift Health Physics Technician
 - Security Shift Supervisor
 - Site Fire Protection
 - Regulatory Affairs

NOTE

Certain environmental events, including those *not* reportable to the NRC, have reportable time limits listed in Attachment 1, "Reportable Events."

- e. **IF** event is an unplanned radioactive release, Go To Section 4.2.
- f. **IF** event is an oil spill, Go To Section 4.3.

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

8 of 99

- g. **IF** event is a chemical, sewage, or hazardous material (not oil) release (spill), Go To Section 4.4.
- h. **IF** event is an NPDES issue, Go To Section 4.5.
- i. **IF** other event, **PERFORM** the following: --
 - Refer To Attachment 1 and **DETERMINE** State and NRC reporting requirements.
 - **IF** applicable, Go to Section 4.8 and **PERFORM** NRC notifications.

– End of Section 4.1 –

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

9 of 99

4.2 Evaluation of an Unplanned Radioactive Release

SM or
Designee

4.2.1 IF an unplanned radioactive release has occurred, NOTIFY the following, as applicable, for assistance in determining reportability requirements:

- Unit Chemistry Supervision or on-call MRDA
- Unit Environmental Coordinator or on-call Environmental Coordinator
- Health Physics Supervision
- Regulatory Affairs

4.2.2 Refer To Attachment 3, Section 6, "Maintenance Operations," and REVIEW current plant operations to identify source of release.

4.2.3 Refer To Attachment 3, Section 2, "Reportable Releases," and REVIEW for type of release involved.

4.2.4 IF it is determined an unplanned release may exceed limits, Refer To Attachment 3, Section 3, "Release Calculations," and COMPLETE calculations listed for released material.

4.2.5 Refer To the following and DETERMINE if release exceeds limits:

- a. Attachment 3, Section 2, "Reportable Releases"
- b. Attachment 3, Section 4, "EPA Reportable Releases"

4.2.6 IF release exceeds limits, Refer To Attachment 1 and DETERMINE event reportability requirements.

4.2.7 DIRECT Shift Technician to go to Section 4.6 and perform notifications, as appropriate.

4.2.8 IF applicable, Go to Section 4.8 and PERFORM NRC notifications.

– End of Section 4.2 –

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

10 of 99

4.3 Evaluation of Oil Spills

SM or
Designee

4.3.1 IF an oil spill has occurred, NOTIFY the following, as applicable:

- Unit Chemistry Supervision or on-call MRDA
- Unit Environmental Coordinator or on-call Environmental Coordinator
- Health Physics Supervision
- Regulatory Affairs

4.3.2 Refer To and IMPLEMENT C OP 200.5, "Oil, Hazardous Waste, and Mixed Waste Contingency Plan," and DETERMINE if any of the following conditions are met:

- Spill into Long Island Sound or any receiving water that feeds into Long Island Sound has occurred
- Spill greater than 10 gallons on land has occurred
- Leaking underground storage tank is identified as source of event

4.3.3 IF any of the conditions listed in step 4.3.2 are met, PERFORM the following:

- a. Refer To and COMPLETE Attachment 2, "Report of Petroleum or Chemical Product Discharge, Spillage, Seepage, Filtration or Sewage Discharge to Environment."
- b. Refer To Attachment 1 and DETERMINE event reportability requirements.
- c. DIRECT Shift Technician to go to Section 4.6 and perform notifications, as appropriate.
- d. IF applicable, Go to Section 4.8 and PERFORM NRC notifications.

– End of Section 4.3 –

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
11 of 99

4.4 Evaluation of a Chemical, Sewage, or Hazardous Material (Not Oil) Release (Spill)

SM or Designee

4.4.1 **IF** a Chemical, Sewage, or Hazardous Material (Not Oil) Release (Spill) has occurred, NOTIFY the following, as applicable:

- Unit Chemistry Supervision or on-call MRDA
- Unit Environmental Coordinator or on-call Environmental Coordinator
- Health Physics Supervision
- Regulatory Affairs

4.4.2 ASSIGN individual to implement C OP 200.5, "Oil, Hazardous Material, Hazardous Waste, and Mixed Waste Contingency Plan."

4.4.3 Refer To Attachment 4, "Reportable Quantity (RQ) of Hazardous Substances," and DETERMINE the RQ of the substance released.

NOTE

If the release was to receiving water and is *not* permitted by the station's NPDES Permit or Connecticut Water Regulations, it is reportable regardless of the spilled quantity. The Unit Environmental Coordinator or on-call Environmental Coordinator can provide assistance in determining reportability. Spills to receiving water are reportable to both the DEP Oil and Chemical Spills Division and the DEP Bureau of Water Management. Reportable release (spills) are defined in step 2.3.17.

4.4.4 Refer To Attachment 1 and DETERMINE event reportability requirements.

4.4.5 **IF** a reportable release (spill) has occurred, Refer To and COMPLETE Attachment 2, "Report of Petroleum or Chemical Product Discharge, Spillage, Seepage, Filtration or Sewage Discharge to Environment."

- a. **IF** material spilled is to water or to a land surface **AND** the quantity is greater than the Federal RQ, Refer To and COMPLETE Attachment 5, "Release Exceeding Reportable Quantity Community Right-to-Know (SARA) Report Form."

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A

Rev. 0

12 of 99

- b. **DIRECT** Shift Technician to go to Section 4.6 and perform notifications, as appropriate.
- c. **IF** applicable, Go to Section 4.8 and **PERFORM** NRC notifications.

– End of Section 4.4 –

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

13 of 99

4.5 Evaluation of an NPDES Reportable Event

NOTE

1. The Unit Environmental Coordinator or on-call Environmental Coordinator will investigate NPDES issues and determine if they are reportable as one of the NPDES reportable events listed in Attachment 1.
2. The Manager Environmental Services-Nuclear or Designee will make the notification call to the DEP Bureau of Water Management and will notify the control room when the call will be made.
3. With the exception of reports required for bypassing treatment facilities, NPDES notifications are made to the DEP, Water Management Division, only on weekdays during normal business hours. For these cases, NPDES events that occur during off hours or on weekends are reported on the next normal business day.

4.5.1 WHEN informed of a potential NPDES issue, NOTIFY the unit Environmental Coordinator or on-call Environmental Coordinator, as necessary.

4.5.2 IF event is reportable, DIRECT Shift Technician to go to Section 4.6 and perform notifications, as appropriate.

- End of Section 4.5 -

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

14 of 99

NOTE

Duties of the Unit 3 Shift Technician may be delegated to another qualified ENRS Operator.

4.6 Initial Notification Actions

Shift
Technician

- 4.6.1 **IF** an environmental event has occurred, **AND** event is *not* reportable to the NRC and the State DEP Monitoring and Radiation Control Division, Go to step 4.10 and **SELECT** appropriate "additional notifications" from the listing of events "not reportable to the NRC and State DEP Monitoring and Radiation Control Division."
- 4.6.2 **IF** necessary, **PERFORM** ENRS log-on and **VERIFY** the following:
- a. ENRS screen is activated
 - b. NERF form is available
 - c. RapidReach icon is accessible
 - d. EasyView icon is accessible
- 4.6.3 **IF** ENRS is *not* operational, Refer To Section 4.13 and **NOTIFY** State and Local Agencies.

– End of Section 4.6 –

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
15 of 99

4.7 Radiopager Notifications

Shift
Technician

4.7.1 **IF** event is significant fitness for duty report, Refer To and **COMPLETE** the following:

- Attachment 12, “Non–Emergency Report Form (Significant Fitness for Duty Event)”
- Attachment 13, “Significant Fitness for Duty Event Notification”

4.7.2 **IF** event is *not* a significant fitness for duty report, Refer To and **COMPLETE** Attachment 7, “Non–Emergency Report Form (NERF),” as follows:

- a. **MARK** “A further report: Will not be given” box on Attachment 7.
- b. **COMPLETE** Attachment 7 including the following information:
 - Incident classification
 - Posture code
 - Classification time
 - “Additional Information”

4.7.3 **IF** additional instructions are necessary for developing a NERF, Refer To Attachment 15, “Preparing and Transmitting a Non–Emergency Report Form (NERF),” and **ENTER** NERF data into ENRS.

4.7.4 **IF** additional instructions are *not* necessary for developing a NERF, **ENTER** NERF data into ENRS, as follows:

- a. **OPEN** “RapidReach Primary” icon and **ENTER** information.
- b. **IF** “RapidReach Primary” icon is *not* operable, **PERFORM** the following:
 - 1) **SELECT** “RapidReach Secondary” icon and **ENTER** event information.

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
16 of 99

- 2) Refer To Attachment 16, "Switching Telephone Lines," and TRANSFER to telephone backup system.
 - c. IF both "RapidReach Primary" AND "RapidReach Secondary" are *not* operable PERFORM the following:
 - 1) SELECT "EasyView Remote" capability.
 - 2) Go To step 4.7.5.
 - d. OPEN "EasyView" icon and ENTER information.
 - e. OPEN "Form" icon and ENTER event information.
 - f. PRINT NERF and VERIFY correct.
 - g. RECORD audio message (entire NERF).
 - h. VERIFY audio message correct.
 - i. FILE NERF image for paging and fax purposes.
- 4.7.5 OBTAIN SM signature on written NERF.
- 4.7.6 IF additional instructions are necessary for transmitting a NERF, Refer To Attachment 15 and TRANSMIT NERF radiopager message.
- 4.7.7 IF additional instructions are *not* necessary for transmitting a NERF, TRANSMIT NERF radiopager message.
- 4.7.8 Refer To Attachment 7, Block 16, and ENTER time and date provided on the NERF.
- 4.7.9 SIGN the NERF.

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

17 of 99

NOTE

IF either of the following conditions exist, radiopager transmission has failed:

- The controlled console pager has *not* activated within approximately 2 minutes.
- No responders call in within approximately 2 minutes after release of the NERF radiopager message.

4.7.10 IF radiopager transmission has failed using "RapidReach," Refer To Section 4.13 and PERFORM alternate FAX notifications.

– End of Section 4.7 –

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

18 of 99

4.8 NRC Notification

NOTE

State of Connecticut posture codes (e.g., Echo) shall not be used when notifying the NRC of reportable events. [❖ Ref. 6.1.9]

SM or
Designee

- 4.8.1 Refer To Attachment 8, "Utility, State, NRC Callback Verification Checklist," Part I, and ATTEMPT to notify the NRC Resident Inspector using any of the following:
- NRC Resident Inspector's radiopager
 - Affected unit Resident Inspector's office or home telephone number
 - Non-affected unit Resident Inspector's office or home phone number
- 4.8.2 RECORD applicable information for event on Attachment 9, "NRC Event Notification Form."
- 4.8.3 Refer To and COMPLETE Attachment 8, Part II and PERFORM the following:
- a. NOTIFY NRC Operations Center via ENS of event.
 - b. PROVIDE information recorded on Attachment 9 to the NRC.
- 4.8.4 IF ENS is inoperative, Go To Section 4.14.
- 4.8.5 LOG NRC communications, as appropriate.

– End of Section 4.8 –

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
19 of 99

4.9 Callback Verification

Shift
Technician

- 4.9.1 MONITOR call-backs on ENRS screen.
- 4.9.2 IF the following have *not* called in, Refer To Attachment 8 and ATTEMPT callback verification within approximately 15 minutes after event message has been transmitted:
- State of Connecticut DEP Monitoring and Radiation Control Division
 - Waterford Dispatch
 - Nuclear News Manager
- 4.9.3 IF additional instructions are necessary for performing callback verification, Refer To Attachment 15 and PERFORM callback verification.
- 4.9.4 IF additional instructions are *not* necessary for performing callback verification, PERFORM callback verification.

NOTE

Callback verification via printed CV report can *not* be performed from a "client" server if the radiopager message was transmitted via "EasyView Remote." This information can be obtained from Bldg. 475 or EOF phone server only.

- 4.9.5 IF additional instructions are necessary for printing a Callback Verification (CV) report, Refer To Attachment 15 and PRINT CV report (i.e., individuals in group) to document callback responses.
- 4.9.6 IF additional instructions are *not* necessary for printing a CV report, PRINT CV report to document callback responses.
- 4.9.7 Refer To CV report or Attachment 8 and DOCUMENT non-responders.
- 4.9.8 Refer To Attachment 8 and PERFORM backup notification to each non-responder.

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
20 of 99

4.9.9 WHEN initial and backup notifications have been completed,
PRINT final ENRS CV report.

– End of Section 4.9 –

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A
Rev. 0
21 of 99

4.10 Additional Notifications

4.10.1 **IF** any of the following events occur, Refer To Attachment 11, "Additional Notifications Checklist," and PERFORM associated notifications:

- Theft or loss of licensed materials (Event 1)
- Radioactive materials transportation accident (Event 2)
- Transport of contaminated injured person (Event 3)
- Oil spill to receiving water (Event 4)
- Oil spill onto land surfaces greater than 10 gal. and no release to waterway (Event 5) – Not reportable to NRC and State DEP Monitoring and Radiation Control Division
- Oil leakage from underground storage tank (Event 6) – Not reportable to NRC and State DEP Monitoring and Radiation Control Division
- Chemical or hazardous material (not oil) release (spill) and quantity spilled exceeds Federal RQ (Event 7)
- Chemical, sewage, or hazardous material (not oil) release (spill) and quantity spilled is less than the Federal RQ (Event 8) – Not reportable to NRC and State DEP Monitoring and Radiation Control Division
- NPDES reportable events (Event 9) – Not reportable to NRC and State DEP Monitoring and Radiation Control Division
- Non-spill related environmental event i.e., fish kill or significant environmental event related to station operation (Event 10)
- Security event i.e., bomb threat (Event 11)
- Significant fitness for duty event (Event 12)
- Reportable Quantity (RQ) radioactive material release to the environment (Event 13)

– End of Section 4.10 –

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

22 of 99

4.11 Subsequent Actions

- 4.11.1 **IF** additional instructions are necessary for restoring the general default message, Refer To Attachment 15 and RESTORE ENRS default message.
- 4.11.2 **IF** additional instructions are *not* necessary for restoring the general default message, RESTORE ENRS general default message.
- 4.11.3 **WHEN** all existing events have been terminated **AND** callback verifications have been completed, PERFORM ENRS log-off.

– End of Section 4.11 –

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A
Rev. 0
23 of 99

4.12 System Restoration and Administrative Actions

Shift
Technician

4.12.1 **WHEN** SM terminates event, REVIEW NERF and VERIFY appropriate termination message has been issued.

4.12.2 ENSURE all CV reports are finalized.

4.12.3 OBTAIN original of the following documents for the affected unit control room:

- Attachment 7, "Non-Emergency Report Form (NERF)" and printed copy of the CV NERF
- Attachment 8, "Utility, State, NRC Callback Verification Checklist"
- Attachment 9, "NRC Event Notification Form"
- ENRS CV report printout
- Any other completed attachments

4.12.4 **IF** any of the following reportable spill events have occurred, SEND copies of the CR and Attachment 2, "Report of Petroleum or Chemical Product Discharge, Spillage, Seepage, Filtration, or Sewage Discharge to Environment," to the NNECO Manager Environmental Services-Nuclear:

- Oil spill
- Chemical or hazardous material release (spill)
- Sewage spill to receiving water

4.12.5 **IF** event involved a chemical OR hazardous material release where the quantity spilled exceeds the Federal RQ, PERFORM the following:

- a. Refer To and COMPLETE Attachment 5, "Release Exceeding Reportable Quantity Community Right to Know (SARA) Report Form."
- b. INDICATE if material was a hazardous or mixed waste.

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

24 of 99

c. SEND copies of Attachment 5 to the following, as applicable:

- NNECO Manager Environmental Services–Nuclear
- Unit Environmental Coordinator

d. NOTIFY NNECO Manager Environmental Services–Nuclear that a SARA Report may be required. (40CFR355.40(b)(3))

4.12.6 IF one of the following contingency plan is formally activated, NOTIFY NNECO Manager Environmental Services–Nuclear that a written report to the EPA Regional Administrator is required by 40 CFR 265.56 (i) and (j) within 15 days:

- Chemical
- Hazardous material
- Mixed waste

4.12.7 IF event is reportable under NPDES, NOTIFY NNECO Manager Environmental Services–Nuclear that a written report is required to the DEP Bureau of Water Management.

– End of Section 4.12 –

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

25 of 99

4.13 ENRS Failure

NOTE

1. This section is performed *only* when ENRS has failed or radiopager transmission was performed via "EasyView Remote."
2. A fax cover sheet is not required when distributing the NERF.

- 4.13.1 **IF** ENRS has failed, Refer To Attachment 10, "Alternate FAX Notifications Telephone Numbers," and DISTRIBUTE NERF via control room FAX machine.
- 4.13.2 Refer To Attachment 8, "Utility, State, NRC Callback Verification Checklist," and NOTIFY all "required call-in" radiopager holders.
- 4.13.3 Refer To EPUG-08B, (Att) "Outside Agencies Telephone Listings," and NOTIFY Information Technology Support Center of ENRS hardware failure.

- End of Section 4.13 -

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A
Rev. 0
26 of 99

4.14 ENS Failure

NOTE

1. This section is performed *only* when the dedicated ENS telephone lines have failed.
2. In an emergency, with loss of other communications, the state or local police may be contacted by radio and requested to place a call to the NRC.

4.14.1 IF ENS has failed, **PERFORM** notifications to the NRC using one of the following methods, as applicable:

- Commercial telephone line
- Trunk line to Berlin exchange
- Cellular telephone (station management or personal vehicle)
- Radio (state or local police to place call)

4.14.2 **OBTAIN** NRC Operations Center number from one of the following:

- Label on ENS telephone
- Attachment 8
- EPUG08B
- Other listing or directory assistance (alternate number)

4.14.3 WHEN NRC is contacted, **PROVIDE** the following information:

- a. ENS is inoperative
- b. Information recorded in Attachment 9
- c. If event is being terminated concurrent with the initial report, notice of event termination

4.14.4 **Refer To** EPUG-08B, "Millstone Emergency Plan Resource Book," and **NOTIFY** telecommunications personnel of ENS failure.

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
27 of 99

4.14.5 LOG NRC communications, as appropriate.

– End of Section 4.14 –

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
28 of 99

5. REVIEW AND SIGNOFF

5.1 The review and signoff for this procedure is located in the attachments.

6. REFERENCES

6.1 Developmental Documents

- 6.1.1 Code of Federal Regulations 10CFR20.403, 10CFR20.220 (10CFR20, 1/1/92 per Technical Specifications version for radiological effluents)
- 6.1.2 Code of Federal Regulations 40CFR302
- 6.1.3 NUREG-1022, Rev.1, "Event Reporting Guidelines 10CFR50.72 and 10CFR50.73"
- 6.1.4 Connecticut General Statute Title 22a-450, "Report of Discharge, Spill, Loss, Seepage, or Filtration"
- 6.1.5 Connecticut General Statute Title 22a-135, "Environmental Protection," Chapter 446, "Duties of Department of Environmental Protection"
- 6.1.6 State of Connecticut Department of Aquaculture, Memorandum of Understanding with Northeast Utilities, April 24, 1998
- 6.1.7 NU Letter A01093, 8/25/80 commits Northeast Utilities to notify the NRC Operations Center within one hour of a loss of any or all of the ENS extensions
- 6.1.8 NRC letter A10988, 4/30/93 commits Northeast Utilities to notify the NRC within four of RPS trips and events which result in the activation of the Engineered Safety Feature
- 6.1.9 NU Letter B12711, 10/23/87, states that non-emergency events reported to the State of CT., shall be reported to the NRC in accordance with 10CFR50.72(b)(2)(vi) i.e., State of CT. posture codes shall not be used when notifying the NRC of reportable events
- 6.1.10 Clarification on Reportable Liquid or Gaseous Releases (R. J. Smith RE-RA-217)

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
29 of 99

6.2 Supporting Documents

- 6.2.1 C OP 200.5, "Oil, Hazardous Material, Hazardous Waste, and Mixed Waste Contingency Plan"
- 6.2.2 EPUG-08B, "Millstone Emergency Plan Resource Book"
- 6.2.3 NGP 2.39, "National Pollutant Discharge Elimination System: Discharge Monitoring Reports Exceedance Notifications and Permit Modifications"
- 6.2.4 RAC 05, "10CFR50.72 Notification, 10CFR50.73 and 10CFR50.9(b) Reportability Determinations, and Licensee Event Reports"

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

30 of 99

7. SUMMARY OF CHANGES

- 7.1 This procedure was developed using the material that addressed non-emergency events and environmental events previously contained in EPIP 4400, "Event Assessment, Classification, and Reportability," and notification for these events, previously contained in EPIP 4404, "Notifications and Communications." --

EPIP 4400 and EPIP 4404 currently address classification and notification of Unusual Event or higher classifications.

- 7.2 Deleted all information and references pertaining to Connecticut Yankee.
- 7.3 Added information to the discussion step 1.2 and precautions step 3.5 to clarify that environmental reports must be made to outside agencies within the time limits specified in Attachment 1.
- 7.4 Added step 2.1.1 to the prerequisites section to clarify that the event is not addressed by the Emergency Action Level Tables.
- 7.5 Added step 2.1.2 to the prerequisites section to clarify that the event is reportable using Attachment 1, "Reportable Events."
- 7.6 Added CV, DOUBLE CLICK, MINIMIZE, NERF, and NPDES to the definitions section 2.3.
- 7.7 Added step 3.5 to the precautions section to clarify that failure to select the correct scenario may result in unwarranted activation or the release of incorrect information.
- 7.8 Changed the title of Section 4.1 from "Initial Event Classification," to "Initial Event Reportability Determination."
- 7.9 Added step 4.1.1.a for the SM to direct the Shift Technician to go to Section 4.6 and perform notifications associated with Attachment 1, "Reportable Events."
- 7.10 Added step 4.1.4.b for the SM to analyze available information and develop a general understanding of the event in progress.

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
31 of 99

- 7.11 Added step 4.1.1.c for the SM to assign staff to collect and track information.
- 7.12 Added the on-call Environmental Coordinator, on-shift Health Physics Technician, and Regulatory Affairs to the listing of personnel in step 4.1.1.d and step 4.2.1 to assist, as applicable, in classifying and responding to an event.
- 7.13 Added note prior to step 4.1.1.e to clarify that certain environmental events, including those not reportable to the NRC, have reportable time limits listed in Attachment 1.
- 7.14 Added the on-call Environmental Coordinator to steps 4.2.1, 4.3.1, 4.4.1, 4.5.1 and notes prior to steps 4.4.4 and 4.5.1.
- 7.15 Deleted notifications to the Manager Environmental Services – Nuclear in steps 4.2.1, 4.3.1, and 4.4.1.
- 7.16 Added step 4.1.1.i, 4.2.8, 4.3.3, 4.4.5 for the SM to go to Section 4.8 and perform NRC notifications.
- 7.17 Deleted previous step 4.2.4 to record the classification in the SM log book.
- 7.18 Added references to Attachment 3 in step 4.2.5 to determine if a radioactive release exceeds limits.
- 7.19 Added the on-call Manager of Radiological Dose Assessment, on-call Environmental Coordinator, Health Physics Supervision, and Regulatory Affairs to the listing of personnel in step 4.3.1 to notify if an oil spill has occurred.
- 7.20 Added the on-call Manager of Radiological Dose Assessment, on-call Environmental Coordinator, Health Physics Supervision, and Regulatory Affairs to step 4.4.1 to notify if a chemical, sewage, or hazardous material release has occurred.
- 7.21 Added step 4.4.4 to refer to Attachment 1 and determine event classification and reportability requirements.
- 7.22 Changed note prior to step 4.5.1 to clarify that the Manager Environmental Services–Nuclear or Designee will make the notification call to the DEP Bureau of Water Management.
- 7.23 Modified steps in Sections 4.6, 4.7, 4.9, 4.11, 4.13, Attachment 7 to reflect hardware and software replacement of the ENRS notification system.

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

32 of 99

7.24 Modified step 4.10.1 to correct that a Reportable Quantity of a radioactive material release is to the environment not just to water.

7.25 Added reference to the 1/1/92 version of 10CFR20 to step 6.1 per Technical Specifications.

7.26 Modified Attachment 1, "Reportable Events," as follows: --

- Added "reportable unplanned radiological release" to listing of environmental events that require NRC notifications.
- Added information to clarify reporting time limits for non-radiological environmental events.
- Added reporting requirements and time limits for any unplanned or unauthorized release of radiological material to the environment.
- Added 10CFR50.72(b)(2)(iv)(a) and (b) reporting criteria.
- Added 24 hour notification requirements per 10CFR20.2202(b) and 30 day notification requirements per 10CFR20.2203(a)(2)(3)(4).
- Clarified that the Manager Environmental Services-Nuclear or Designee will make the notification call to the DEP Bureau of Water Management.
- Added Note 12 to define "immediate" notification to the DEP Oil and Chemical Spill Division.

7.27 Modified Attachment 3, "Radiological Releases," as follows:

- Added reference 10CFR20 and CT General Statute 22a - 135-1.
- Added "Any Release of Radioactive Material," to Section D, "Unplanned or Unmonitored Liquid Release."
- Added LCO to Technical Specifications for Instantaneous Release Rate Limits.
- Clarified the wording for unmonitored gaseous release for iodine/particulate unmonitored gaseous total activity limit.
- Added the "correlation to 1 MPC at the boundry of restricted area" to item B 2.
- Added (State Regulation) to items B, C, and D.
- Added lines to separate calculations for noble gas, iodine, and

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

33 of 99

particulate values.

- Deleted value under “Unit 3 ESF Bldg.” that should have been blank.
- Added an alternative method for calculating the summation of MPCs.
- Added a limit of 5 to tritium.
- Added lines for “Reviewed by”.

7.28 Added a note to Attachment 4, “Reportable Quantity (RQ) of Hazardous Substances,” to clarify that RQs are defined for a release within a 24 hour period.

7.29 Modified Attachment 11, “Additional Notifications Checklist, as follows:

- Added notification to the Manager Site Services for environmental events
- Indicated the notification calls made by the Manager of Environmental Services – Nuclear or Designee to the DEP Bureau of Water Management.
- Changed Event 13 from “RQ of Radioactive Material Release to Water” to “RQ of Radioactive Material Release to the Environment.”
- Added item g. to Event 13 to clarify that if a release exceeds the Federal RQ, to notify the National Response Center.

7.30 Added new Attachment 12, “Non–Emergency Report Form (Significant Fitness for Duty Event.”

7.31 Added new Attachment 15, “Preparing and Transmitting a Non–Emergency Report Form.”

7.32 Added new Attachment 16, “Switching Telephone Lines.”

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

34 of 99

Attachment 1
Reportable Events
(Sheet 1 of 20)

NRC AND STATE INCIDENT CLASSIFICATION SCHEME

Event Description	NRC Classification Requirement	NRC Reporting Requirement	State Posture Code	State Reporting Requirement <small>(DEP Monitoring and Radiation Control Division)</small>	Notes (Sheet 20)
DEFINITIONS OF REPORTABLE EVENT CATEGORY					
Non-emergency events of general interest contained in 10CFR50.72.	N/A	10CFR50.72 Non-emergency event 1 and 4 hour report via ENS (Reported within 1 hour due to State Reg.) 10CFR73.71 Security Reports (SDI 612)	Echo (E) GENERAL INTEREST EVENT	As specified by each reportable event	NOTE 3
Loss of radioactive materials in excess of Federal exempt quantities.	N/A	Notification due to State Notification via ENS	Fix (F) RADIOACTIVE MATERIALS INCIDENT	As specified by each reportable event	NOTE 1, 3
Transportation accident in which radioactive materials may or may not have been released to the environment.	N/A	Notification due to State Notification via ENS	Golf (G) RADIOACTIVE MATERIALS INCIDENT	As specified by each reportable event	NOTE 1, 2

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
35 of 99

Attachment 1
Reportable Events
(Sheet 2 of 20)

NRC AND STATE INCIDENT CLASSIFICATION SCHEME (CONT'D.)

Reportable Event Description	NRC Classification Requirement	NRC Reporting Requirement	State Posture Code	State Reporting Requirement <small>(DEP Monitoring and Radiation Control Division)</small>	Notes (Sheet 20)
The initiation of any nuclear plant shutdown required by the plant's Technical Specifications.	10CFR50.72(b)(1)(i)(A)	Within 1 hour via ENS 10CFR50.72(b)(1)	E	Within 1 hour State Reg. 22a-135-1	NOTE 3
Any deviation from the plant's Technical Specifications authorized pursuant to 10CFR50.54(x) of this part.	10CFR50.72(b)(1)(i)(B) Non-emergency event 1 hour report	Within 1 hour via ENS 10CFR50.72(b)(1)	E	Within 1 hour State Reg. 22a-135-1	NOTE 3
NOTE:					
Any Service Water leaks within containment may be reportable under this section as a degradation of a containment boundary (NRC IE Bulletin 80-24, 11-21-80).					
Any event or condition during operation that results in the condition of the nuclear power plant, including its principal safety barriers, being seriously degraded, or results in the nuclear power plant being:	10CFR50.72(b)(1)(ii) Non-emergency event 1 hour report	Within 1 hour via ENS 10CFR50.72(b)(1)	E	Within 1 hour State Reg. 22a-135-1	NOTE 3
a. In an unanalyzed condition that significantly compromises plant safety;	10CFR50.72(b)(1)(ii)(A)	Within 1 hour via ENS 10CFR50.72(b)(1)	E	Within 1 hour State Reg. 22a-135-1	NOTE 3
b. In a condition that is outside the design basis of the plant; or	10CFR50.72(b)(1)(ii)(B)	Within 1 hour via ENS 10CFR50.72(b)(1)	E	Within 1 hour State Reg. 22a-135-1	NOTE 3
c. In a condition not covered by plant's operating and emergency procedures.	10CFR50.72(b)(1)(ii)(C)	Within 1 hour via ENS 10CFR50.72(b)(1)	E	Within 1 hour State Reg. 22a-135-1	NOTE 3
Any natural phenomenon or other external condition that poses an actual threat to the safety of the nuclear power plant or significantly hampers site personnel in the performance of duties necessary for the safe operation of the plant.	10CFR50.72(b)(1)(iii) Non-emergency event 1 hour report	Within 1 hour via ENS 10CFR50.72(b)(1)	E	Within 1 hour State Reg. 22a-135-1	NOTE 3
Any event that results or should have resulted in Emergency Core Cooling System (ECCS) discharge into the Reactor Coolant system as a result of a valid signal.	10CFR50.72(b)(1)(iv) Non-emergency event 1 hour report	Within 1 hour via ENS 10CFR50.72(b)(1)	E	Within 1 hour State Reg. 22a-135-1	NOTE 3

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
36 of 99

Attachment 1
Reportable Events
(Sheet 3 of 20)

NRC AND STATE INCIDENT CLASSIFICATION SCHEME (CONT'D.)

Reportable Event Description	NRC Classification Requirement	NRC Reporting Requirement	State Posture Code	State Reporting Requirement (DEP Monitoring and Radiation Control Division)	Notes (Sheet 20)
NOTE: Loss of the NRC ENS line (FTS 2000) reported to the NRC via alternate line.					
Any event that results in a major loss of emergency assessment capability, offsite response capability or communications capability (e.g., significant portion of Control Room indication, Emergency Notification System, or Offsite Notification System).	10CFR50.72(b)(1)(v) Non-emergency event 1 hour report	Within 1 hour via ENS 10CFR50.72(b)(1)	E	Within 1 hour State Reg. 22a-135-1	NOTE 3
<p>a. Any failure of the NRC Emergency Notification System (ENS), Health Physics Network (HPN), or other FTS 2000 line. (A busy signal or static on the line does not constitute a loss), or, [☛ Ref.6.1.10]</p> <p>b. Loss of all of the following communication lines:</p> <ol style="list-style-type: none"> 1. Commercial long distance back-up telephone lines (SNET) 2. Microwave to Berlin 3. Alternate tie line to Berlin. (Extension 855-9 from certain telephones, i.e., Control Rooms, DSEO in the EOF, CAS/SAS). 	10CFR50.72(b)(1)(v) Non-emergency event 1 hour report	Within 1 hour via ENS 10CFR50.72(b)(1)	E	Within 8 hours NU/State Agreement	NOTE 3, 9
Any event that poses an actual threat to the safety of the nuclear power plant or significantly hampers site personnel in the performance of duties necessary for the safe operation of the nuclear power plant including fires, toxic gas releases or radioactive releases.	10CFR50.72(b)(1)(vi) Non-emergency event 1 hour report	Within 1 hour via ENS 10CFR50.72(b)(1)	E	Within 1 hour State Reg. 22a-135-1	NOTE 3
Any event found while the reactor is shutdown, that, had it been found while the reactor was in operation, would have resulted in the nuclear power plant, including its principal safety barriers, being seriously degraded or being in an unanalyzed condition that could significantly compromise plant safety.	10CFR50.72(b)(2)(i) Non-emergency event 4 hour report, being reported within 1 hour due to State Reg.	Within 1 hour via ENS 10CFR50.72(b)(2)	E	Within 1 hour State Reg. 22a-135-1	NOTE 3 !

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
37 of 99

Attachment 1 Reportable Events

(Sheet 4 of 20)

NRC AND STATE INCIDENT CLASSIFICATION SCHEME (CONT'D.)

Reportable Event Description	NRC Classification Requirements	NRC Reporting Requirement	State Posture Code	State Reporting Requirement <small>(DEP Monitoring and Radiation Control Division)</small>	Notes (Sheet 20)
<p>Any event or condition that results in manual or automatic actuation of any Engineering Safety Feature (ESF), including the Reactor Protection System (RPS), except when: [♣ Ref. 6.1.11] (Refer to Att. 6 for Unit 1)</p> <p>a. The actuation results from and is part of a pre-planned sequence during testing or reactor operation;</p> <p>b. The actuation is invalid and:</p> <ol style="list-style-type: none"> 1. Occurs while the system is properly removed from service; 2. Occurs after the safety function has been already completed; or 3. Involves only the following specific ESFs or their equivalent systems: <ol style="list-style-type: none"> (i) Reactor water cleanup system; (ii) Control Room emergency ventilation system; (iii) Reactor Building ventilation system; (iv) Fuel Building ventilation system; or (v) Auxiliary Building ventilation system. 	<p>10CFR50.72(b)(2)(ii) Non-emergency event 4 hour report, being reported within 1 hour due to State Reg.</p> <p>10CFR50.72(b)(2)(ii)(A)</p> <p>10CFR50.72(b)(2)(ii)(B)</p> <p>10CFR50.72(b)(2)(ii)(B)(i)</p> <p>10CFR50.72(b)(2)(ii)(B)(2)</p> <p>10CFR50.72(b)(2)(ii)(B)(3)</p> <p>10CFR50.72(b)(2)(ii)(B)(3)(i)</p> <p>10CFR50.72(b)(2)(ii)(B)(3)(ii)</p> <p>10CFR50.72(b)(2)(ii)(B)(3)(iii)</p> <p>10CFR50.72(b)(2)(ii)(B)(3)(iv)</p> <p>10CFR50.72(b)(2)(ii)(B)(3)(v)</p>	<p>Within 1 hour via ENS 10CFR50.72(b)(2)</p>	E	<p>Within 1 hour State Reg. 22a-135-1</p>	NOTE 3

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
38 of 99

Attachment 1
Reportable Events
(Sheet 5 of 20)

NRC AND STATE INCIDENT CLASSIFICATION SCHEME (CONT'D.)

Reportable Event Description	NRC Classification Requirements	NRC Reporting Requirement	State Posture Code	State Reporting Requirement (DEP Monitoring and Radiation Control Division)	Notes (Sheet 20)
<p>Any event or condition that alone could have prevented the fulfillment of the safety function of structures or systems that are needed to:</p> <p>a. Shut down the reactor and maintain it in a safe shutdown condition,</p> <p>b. Remove residual heat,</p> <p>c. Control the release of radioactive material, or</p> <p>d. Mitigate the consequences of an accident.</p>	<p>10CFR50.72(b)(2)(iii) Non-emergency event 4 hour report, being reported within 1 hour due to State Reg.</p> <p>10CFR50.72(b)(2)(iii)(A)</p> <p>10CFR50.72(b)(2)(iii)(B)</p> <p>10CFR50.72(b)(2)(iii)(C)</p> <p>10CFR50.72(b)(2)(iii)(D)</p>	<p>Within 1 hour via ENS 10CFR50.72(b)(2)</p> <p>Within 1 hour via ENS 10CFR50.72(b)(2)</p> <p>Within 1 hour via ENS 10CFR50.72(b)(2)</p> <p>Within 1 hour via ENS 10CFR50.72(b)(2)</p>	<p>E</p> <p>E</p> <p>E</p> <p>E</p>	<p>Within 1 hour State Reg. 22a-135-1</p> <p>Within 1 hour State Reg. 22a-135-1</p> <p>Within 1 hour State Reg. 22a-135-1</p> <p>Within 1 hour State Reg. 22a-135-1</p> <p>Within 1 hour State Reg. 22a-135-1</p>	<p>NOTE 3</p> <p>NOTE 3</p> <p>NOTE 3</p> <p>NOTE 3</p>
<p>(A) Any airborne radioactive release that, when averaged over a time period of 1 hour, results in concentrations in an unrestricted area that exceed 20 times the applicable concentrations specified in appendix B to part 20, table 2, column 1.</p> <p>(B) Any liquid effluent release that, when averaged over a time of 1 hour, exceeds 20 times the applicable concentration specified in appendix B to part 20, table 2, column 2, at the point of entry into the receiving waters (i.e., unrestricted area) for all radionuclides except tritium and dissolved noble gases. (Immediate notifications made under this paragraph also satisfy the requirements of §20.2202 of this chapter.)</p>	<p>10CFR50.72(b)(2)(iv) Non-emergency event 4 hour report, being reported within 1 hour due to State Reg.</p>	<p>Within 1 hour via ENS 10CFR50.72(b)(2)</p>	<p>F</p>	<p>Within 1 hour State Reg. 22a-135-1</p>	<p>NOTE 1, 3</p>

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
39 of 99

Attachment 1

Reportable Events

(Sheet 6 of 20)

NRC AND STATE INCIDENT CLASSIFICATION SCHEME (CONT'D.)

Reportable Event Description	NRC Classification Requirements	NRC Reporting Requirement	State Posture Code	State Reporting Requirement <small>(EIP Monitoring and Radiation Control Division)</small>	Notes (Sheet 20)
Any event requiring the transport of a radioactively contaminated person to an offsite medical facility for treatment.	10CFR50.72(b)(2)(v) Non-emergency event 4 hour report, being reported within 1 hour due to State Reg.	Within 1 hour via ENS 10CFR50.72(b)(2)	G	Within 1 hour State Reg. 22a-135-1	NOTE 1, 3
Any instance of: (A) A defect in any spent fuel storage cask structure, system or component which is important to safety; or (B) A significant reduction in the effectiveness of any spent fuel storage cask confinement system during use of the storage cask under a general license issued under 72.210 of this chapter.	10CFR50.72(b)(2)(vii) Notification due to Notification of State	Within 1 hour via ENS 10CFR50.72(b)(1)	E	Within 1 hour State Reg. 22a-135-1	NOTE 3

NOTE:

The unit Environmental Coordinator or Manager of Environmental Services—Nuclear should be contacted to assist in classifying any environmental event. The following environmental events in Section A require NRC notification per 10CFR50.72(b)(2)(vi):

- Oil spill to receiving water
- Chemical / Hazardous material release or spill greater than the Federal RQ
- Non-spill related environmental event such as fish kill or other significant environmental event related to station operation
- Environmental event for which a news release is planned
- Reportable unplanned radiological release

Other environmental events listed in Section B are reportable to appropriate State Environmental Agencies but do not require NRC notification per NUREG 1022.

Any event or situation related to the health and safety of the public or onsite personnel, or protection of the environment, for which a news release is planned or notification to other government agencies has been or will be made. Such an event may include an onsite fatality or inadvertent release of radioactively contaminated materials.					
--	--	--	--	--	--

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
40 of 99

Attachment 1
Reportable Events
(Sheet 7 of 20)

NRC AND STATE INCIDENT CLASSIFICATION SCHEME (CONT'D.)

Reportable Event Description	NRC Classification Requirements	NRC Reporting Requirement	State Posture Code	State Reporting Requirement <small>(DEP Monitoring and Radiation Control Division)</small>	Notes (Sheet 20)
<p>The reportability of the following environmental events are based on the above description and guidance in NUREG 1022:</p> <p>Non-Radiological environmental events:</p> <p>Section A:</p> <p>a. Oil spill to receiving water</p> <p>b. A quantity of hazardous material greater than the Federal RQ (listed in Att. 4) is released on company property, i.e., a land surface or to the receiving waters.</p> <p>c. Non-spill related environmental event such as a fish kill or other significant environmental event related to station operation.</p> <p>d. Environmental event for which a news release is planned.</p>	<p>10CFR50.72(b)(2)(vi) Non-emergency event 4 hour report, being reported within 1 hour due to State Reg.</p>	<p>Within 1 hour via ENS 10CFR50.72(b)(2)</p>	<p>E</p>	<p>Immediate notification to the (DEP Oil and Chemical Spill Division) State Statute 22a-450</p> <p>Within 1 hour State Reg. 22a-135-1</p>	<p>NOTE 1, 3, 6, 10, 12</p>
	<p>10CFR50.72(b)(2)(vi)</p>	<p>Within 1 hour via ENS 10CFR50.72(b)(2)</p>	<p>E</p>	<p>Immediate notification to the (DEP Oil and Chemical Spill Division) State Statute 22a-450</p> <p>Within 1 hour State Reg. 22a-135-1</p>	<p>NOTE 1, 3, 6, 10, 12</p>
	<p>10CFR50.72(b)(2)(vi)</p>	<p>Within 1 hour via ENS 10CFR50.72(b)(2)</p>	<p>E</p>	<p>Within 1 hour State Reg. 22a-135-1</p>	<p>NOTE 1, 3, 6, 10</p>
	<p>10CFR50.72(b)(2)(vi)</p>	<p>Within 1 hour via ENS 10CFR50.72(b)(2)</p>	<p>E</p>	<p>Within 1 hour State Reg. 22a-135-1</p>	<p>NOTE 1, 3, 6, 10</p>

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
41 of 99

Attachment 1
Reportable Events
(Sheet 8 of 20)

NRC AND STATE INCIDENT CLASSIFICATION SCHEME (CONT'D.)

Reportable Event Description	NRC Classification Scheme	NRC Reporting Requirement	State Posture Code	State Reporting Requirement (DEP Monitoring and Radiation Control Division)	Notes (Sheet 20)
Section B: Prompt reports to the DEP Bureau of Water Management by Manager Environmental Services or Designee) a. Oil spill 1. Spill onto land surfaces of greater than ten (10) gallons 2. Leaking underground storage tank	 N/A N/A	 N/A N/A	 N/A N/A	 Immediate notification to the (DEP Oil and Chemical Spill Division) State Statute 22a-450 Immediate notification to the (DEP Oil and Chemical Spill Division) State Statute 22a-450	 NOTE 1, 12 NOTE 1, 12
b. Reportable Chemical, Sewage, or Hazardous Material (Not Oil) Release 1. A quantity of hazardous material greater than the NURQ but less than the Federal RQ (listed in Attachment 4) is released on company property, i.e., a land surface or to receiving waters.	 N/A	 N/A	 N/A	 Immediate notification to the (DEP Oil and Chemical Spill Division) State Statute 22a-450 Within 2 hours (DEP Bureau of Water Management) State Reg. 22a-430-3	 NOTE 1, 12

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
42 of 99

Attachment 1

Reportable Events

(Sheet 9 of 20)

NRC AND STATE INCIDENT CLASSIFICATION SCHEME (CONT'D.)

Reportable Event Description	NRC Classification Scheme	NRC Reporting Requirement	State Posture Code	State Reporting Requirement <small>(DEP Monitoring and Radiation Control Division)</small>	Notes (Sheet 20)
Reportable Chemical, Sewage, or Hazardous Material (Not Oil) Release (Cont'd) 2. The spilled material is sewage and the release has or will reach receiving water.	N/A	N/A	N/A	Immediate notification to the (DEP Oil & Chemical Spill Division) State Statute 22a-450 Within 2 hours (DEP Bureau of Water Management) State Reg. 22a-430-3	NOTE 1, 12
3. Any release of hazardous material, which has or will reach receiving water, and the discharge is not permitted by the station's NPDES permit.	N/A	N/A	N/A	Immediate notification to the (DEP Oil & Chemical Spill Division) State Statute 22a-450 Within 2 hours (DEP Bureau of Water Management) State Reg. 22a-430-3	NOTE 1, 12

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
 Rev. 0
 43 of 99

Attachment 1
Reportable Events
(Sheet 10 of 20)

NRC AND STATE INCIDENT CLASSIFICATION SCHEME (CONT'D.)

Reportable Event Description	NRC Classification Requirements	NRC Reporting Requirement	State Posture Code	State Reporting Requirement <small>(DEP Monitoring and Radiation Control Division)</small>	Notes (Sheet 20)
<p>The Environmental Coordinator will determine NPDES reportability</p> <p>a. NPDES Reportable Events</p> <p>1. <u>Reports of Non-Compliance with Permit Terms or Conditions</u></p> <p>If a NPDES event occurs during normal business hours, the DEP must be notified within 2 hours by telephone. If a NPDES event occurs outside normal business hours, the DEP must be notified at the start of the next business day. This must be followed by a written notification within five days. These exceedances are defined by the DEP as any of the following conditions</p> <ul style="list-style-type: none"> • Any exceedance of a <u>daily maximum limit</u> • An exceedance greater than two times any other permitted limit • A condition that may potentially endanger human health or the environment 	N/A	N/A	N/A	Within 2 hours (DEP Bureau of Water Management) State Reg. 22a-430-3	NOTE 1

Level of Use
General

STOP THINK ACT REVIEW

! :

EPIP 4400A
 Rev. 0
 44 of 99

Attachment 1
Reportable Events
 (Sheet 11 of 20)

NRC AND STATE INCIDENT CLASSIFICATION SCHEME (CONT'D.)

Reportable Event Description	NRC Classification Requirements	NRC Reporting Requirement	State Posture Code	State Reporting Requirement <small>(DEP Monitoring and Radiation Control Division)</small>	Notes <small>(Sheet 20)</small>
<p>NPDES Reportable Events (Cont'd)</p> <p>2. <u>Reports of Impermissible Concentration Levels</u></p> <p>The DEP must be notified within 72 hours and a written report submitted within 30 days whenever, through knowledge or reasonable belief, the concentration in the discharge of any substance for which analytical results or estimates were included in the most recent permit application, or any toxic substance listed in Appendix B or D of RCSA 22a-430-4 has exceeded or will exceed the highest of the following levels:</p> <ul style="list-style-type: none"> • One hundred micrograms per liter • An alternative level specified by the DEP, or • A level twice as high as that specified in the permit application <p>3. <u>Reports of Equipment Failure or Malfunction</u></p> <p>The DEP must be notified of any failure or malfunction of all required monitoring equipment within two hours of such failure or malfunction, if the event occurs during a normal business day, or at the start of the next business day, if such failure or malfunction occurs outside normal business hours. This must be followed by a written report within five days of the failure or malfunction, and include a description of efforts initiated to properly repair all required monitoring equipment.</p>	<p>N/A</p> <p>N/A</p>	<p>N/A</p> <p>N/A</p>	<p>N/A</p> <p>N/A</p>	<p>Within 72 hours (DEP Bureau of Water Management) State Reg. 22a-430-3</p> <p>Within 2 hours (DEP Bureau of Water Management) State Reg. 22a-430-3</p>	<p>NOTE 1</p> <p>NOTE 1</p>

Level of Use
 General

STOP THINK ACT REVIEW

EPIP 4400A
 Rev. 0
 45 of 99

Attachment 1
Reportable Events
 (Sheet 12 of 20)

NRC AND STATE INCIDENT CLASSIFICATION SCHEME (CONT'D.)

Reportable Event Description	NRC Classification Requirements	NRC Reporting Requirement	State Posture Code	State Reporting Requirement <small>(DEP Monitoring and Radiation Control Division)</small>	Notes (Sheet 20)
<p>NPDES Reportable Events (Cont'd)</p> <p>4. Reports of Bypass</p> <p>A bypass of the collection system or treatment facilities is not permitted under Reference 2.1.4 unless:</p> <ul style="list-style-type: none"> Such bypass is unanticipated, unavoidable, and necessary to prevent loss of life, personal injury or severe property damage, and there are no feasible alternatives to the bypass, or Prior written approval of the bypass is received from the DEP to perform essential maintenance <p>In the event of a bypass, the DEP must be notified within two working hours. This must be followed by written notification within five days.</p> <p>To prevent a bypass, alternative treatment or collection schemes, among other options, can be utilized. However, the DEP must be notified at least 24 hours prior to implementation.</p> <p>Any monitoring performed during the time that an alternative treatment or collection method is in place must be submitted with the next DMR.</p>	N/A	N/A	N/A	<p>Within 2 hours (DEP Bureau of Water Management) State Reg. 22a-430-3</p>	NOTE 1

!

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
 Rev. 0
 46 of 99

Attachment 1
Reportable Events
(Sheet 13 of 20)

NRC AND STATE INCIDENT CLASSIFICATION SCHEME (CONT'D.)

Reportable Event Description	NRC Classification Requirements	NRC Reporting Requirement	State Posture Code	State Reporting Requirement (DEP Monitoring and Radiation Control Division)	Notes (Sheet 20)
------------------------------	---------------------------------	---------------------------	--------------------	--	---------------------

NOTE

Activities not described in the permit or permit application such as process changes, direction of wastewater from its authorized discharged point to other discharge locations, maintenance activities resulting wastewater discharges, relocation of sample points, actions taken to prevent, correct or avoid actual or potential non-compliance, require a determination in advance by Environmental Services Nuclear of the appropriate action (e.g., consent from the DEP) or notification required.

<p>NPDES Reportable Events (Cont'd)</p> <p>5. Reports of Facility Modifications</p> <p>The prior written approval of the DEP is required to expand or "significantly alter" any wastewater collection or treatment facility of its method of operation, unless such change is necessary to correct or avoid a permit violation. In the event that a significant change to a collection or treatment facility or its method of operation is made in order to correct or avoid a permit violation, the DEP must be notified within two working hours, or at the start of the next business day if the change is made outside normal business hours. This must be followed by a written report within 30 days.</p> <p>The DEP must be notified prior to any facility expansion or alteration, production increase or process modification which may result in:</p> <ul style="list-style-type: none"> • The discharge of any new water, substance, or material • The increase of the quantity or concentration of an existing pollutant beyond permit conditions, or • The creation of a "new source" <p>This proposed activity may not be undertaken until either:</p> <ul style="list-style-type: none"> • Notification is received from the DEP that a permit modification is unnecessary, or • A permit modification is obtained 	N/A	N/A	N/A	<p>Within 2 hours (DEP Bureau of Water Management) State Reg. 22a-430-3</p>	NOTE 1
--	-----	-----	-----	---	--------

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
47 of 99

Attachment 1
Reportable Events
(Sheet 14 of 20)

NRC AND STATE INCIDENT CLASSIFICATION SCHEME (CONT'D.)

Reportable Event Description	NRC Classification Scheme	NRC Reporting Requirement	State Posture Code	State Reporting Requirement (DEP Monitoring and Radiation Control Division)	Notes (Sheet 20)
<p>NPDES Reportable Events (Cont'd)</p> <p>6. <u>Correcting Submittals to DEP</u></p> <p>When it is determined that prior submittals to the DEP, including DMRs, are erroneous or that necessary information was omitted, notify the DEP within 72 hours and submit the correct information in writing within 30 days.</p>	N/A	N/A	N/A	Within 72 hours (DEP Bureau of Water Management) State Reg. 22a-430-3	NOTE 1
<p>Event of significant public interest, but of no public hazard, nor involves a safety grade system. No radioactive release. Includes but is not limited to:</p> <p>a. Incidents that require outside assistance such as:</p> <ol style="list-style-type: none"> 1. Fire, (if fire last longer than 10 minutes within unit, refer to EAL table). 2. Civil Disturbance 3. Credible Bomb Threat 4. Railroad car derailment involving chlorine or other hazardous material. <p>b. Environmental event (press release is planned)</p> <p>c. Derating caused by Regulatory Action, or</p> <p>d. Any unscheduled shutdown estimated to last more than 48 hours, or</p> <p>e. Derating greater than 50% caused by equipment malfunction lasting more than 72 hours, or</p> <p>f. Any scheduled shutdown for testing, maintenance, or refueling expected to last more than 72 hours and confirmed by NEPEX/CONVEX</p>	10CFR50.72(b)(2)(vi) (Notification due to Notification of State)	Within 1 hour of State Notification 10CFR50.72(b)(2)	E	Within 8 hours NU/State Agreement	NOTE 6

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
48 of 99

Attachment 1
Reportable Events
(Sheet 15 of 20)

NRC AND STATE INCIDENT CLASSIFICATION SCHEME (CONT'D.)

Reportable Event Description	NRC Classification Requirements	NRC Reporting Requirement	State Posture Code	State Reporting Requirement <small>(DEP Monitoring and Radiation Control Division)</small>	Notes (Sheet 19)
Strikes of operating employees or security guards, or honoring of picket lines by these employees.	10CFR50.72(b)(2)(vi) (Notification due to notification of State)	Within 1 hour via ENS 10CFR50.72(b)(2)	E	Within 1 hour NU/State Agreement	NOTE 11
Significant Fitness For Duty Events: 1. The sale, use or possession of illegal drugs within the Protected Area. 2. Any acts by any person licensed under 10CFR part 55 to operate a power reactor or by any company supervisory personnel assigned to perform duties within the scope of this part. (i) Involving the sale, use or possession of a controlled substance; (ii) Resulting in confirmed positive tests on such persons; (iii) Involving use of alcohol within the Protected Area, OR (iv) Resulting in a determination of unfitness for scheduled work due to the consumption of alcohol.	10CFR26.73 Non-emergency Event	Within 24 hours via ENS	E	Within 24 hours NU/State Agreement	NOTE 6
Security Reports. Refer to SDI 612 for reporting requirements.	10CFR73.71 Security/Safeguards 1 hour report	Within 1 hour via ENS 10CFR73.71(a)(1)	E	Within 1 hour State Reg. 22a-135-1	NOTE 11

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
49 of 99

Attachment 1
Reportable Events
(Sheet 16 of 20)

NRC AND STATE INCIDENT CLASSIFICATION SCHEME (CONT'D.)

Reportable Event Description	NRC Classification Requirements	NRC Reporting Requirement	State Posture Code	State Reporting Requirement <small>(DEP Monitoring and Radiation Control Division)</small>	Notes (Sheet 20)
Release of radioactive materials in excess of reportable quantities. (Refer to Attachment 3, Section 4)	40CFR302.4 Non-Emergency Event 1 Hour report	Within 1 hour via ENS 40CFR302.6	F	Within 1 hour State Reg. 22a-135-1	NOTE 7
Any unplanned, unmonitored, or unauthorized release of radiological material to the environment. (Refer to Attachment 3, Sections 2 and 3.)	10CFR50.72(b)(2)(vi)	Within 1 hour via ENS 10CFR50.72(b)(2)(vi)	F	Within 1 hour State Reg. 22a-135-1	NOTE 1, 3
a. Immediate Notification Any events involving by-product, source or special nuclear materials possessed by the license that may have caused or threatens to cause any of the following conditions: 1. Any individual to receive (i) ≥ 25 rem TEDE; or (ii) ≥ 75 rem eye dose equivalent; or (iii) ≥ 250 Rad SDE to skin or extremities; or 2. The release of radioactive materials, inside or outside of a restricted area, so that, had an individual been present for 24 hours, the individual could have received an intake five times the annual limit on intake (the provisions of this paragraph do not apply to locations where personnel are not normally stationed during routine operations, such as hot-cells or process enclosures).	10CFR20.2202(a) 10CFR50.72(b)(2)(vi)	Within 1 hour via ENS 10CFR50.72(b)(1)	G	Within 1 hour NU/State Agreement	NOTE 3, 4

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
50 of 99

Attachment 1
Reportable Events
(Sheet 17 of 20)

NRC AND STATE INCIDENT CLASSIFICATION SCHEME (CONT'D.)

Reportable Event Description	NRC Classification Requirements	NRC Reporting Requirement	State Posture Code	State Reporting Requirement <small>(DEP Monitoring and Radiation Control Division)</small>	Notes (Sheet 20)
<p>b. Twenty-four Notification</p> <p>Each licensee shall, within 24 hours of discovery of the event, report any event involving loss of control of licensed material possessed by the licensee that may have caused, or threatens to cause, any of the following conditions:</p> <ol style="list-style-type: none"> 1. An individual to receive, in a period of 24 hours <ol style="list-style-type: none"> (i) A total effective dose equivalent exceeding 5 rems or, (ii) A lens dose equivalent exceeding 15 rems or, (iii) A shallow dose equivalent to the skin or extremities exceeding 50 rems or, 2. The release of radioactive material, inside or outside of a restricted area, so that, had an individual been present for 24 hours, the individual could have received an intake in excess of one occupational annual limit on intake (the provisions of this paragraph do not apply to locations where personnel are not normally stationed during routine operations, such as hot-cells or process enclosures) 	10CFR20.2202(b)	Within 24 hours	G	Within 24 hours	NOTE 4
<p>c. Reportable Events</p> <ol style="list-style-type: none"> 1. Doses in excess of any of the following: <ol style="list-style-type: none"> (i) The occupational dose limits for adults in §20.1201 or, (ii) The occupational dose limits for a minor in § 20.1207 or, (iii) The limits for an embryo/fetus of a declared pregnant woman in § 20.1208 or, (iv) The limits for an individual member of the public in §20.1301 	10CFR20.2203 (a)(2)(3)(4)	Within 30 days	N/A	N/A	

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
51 of 99

Attachment 1
Reportable Events
(Sheet 18 of 20)

NRC AND STATE INCIDENT CLASSIFICATION SCHEME (CONT'D.)

Reportable Event Description	NRC Classification Requirements	NRC Reporting Requirement	State Posture Code	State Reporting Requirement <small>(DEP Monitoring and Radiation Control Division)</small>	Notes (Sheet 20)
c. Reportable Events (Cont'd) 2. Levels of radiation or concentrations of radioactive materials in (i) A restricted area in excess of any applicable limit in the license or (ii) An unrestricted area in excess of 10 times any applicable limit set forth in this part or in the license (whether or not involving exposure of any individual in excess of the limits in § 20.1301)	10CFR20.2203 (a)(2)(3)(4)	Within 30 days	N/A	N/A	
Report of theft or loss of radioactive material. Immediately after its occurrence becomes known to the licensee, any lost, stolen or missing licensed material in an aggregate quantity equal to or greater than 1,000 times the quantity specified in Appendix C to Part 20 under such circumstances that it appears to the licensee that an exposure could result to persons in unrestricted area.	10CFR20.2201(a)(1)(i) 10CFR74.11(a)	Within 1 hour via ENS 10CFR50.72(b)(1)	F	Within 1 hour NU/State Agreement	NOTE 1, 6
Discovery of accidental criticality or any loss of special nuclear material or attempted theft.	10CFR72.74	Within 1 hour via ENS 10CFR72.74	F	Within 15 minutes State Reg. 22a-135-1	NOTE 1, 6

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
52 of 99

Attachment 1
Reportable Events
(Sheet 19 of 20)

NRC AND STATE INCIDENT CLASSIFICATION SCHEME (CONT'D.)

Reportable Event Description	NRC Classification Requirements	NRC Reporting Requirement	State Posture Code	State Reporting Requirement <small>(DEP Monitoring and Radiation Control Division)</small>	Notes (Sheet 20)
NOTE: This event is applicable only if the materials being transported are the property or responsibility of NU					
Radioactive material transport accident taking place in Connecticut outside a fixed facility.	10CFR50.72(b)(2)(vi) (Notification due to State Notification and request for support)	Within 1 hour via ENS 10CFR50.72(b)(2)	G	Within 1 hour NU/State Agreement	NOTE 2
NOTE: If the items below will be made public, declaration of a GENERAL INTEREST EVENT, posture code ECHO is warranted.					
Any licensed operator on-shift found sleeping on watch.	Informational Notification (Commercial Line)	N/A	N/A	N/A	N/A
Any serious injury occurring on site	N/A	N/A	N/A	N/A	NOTE 2
Serious damage to plant equipment or facilities	N/A	N/A	N/A	N/A	NOTE 2, 11
Load decrease equal to or greater than 25% or anticipated removal of unit from service within next 24 hours.	N/A	N/A	N/A	N/A	NOTE 2, 11
INFORMATIONAL NOTIFICATION:					
Informational Notification are calls made to the NRC Emergency Operations Center and the State Department of Environmental Protection (various branches) via commercial line to inform them of an event(s) or condition(s) which is/are below the threshold limits established for reporting via the prompt notification system (ENS Hotline or the radiopager).					
Any fire related incident involving a PCB transformer shall be reported to the National Response Center	N/A	Commercial Line	N/A	Information Notification (Commercial Line) Within 8 hours	NOTE 2, 7

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
53 of 99

Attachment 1

Reportable Events

(Sheet 20 of 20)

NOTES

TELEPHONE NUMBERS ARE ALSO AVAILABLE IN EPUG 08B

NOTE 1	Refer To Attachment 11 for additional notifications
NOTE 2	In the event of an incident involving a fatality or serious injury, contamination or significant damage such as that caused by fire, explosion, lightning or loss of electrical power and for planned exercises, a telephone report of the circumstances to the NU Claims and Insurance Department within one (1) hour is warranted. The Director of Claims Insurance can be reached at 9-665-3535 (Business No.) or 9-621-9522 (Home Phone); the Sr. Insurance Analyst at 9-665-3483 (Business No.) or 9-829-1170 (Home Phone). If you are unable to contact the NU Claims and Insurance Department, the insurer can be reached at 9-561-3433 (American Nuclear Insurers).
NOTE 3	Follow-up notification. Telephone notifications made for non-emergency one (1) and four (4) hour events will require follow-up notifications in addition to the initial notification during the course of the event as follows: a. Immediate Report: (i) Any further degradation in the level of safety of the plant or other worsening plant conditions, including those that required the declaration of any of the Emergency Classes, if such a declaration has not been previously made, or a. Immediate Report: (i) The result of engineering evaluations or assessments of plant conditions (ii) The effectiveness of response or protective measures taken, and (iii) Information related to plant behavior that is not understood. a. NRC may request an open, continuous communication channel with the NRC Operations Center.
NOTE 4	In any event involving radiation overexposure, a copy of the radiation overexposure report shall be forwarded to the American Nuclear Insurers (ANI) c/o ANI Library.
NOTE 5	Deleted
NOTE 6	State DEP may call asking for further information on a radioactive release or other event. Information can be given only after verifying the name and DEP office number of the caller in EPUG-08 (SERO telephone listings).
NOTE 7	The National Response Center should be immediately notified by telephone at 1-800-424-8802 if the release of hazardous substance within a 24 hour period reaches quantities equal to or greater than the Federal RQ specified in Attachment 4.
NOTE 8	Deleted
NOTE 9	If the Emergency Notification System is inoperative, the licensee shall make the required notifications via commercial telephone service, other dedicated telephone system, or any other method which will ensure that a report is made as soon as practical to the NRC Operations Center. (10CFR50.72(a)(2))
NOTE 10	This State reporting requirement (22a-135-1) informs the DEP Monitoring and Radiation Control Division of station reportable events that are also reported to the NRC. Other DEP environmental divisions, i.e., Water Management, are entirely independent from the Monitoring and Radiation Control Division, and have their own criteria for reporting specific environmental events.
NOTE 11	If the press or public is to be notified of this occurrence, the NRC must be informed within 4 hours IAW 50.72(b)(2)(vi). If the NRC is notified, the State DEP Monitoring and Radiation Control Division must also be notified per State Reg. 22a-135-1.
NOTE 12:	"Immediate" refers to the regulatory response time to notify the DEP Oil and Chemical Spill Division in the event of a spill or release. Every effort should be made to make this call as soon as practical, not to exceed 1 hour.

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
54 of 99

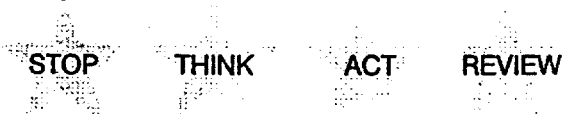
Attachment 2

Report of Petroleum or Chemical Product Discharge, Spillage, Seepage, Filtration or Sewage Discharge to Environment

(Sheet 1 of 1)

UNIT	COMPANY NAME	SPILL OCCURRED OR DISCOVERED	DATE	TIME
REPORT PREPARED BY		DEPT	PHONE	
SUPERVISOR IN CHARGE		EMPLOYEE REPORTING SPILL		
1. SPILL LOCATION UNIT _____ ON SITE LOCATION _____ TOWN _____ STREET _____		2. EQUIPMENT, NUMBER/SIZE EACH UNIT <input type="checkbox"/> CONTAINER(S) _____ <input type="checkbox"/> VEHICLE(S) _____ <input type="checkbox"/> TANK _____ <input type="checkbox"/> OTHER _____		3. SPILL QUANTITY AND MATERIAL GALLONS _____ <input type="checkbox"/> OIL (TYPE) _____ <input type="checkbox"/> CHEMICAL (NAME) _____ <input type="checkbox"/> OTHER (NAME) _____
4. MATERIAL HAS SPILLED ONTO <input type="checkbox"/> PAVEMENT _____ <input type="checkbox"/> TREES _____ <input type="checkbox"/> EARTH _____ <input type="checkbox"/> CONCRETE _____ <input type="checkbox"/> LAWN _____ <input type="checkbox"/> PERSONS _____ <input type="checkbox"/> SHRUBS/BRUSH _____ <input type="checkbox"/> OTHER _____			5. MATERIAL HAS SPILLED INTO <input type="checkbox"/> CATCH BASIN OR STORM DRAIN _____ <input type="checkbox"/> BODY OF WATER (NAME) _____ <input type="checkbox"/> OTHER _____	
6. HAS SPILL BEEN CONTAINED? <input type="checkbox"/> YES <input type="checkbox"/> NO				
7. APPARENT SPILL CAUSE <input type="checkbox"/> VEHICLE ACCIDENT <input type="checkbox"/> VANDALISM <input type="checkbox"/> STORM EVENT <input type="checkbox"/> CORROSION <input type="checkbox"/> EQUIP. FAILURE <input type="checkbox"/> HUMAN ERROR <input type="checkbox"/> OTHER _____		8. SPILL EVENT <input type="checkbox"/> TANK OR PIPING RUPTURE <input type="checkbox"/> GASKET/FITTING LEAK <input type="checkbox"/> ABOVE GROUND <input type="checkbox"/> OVERFILL <input type="checkbox"/> BELOW GROUND <input type="checkbox"/> FIRE <input type="checkbox"/> BURN OR CORROSION HOLE <input type="checkbox"/> OTHER _____		9. WEATHER <input type="checkbox"/> FAIR <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW/SLEET <input type="checkbox"/> HIGH WIND
IF FED. RQ INFORMATION OBTAINED FROM CHEMISTRY DEPARTMENT AND ATTACHMENT 4, "REPORTABLE QUANTITY (RQ) OF HAZARDOUS SUBSTANCES." REPORTABLE QUANTITY (RQ) RELEASED <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, ALSO FILL OUT EPIP4400A, ATTACHMENT 5 AND ATTACH TO THIS FORM				
DESCRIPTION OF SPILL EVENT				
REPORTING REQUIREMENTS: AFTER DETERMINING THE TYPE OF SPILL EVENT AND ITS REPORTABILITY, PERFORM THE SPECIFIC NOTIFICATIONS PER EPIP 4400A INCLUDING ATTACHMENT 11, "ADDITIONAL NOTIFICATIONS CHECKLIST." LOG ALL CALLS TO REGULATORY AGENCIES NOT COVERED UNDER RADIOPAGER NOTIFICATION.				
AGENCY NOTIFIED	CONTACT NAME	TEL. # (EPLUG 08)	DATE	TIME

Level of Use
General



EPIP 4400A
 Rev. 0
 55 of 99

Attachment 3
Radiological Releases

(Sheet 1 of 11)

Section 1 – Definitions

- A. Technical Specification Limits – Those limits, liquid and gaseous, stated in the Unit Specific Safety Technical Specifications.
- B. Unmonitored Releases – Any release, liquid or gaseous, from a release path which does not have an established monitor or sampling program.
- C. Monitored Releases
 - 1. The release, liquid or gaseous, is via a Technical Specification effluent pathway with an established monitor, or
 - 2. The monitor stated above is out of service, but grab samples are being taken in accordance with the action statements, or
 - 3. A routine grab sample program is in effect for a potential release path of low level activity.
- D. Unplanned Releases – Any release that is not a planned liquid discharge or a gaseous increase due to an evolution not listed in Section 6, “Maintenance Operations.”
- E. Planned Releases – Any release, liquid or gaseous, for which a discharge permit has been issued or which results from an evolution listed in Section 6, “Maintenance Operations.”
- F. Gaseous Batch Release – A gaseous release of known volume that is discharged instantaneously or within a short period of time.
- G. Gaseous Long Term Release – Releases that are generally continuous (i.e., not a batch). Examples: steam dumps, safeties, blowdown vents, and normal ventilation.
- H. Environmental Protection Agency Reportable Quantity (RO) Reportable Release – Any release or loss of radioactive material (airborne, liquid, or solid) to the environment which exceeds the levels permitted in 40CFR302, see Section 4, “EPA Reportable Releases.”

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A
Rev. 0
56 of 99

Attachment 3
Radiological Releases

(Sheet 2 of 11)

Section 2 – Reportable Releases

The following releases are reportable per 10CFR50.72, 10CFR20, and the State of Connecticut Statute 22a-135-1. The release calculations are presented in Section 3, Sheet 3 of 11, "Release Calculations."

NOTE

MPCs are still in use for Technical Specification effluent limits instead of ECs at Millstone.

A. Releases Exceeding Technical Specification Limits

Any release, liquid or gaseous, exceeding technical specification LCO for Instantaneous Release Rate Limits.

B. Unmonitored Gaseous Releases (State Regulation)

1. The Total Activity Released exceeds 1 curie of noble gases or 100 microcuries of iodine or 100 microcuries of particulates with half lives greater than 8 days.
2. The concentration at the release point was such that the sum of the MPC fractions, as determined using 10CFR20, 01/01/92, Appendix B, Table II, Col. 1, was greater than 200. (Correlation to 1 MPC at boundry of restricted area)

C. Unplanned Gaseous Releases (State Regulation)

Any increase in noble gas release rates which, when averaged over 10 minutes, is greater than 1500 microcuries/sec above the normal (existing) release rate and this increase is not due to a planned or expected event as listed in Section 6, "Maintenance Operations."

D. Unplanned or Unmonitored Liquid Release (State Regulation)

1. Any liquid release (planned or unplanned, monitored or unmonitored) exceeding the technical specification Instantaneous Release Rate Limit, that is, the sum of the MPC fractions (per 10CFR20, 01/01/92, Appendix B, Table II, Column 2), after dilution, exceeds one (1).
2. Any unplanned or unmonitored release for which the Total Activity Released (excluding tritium and dissolved gases) exceeded 1×10^{-3} curie.

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

57 of 99

Attachment 3
Radiological Releases

(Sheet 3 of 11)

Section 2 – Reportable Releases (Cont'd)

E. Any Release of Radioactive Material

1. Any release of radioactive material so that, had an individual been present for 24 hours, the individual could have received an intake five times the annual limit on intake (1000 ALI at point of release for air, 5 ALI for liquid).
2. Any release of radioactive material so that, had an individual been present for 24 hours, the individual could have received an intake in excess of one occupational annual limit on intake (200 ALI at point of release for air, 1 ALE for liquid).
3. Levels of radioactive material in unrestricted area in concentrations exceeding 10 times the limits of 10CFR20 (2000 times at point of release for air, 10 times for liquid).
4. Any airborne radioactive release that when averaged over one hour exceeds 20 times the limits specified in appendix B, 10CFR20, table 2, column 1 (4000 times at point of release).
5. Any liquid radioactive release that when averaged over one hour exceeds 20 times the limits specified in appendix B, 10CFR20, table 2, column 1 (20 times at point of release).

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

58 of 99

Attachment 3
Radiological Releases
(Sheet 4 of 11)

Section 3 – Release Calculations

UNMONITORED GASEOUS RELEASES:

Batch Release Calculation

Grab Sample Activity ($\mu\text{Ci/cc}$) x Volume Discharged (cc) x $\frac{10^{-6} \text{ Curie}}{\mu\text{Ci}} = < 1 \text{ Curie Noble Gas (NG)}$
 $< 10^{-4} \text{ Curies I or Part}$

NG: _____ $\mu\text{Ci/cc}$ x _____ cc x $\frac{10^{-6} \text{ Curie}}{\mu\text{Ci}} =$ _____ Curies

I: _____ $\mu\text{Ci/cc}$ x _____ cc x $\frac{10^{-6} \text{ Curie}}{\mu\text{Ci}} =$ _____ Curies

Part: _____ $\mu\text{Ci/cc}$ x _____ cc x $\frac{10^{-6} \text{ Curie}}{\mu\text{Ci}} =$ _____ Curies

Long Term Release Calculation

Grab Sample Activity ($\mu\text{Ci/cc}$) x Flow Rate (cc/min) x Time (min) x $\frac{10^{-6} \text{ Curie}}{\mu\text{Ci}} = < 1 \text{ Curie Noble Gas}$
 $< 10^{-4} \text{ Curies I or Part}$

NG: _____ $\mu\text{Ci/cc}$ x _____ cc/min x _____ min. x $\frac{10^{-6} \text{ Curie}}{\mu\text{Ci}} =$ _____ Curies

I: _____ $\mu\text{Ci/cc}$ x _____ cc/min x _____ min. x $\frac{10^{-6} \text{ Curie}}{\mu\text{Ci}} =$ _____ Curies

Part: _____ $\mu\text{Ci/cc}$ x _____ cc/min x _____ min. x $\frac{10^{-6} \text{ Curie}}{\mu\text{Ci}} =$ _____ Curies

Release Calculation – No Dilution

$\Sigma(\text{Individual Isotope } \mu\text{Ci/cc}) \div \text{Isotope's MPC Value } \mu\text{Ci/cc/MPC} = \# \text{ of MPCs}$

$\Sigma(\text{_____ } \mu\text{Ci/cc}) \div \text{_____ } \mu\text{Ci/cc/MPC} = \text{_____ MPC}^*$

*Sum of all MPCs must be less than 200. Effluent limits are still based on MPCs, not ECs.

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIC 4400A
Rev. 0
59 of 99

**Attachment 3
Radiological Releases**

(Sheet 5 of 11)

Section 3 – Release Calculations (Cont'd)

Release Calculation – Dilution

$$\sum \left(\frac{\text{Individual Isotope } (\mu\text{Ci/cc}) \times \text{Source Flow Rate (CFM)}}{\text{Total Flow Rate (CFM) (Source \& Dilution)}} \div \text{Isotope's MPC Value } (\mu\text{Ci/cc/MPC}) \right) = \text{\#of MPCs}$$

$$\Sigma(\text{_____ } \mu\text{Ci/cc} \times \text{_____ CFM} \div \text{_____ CFM} \div \text{_____ } \mu\text{Ci/cc/MPC}) = \text{_____ MPC}^*$$

OR # of MPCs (before dilution) x Source Flow Rate ÷ Total Flow Rate = of MPCs (after dilution)

$$\text{_____ MPC} \times \text{_____ CFM} \div \text{_____ CFM} = \text{_____ MPC}^*$$

*Sum of all MPCs must be less than 200. Effluent limits are still based on MPCs, not ECs.

Prepared by _____ Date _____

Reviewed by _____ Date _____

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A
Rev. 0
60 of 99

Attachment 3
Radiological Releases
(Sheet 6 of 11)

Section 3 – Release Calculations (Cont'd)

UNPLANNED GASEOUS RELEASES

Unit 1 – Using Stack Gas Strip Chart on CRP 902 (CRP 910 Meter) ..

$$\text{Average 10 minute Response (CPS)} - \text{Norm. Reading (CPS)} \times \text{Conversion Factor}^* = \text{_____} < 1500 \mu\text{Ci/sec}$$

($\mu\text{Ci/sec} - (\text{CPS})$)

$$\text{_____ CPS} - \text{_____ CPS} \times \text{_____ } (\mu\text{Ci/sec}) - \text{CPS} = \text{_____} < 1500 \mu\text{Ci/sec}$$

*Conversion factors are determined weekly by Chemistry and are posted.

Unit 2 – Using Vent Strip Chart on CRP C0-6

Note: Appropriate data from OPS Form 2314A-3, "NU Unplanned Radioactive Release Reporting Criteria Checklist" may be substituted.

$$\text{Average 10 minute Response (CPM)} - \text{Normal Reading (CPM)} \times \text{Conversion Factor}^* = \text{_____} < 1500 \mu\text{Ci/sec}$$

($\mu\text{Ci/sec} - (\text{CPM})$)

$$\text{_____ CPM} - \text{_____ CPM} \times \text{_____ } (\mu\text{Ci/sec}) - (\text{CPM}) = \text{_____} < 1500 \mu\text{Ci/sec}$$

*Conversion factors are determined weekly by Chemistry and are posted.

Unit 3 Vent

$$\text{Average 10 Minute Net Increase on HVR-RE 10B in } \mu\text{Ci/cc} \times \text{Flow Rate (cc/sec)} = \text{_____} < 1500 \mu\text{Ci/sec}$$

$$\text{_____ } \mu\text{Ci/cc} \times \text{_____ cc/sec} = \text{_____ } \mu\text{Ci/sec}$$

Unit 3 ESF Bldg.

$$\text{Average 10 Minute Net Increase on HVQ-RE49 in } \mu\text{Ci/cc} \times \text{Flow Rate (cc/sec)} = \text{_____} < 1500 \mu\text{Ci/sec}$$

$$\text{_____ } \mu\text{Ci/cc} \times \text{_____ cc/sec} = \text{_____ } \mu\text{Ci/sec}$$

Note: 1.0 CFM = 472 cc/Sec

Prepared by _____ Date _____

Reviewed by _____ Date _____

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A
Rev. 0
61 of 99

**Attachment 3
Radiological Releases**

(Sheet 7 of 11)

Section 3 – Release Calculations (Con't)

UNPLANNED OR UNMONITORED LIQUID RELEASE

1.

$$\Sigma \left(\frac{\text{Individual Isotope Activity in } \mu\text{Ci/ml} \times \text{Source Flow Rate (GPM)}}{\text{Source Plus Dilution Flow Rate (GPM)} + \text{Isotope's MPC Value in } (\mu\text{Ci/ml})-(\text{MPC})} \right) = \# \text{ of MPCs}$$

$$\Sigma (\text{_____ } \mu\text{Ci/ml} \times \text{_____ GPM} \div \text{_____ GPM} \div \text{_____ } (\mu\text{Ci/ml})-(\text{MPC})) = \text{_____ MPCs}^*$$

* Sum of all MPCs must be less than 1.0. Effluent limits are still based on MPCs, not ECs.

OR

$$\# \text{ of MPCs} \times \frac{\text{Source Flow Rate (GPM)}}{\text{Source Plus Dilution Flow Rate (GPM)}} = \# \text{ of MPCs}$$

$$\text{_____ MPCs} \times \text{_____ GPM} \div \text{_____ GPM} = \text{_____ MPCs}$$

2.

$$\text{Total Concentration } (\mu\text{Ci/ml}) \text{ (Excluding Tritium \& Gases)} \times \text{Volume Discharged (ml)} \times \frac{10^{-6} \text{ Curies}}{\mu\text{Ci}} = < 1 \times 10^{-3} \text{ Curies}$$

$$\text{_____ } \mu\text{Ci/ml} \times \text{_____ ml} \times \frac{10^{-6} \text{ Curies}}{\mu\text{Ci}} = \text{_____ Curies (excluding H-3)}$$

$$\text{Tritium Concentration } (\mu\text{Ci/ml}) \times \text{Volume Discharged (ml)} \times \frac{10^{-6} \text{ Curies}}{\mu\text{Ci}} = < 5 \text{ Curies}$$

$$\text{_____ } \mu\text{Ci/ml} \times \text{_____ ml} \times \frac{10^{-6} \text{ Curies}}{\mu\text{Ci}} = \text{_____ Curies of H-3}$$

Prepared by _____ Date _____

Reviewed by _____ Date _____

**Level of Use
General**

STOP

THINK

ACT

REVIEW

EPIP 4400A
Rev. 0
62 of 99

Attachment 3
Radiological Releases
(Sheet 8 of 11)

Section 4 – EPA Reportable Releases

NOTE

Any release within technical specifications limits will not exceed 40CFR302 limits.

The following releases are reportable to the National Response Center per 40CFR302:

A. Radioactive Release or Spill

Radioactive release or spill to the environment or permeable land surface which is not in accordance with a permit, unit license, technical specifications or regulations and is greater than or equal to the Reportable Quantity (RQ).

B. Lost Radioactive Source

The discovery of lost, discarded or abandoned sources of radionuclides greater than or equal to the RQ.

C. Reportable Quantities

1. Reporting Requirements for Mixtures of Known Compositions

$$\sum_i \left[\frac{C_i}{RQ_i (C_i)} \right] \geq 1$$

2. Reporting Requirements for Mixtures of Unknown Composition

a. Identity Known But Amount of Individual Nuclides Unknown

$$\frac{\text{Total Activity (Ci) Released}}{RQ_i (Ci)^{***}} \geq 1$$

*** where the RQ for the mixture shall be the lowest RQ of any radionuclide in the mixture

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A
Rev. 0
63 of 99

Attachment 3
Radiological Releases
(Sheet 9 of 11)

Section 4 – EPA Reportable Releases (Cont'd)

NOTE

I-131 has the lowest RQ = 0.01 Ci of the nuclides from nuclear power plant.

b. Identity of Radionuclides in the Release Unknown

Total Activity (Ci) Released \geq 1 Curie

OR

Total Activity (Ci) Released \geq 1 RQ (Ci)***

*** where RQ is the lowest RQ of any known radionuclide in the mixture

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A
Rev. 0
64 of 99

Attachment 3
Radiological Releases
(Sheet 10 of 11)

Section 5 – Radionuclide Reportable Quantities – RQ (Ci)

GAS		IODINE		PARTICULATE	
Ar 41	10	I 131	0.01	Ag 110m	10
Kr 85	1000	I 132	10	Ba 140	10
Kr 85m	100	I 133	0.01	Ce 141	10
Kr 87	10	I 134	100	Ce 144	1
Kr 88	10	I 135	10	Cs 134	1
Xe 131m	1000			Cs 136	10
Xe 133	1000			Cs 137	1
Xe 133m	1000			Co 57	100
Xe 135	100			Co 58	10
Xe 135m	10			Co 60	10
				Cr 51	1000
				Fe 55	100
				Fe 59	10
				La 140	10
				La 141	1000
				Mo 99	100
				Mn 54	10
				Na 24	10
				Nb 95	10
				Nb 97	100
				Rb 88	1000
				Ru 103	10
				Ru 106	1
				Sr 89	10
				Sr 90	0.1
				Sr 92	100
				Sb 124	10
				Sb 125	10
				Tc 99m	100
				Y 88	10
				Y 93	1000
				Zn 65	10
				Zr 95	10

Refer to 40CRF302.4 for RQs of isotopes not listed.

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
65 of 99

Attachment 3
Radiological Releases

(Sheet 10 of 11)

Section 6 – Maintenance Operations

The following is a generic listing of normal or expected maintenance or operation activities which may increase the release rate of gaseous radioactivity from the plant stack(s).

- A. Activities which may increase gaseous activity levels in the primary coolant (Although not the cause of the release, primary coolant levels contribute to the relative rate of the release and hence, an increase in coolant levels may result in a corresponding increase in release rates).
1. Increasing power level.
 2. Decreasing power level.
 3. Reactor scrams or trips.
 4. Changing control rod patterns.
- B. Scheduled activities which cause a direct release of gaseous activity from a closed volume.
1. Purging or venting the containment or drywell.
 2. Waste Gas Decay Tank releases.
 3. Taking a sample from the primary coolant or other radioactive systems.
 4. Performing special tests using radioactive tracer gases or calibration gases.
 5. Venting the reactor head.
 6. Opening up and/or venting primary loops or pressurizer (PWR).
 7. Opening up and/or venting a radioactive tank or pipe for maintenance purposes.
 8. Filling and venting a radioactive tank or pipe after maintenance.
- C. Normal operation activities which potentially increase release rates.
1. Increasing ventilation flow rates.
 2. Adding water to radioactive tanks which displaces gases through tank vents.
 3. Sluicing, transferring or regenerating spent resins.
 4. Sweeping VCT to Waste Gas System (PWR).
 5. Letdown of the reactor coolant system to the clean liquid radwaste system (PWR).
 6. Degasification (PWR).
 7. Changing from augmented off gas treatment system to the original hold up pipe. (BWR)
 8. Operation of the mechanical vacuum pump. (BWR)
 9. Purging off gas lines with station air (BWR).

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

66 of 99

Attachment 3
Radiological Releases
(Sheet 11 of 11)

Section 6 – Maintenance Operations (Cont'd)

10. Routine activities that affect hot well level or condenser vacuum (BWR). For example, cycling circulating water pumps or feedwater heater level control oscillations.
 11. Introduction of air or dissolved oxygen into the condensate system by placing a condensate demineralizer in service or on recycle (BWR).
- D. Expected system conditions resulting in increased release rates.
1. Minor valve packing leaks in any radioactive system. Gross failures of valve packing are not expected.
 2. Minor pump seal leaks in any radioactive system. Gross failures of pump seals are not expected.
 3. Increased secondary side activity as indicated by increases in the condenser air ejector monitor or steam generator blowdown monitor at levels less than those corresponding to 0.1 gpm primary to secondary leakage.
- E. Activities that change indicated release rates (i.e., monitor response), but not actual release rates.
1. Decreasing ventilation flow rates (release rates in uCi/sec will not increase, but since decreasing flows may increase release concentrations, the monitors, which detect uCi/cc, may increase).
 2. Effluent monitor "source check" surveillance.
 3. Sampler flow rate changes.
 4. Increases in ambient background levels at effluent monitor location.
 5. Spurious electrical signal in monitor channel.

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A
Rev. 0
67 of 99

Attachment 4
Reportable Quantity (RQ) of Hazardous Substances

(Sheet 1 of 7)

- A. The RQ thresholds that are listed below do not apply for spills that discharge to receiving water. Any amount spilling to water may be reportable.
- B. This form lists only some of the hazardous substances listed in 40CFR302.4 (Table 302.4). If a chemical product that is not listed on this form spills at Millstone, consult a unit Environmental Coordinator to determine if the product has a Reportable Quantity (RQ).
- C. The RQs listed refer to 100% of pure product. See Table 1 for conversion factors for common station commercial products.
- D. The designation EHS indicates the material is considered an extremely hazardous substance under SARA regulations.

NOTE

1. RQs are defined for a release within a 24 hour period.
2. Amounts shown are exact calculations. Reported amounts may be measured, rounded or estimated.

TABLE 1

PRODUCT NAME (AS PURCHASED)	NURQ OF COMMERCIAL PRODUCT		FED RQ OF COMMERCIAL PRODUCT	
	LBS.	GAL.	LBS.	GAL.
Hydrazine (as 35%)	2.86	.336	2.86	.336
Sodium hydroxide (as 50%)	100	7.8	2,000	156
Sodium hypochlorite (as 12.5%)	80	7.94	800	79.4
Sulfuric acid (as 93%)	53.75	3.50	1,075	70.1
Battery acid (as 37%)	135.0	12.45	2,700	249.1
Ammonium hydroxide (as 28%)	357	47.7	3,570	477.3
LCS - 20	166.7	17	667	70.0
LCS - 60	250	27.9	1,000	111.6
Ethanolamine (Protect 7080)	12.5	1.44	N/A	N/A
Sodium Analyzer Reagent (Diisopropylamine)	10	1.41	N/A	N/A
Chloride Analyzer Reagent (Formic acid)	117.6	14	5,880	705
Sodium Analyzer Reagent (Monoethylamine)	30	3.63	300	36.3
Hydrochloric acid (as 36%)	277	28.15	13,850	1,407.5
Nitric acid (as 68%)	73.5	6.3	1,470	126

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A
 Rev. 0
 68 of 99

Attachment 4
Reportable Quantity (RQ) of Hazardous Substances
(Sheet 2 of 7)

PART 1 (Product)

MATERIAL	NORTHEAST UTILITIES RQ (NURQ) LBS	FEDERAL RQ (LBS)
Acetic acid	100	5,000
Acetone	100	5,000
Aluminum sulfate	100	5,000
Ammonia (EHS)	10	100
Ammonium bicarbonate	100	5,000
Ammonium bifluoride	100	100
Ammonium carbonate	100	5,000
Ammonium chloride	100	5,000
Ammonium citrate/dibasic	100	5,000
Ammonium hydroxide (EHS)	100	1,000
Anti-Freeze (Ethylene Glycol)	10 gal	N/A
Asbestos (Friable)	1	1
Calcium hypochlorite*	5	10
Chlorobenzene	10	100
Cooking Oil (Spent)	55 gal	N/A
Diisopropylamine	10	N/A
Dimethylamine	50	1,000
EHC Oil	10 gal	N/A
Ethylenediamine (EHS)	100	5,000

*Discharge of this material within the limitations of the station NPDES permit may result in exceedance of an RQ. Such discharges are exempt from RQ reporting.

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

69 of 99

Attachment 4
Reportable Quantity (RQ) of Hazardous Substances
(Sheet 3 of 7)

MATERIAL	NORTHEAST UTILITIES RQ (NURQ) LBS	FEDERAL RQ (LBS)
Ethylene dichloride	100	100
Ethylene Glycol Monohotyl Ether	10 lbs	N/A
EDTA	100	5,000
Ethanolamine (ETA)	10 lbs	N/A
Ferric chloride	50	1,000
Ferrous chloride	10	100
Ferrous sulfate	50	1,000
Formaldehyde (EHS)	10	100
Formic acid	100	5,000
Gasoline, fuel oil	10 gal	N/A
Hydrazine* (EHS)	1	1
LCS Products (Sodium Nitrite Component)	See Table 1	See Table 1
Mercury (Liquid)	1	1
Mercuric nitrate	5	10
Mercuric thiocyanate	5	10
Methylene chloride (Paint Remover)	50	1,000
M.E.K.(Methyl Ethyl Ketone)	100	5,000
Methyl methacrylate	50	1000
Monethanolamine	10 lbs	N/A
Monoethylamine	10	100
Nitric acid (EHS)	50	1,000
Oil (Includes gasoline, diesel, lube oils, hydraulic oils, EHC oil, and mineral oil)(Does not include PCBs)	10 gal	N/A
Paint Remover (Methylene Chloride Component)	50	1,000
PCB (Polychlorinated Biphenyls)	1	1
PCB Contaminated Oil > 500 ppm	1 gal	1 gal
PCB Contaminated Oil < 500 ppm	10 gal	10 gal
Phosphoric acid	100	5,000

*Discharge of this material within the limitations of the station NPDES permit may result in exceedance of an RQ. Such discharges are exempt from RQ reporting.

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
70 of 99

Attachment 4
Reportable Quantity (RQ) of Hazardous Substances
(Sheet 4 of 7)

MATERIAL	NORTHEAST UTILITIES RQ (NURQ) LBS	FEDERAL RQ (LBS)
Potassium bichromate (Dichromate)	10	10
Potassium chromate	10	10
Potassium hydroxide	50	1,000
Potassium permanganate	10	100
Radioactive Materials		
Sewage	Any release to water	NA
Sodium bichromate (Dichromate)	10	10
Sodium bisulfite	100	5,000
Sodium chromate	10	10
Sodium fluoride	10	1,000
Sodium hydroxide	50	1,000
Sodium hypochlorite*	10	100
Sodium nitrite (CS Component)	25	100
Sodium phosphate, dibasic	100	5,000
Sodium phosphate, tribasic	100	5,000
Sulfuric acid (EHS)	50	1,000
Toluene	50	1,000
Trichloroethane	50	1,000
Trichloroethylene	50	100
Triethylamine	100	100
Trimethylamine	10	1,000
Vegetable Oil	55 gal	N/A
Xylene	50	1,000
Xylenol	50	1,000
Zinc acetate	50	1,000

*Discharge of this material within the limitations of the station NPDES permit may result in exceedance of an RQ. Such discharges are exempt from RQ reporting.

Level of Use
General

STOP

THINK

ACT

REVIEW

EP/IP 4400A
Rev. 0
71 of 99

Attachment 4
Reportable Quantity (RQ) of Hazardous Substances
(Sheet 5 of 7)

PART II (Hazardous/Mixed Wastes)

For hazardous wastes use the following RQs:

MATERIAL	NORTHEAST UTILITIES RQ (NURQ) LBS	FEDERAL RQ (LBS)
Characteristic of (D001) Ignitability	10	100
Characteristic of (D002) Corrosivity	10	100
Characteristic of (D003) Reactivity	10	100
Characteristic of EP Toxicity		
Arsenic (D004)	1	1
Barium (D005)	1	1000
Cadmium (D006)	1	1
Chromium (D007)	1	1
Lead (D008)	1	1
Mercury (D009)	1	1
Selenium (D010)	1	10
Silver (D011)	1	1
Endrin (D012)	1	1
Lindane (D013)	1	1
Methoxychlor (D014)	1	1
Toxaphen (D015)	1	1
2,4-D (D016)	1	100
2,4,5-Tp (D017)	1	100

Level of Use
General

STOP

THINK

ACT

REVIEW

EP/IP 4400A
Rev. 0
72 of 99

Attachment 4
Reportable Quantity (RQ) of Hazardous Substances
 (Sheet 6 of 7)

MATERIAL	NORTHEAST UTILITIES RQ (NURQ) LBS	FEDERAL RQ (LBS)
----------	--------------------------------------	------------------

HAZARDOUS WASTE SOLVENTS BY SPECIFIC WASTE NUMBER

F001

The following spent halogenated solvents used in degreasing:

Tetrachloroethylene	1	1
Trichloroethylene	5	1000
Methylene	5	1000
1,1,1-Trichloroethane	5	1000
Carbon Tetrachloride	5	5000
Chlorinated Fluorocarbons	5	5000

F002

The following spent halogenated solvents and the still bottoms:

Tetrachloroethylene	1	1
Methylene Chloride	5	1000
Trichloroethylene	5	1000
1,1,1-Trichloroethane	5	1000
Chlorobenzene	5	100
1,1,2-Trichloro-1,2,2	5	5000
0-Dichlorobenzene	5	100

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A
 Rev. 0
 73 of 99

Attachment 4
Reportable Quantity (RQ) of Hazardous Substances
(Sheet 7 of 7)

HAZARDOUS WASTE SOLVENTS BY SPECIFIC WASTE NUMBER (Cont'd)

MATERIAL	NORTHEAST UTILITIES RQ (NURQ) LBS	FEDERAL RQ (LBS)
----------	--------------------------------------	------------------

E003

The following non-halogenated solvents and the still bottoms

Xylene	10	1000
Acetone	10	5000
Ethyl Acetate	10	5000
Ethylbenzene	10	1000
Ethyl Ether	10	100
Methyl Isobutyl Ketone	10	5000
n-Butyl Alcohol	10	5000
Cyclohexanone	10	5000
Methanol	10	5000

E005

Toluene	10	100
Methyl Ethyl Ketone (MEK)	10	100
Carbon Disulfide	10	100
Isobutanol	10	100
Pyridine	10	100
Benzene	10	100
2-Ethoxy Ethanol	10	100
2-Nitropropane	10	100

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A
Rev. 0
74 of 99

Attachment 5
Release Exceeding Reportable Quantity Community Right-to-Know
(SARA) Report Form
 (Sheet 1 of 1)

This notification is required by the Community Right-To-Know Law (40CFR355.40). A hazardous substance release meeting the Federal Reportable Quantity has occurred at Millstone Nuclear Power Station.

1	Callers Name:	Title:
2	Organization:	Phone:
3	Incident Date:	Incident Time:
4	Location of Incident: Facility Name: _____ Address: _____	
5	Nature of Incident: <input type="checkbox"/> Traffic Accident <input type="checkbox"/> Explosion <input type="checkbox"/> Spill <input type="checkbox"/> Other <input type="checkbox"/> Release of Material <input type="checkbox"/> Derailment <input type="checkbox"/> Fire	
6	A Release of Hazardous Materials: <input type="checkbox"/> Has Occurred <input type="checkbox"/> Is Ongoing <input type="checkbox"/> Could Occur <input type="checkbox"/> Is Unlikely Duration of release or estimate of termination: _____	
7	The Material is entering the: <input type="checkbox"/> Atmosphere <input type="checkbox"/> Soil <input type="checkbox"/> Roadway <input type="checkbox"/> Nearby Water <input type="checkbox"/> Storm Drains	
8	Name of Material(s) _____ <small>(Placard and identification number if transportation incident)</small> _____ _____ _____	
9	Approximate concentration of regulated hazardous substance in product: _____ %	
10	Quantity of actual hazardous substance spilled: _____ pounds Is spill product Sulfuric Acid, Hydrazine, or Formaldehyde? <input type="checkbox"/> YES <input type="checkbox"/> NO	
11	If yes, state product is an Extremely Hazardous Substance (EHS):	
12	If product is an EHS or is otherwise volatile, provide downwind direction: _____	
13	Material Safety Data Sheet (MSDS) available: <input type="checkbox"/> YES <input type="checkbox"/> NO	
14	Assistance has been requested from: <input type="checkbox"/> Waterford Police Dept. <input type="checkbox"/> Other _____ <input type="checkbox"/> Waterford Fire Dept. <input type="checkbox"/> Assistance not required at this time	

Level of Use
General






EPIP 4400A
 Rev. 0
 75 of 99

Attachment 6 Definition of Engineered Safety Feature Systems

(Sheet 1 of 1)

The following systems have been defined as Engineered Safety Feature (ESF) Systems for Millstone Unit 1. For manual and automatic actuations that occur from initiation instrumentation, reporting to the State of Connecticut and to the NRC per 10CFR50.72 and 10CFR50.73 is required.

- Automatic Pressure Relief
- Feedwater Coolant Injection
- Low Pressure Coolant Injection
- Core Spray
- Isolation Condenser
- Standby Gas Treatment
- Diesel Generator
- Gas Turbine Generator
- Group I Isolation
- Group II Isolation
- Group III Isolation
- Group IV Isolation
- Group V Isolation
- Group VI Isolation
- Group VII Isolation
- Standby Liquid Control*
- Emergency Service Water*

* Denotes manual actuation

Note: Actuation is not reportable if part of a pre-planned test or reactor operation sequence.

Level of Use General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

76 of 99

Attachment 7
Non-Emergency Report Form (NERF)
 (Sheet 1 of 1)

— Please Check Appropriate Boxes —

1	NERF #		
2	This report concerns: <input type="checkbox"/> Millstone Site <input type="checkbox"/> Millstone Unit 1 <input type="checkbox"/> Millstone Unit 2 <input type="checkbox"/> Millstone Unit 3		
3	This is: <input type="checkbox"/> A Radioactive Materials Incident <input type="checkbox"/> A General Interest Event	<input type="checkbox"/> Golf <input type="checkbox"/> Echo	<input type="checkbox"/> Fox
4	This event was determined to be reportable on: <i>(Use military time)</i> Date: At hours:		
5	The following offsite services have been requested: <input type="checkbox"/> Police <input type="checkbox"/> Fire <input type="checkbox"/> Ambulance <input type="checkbox"/> None <input type="checkbox"/> Other		
6	A further report: <input type="checkbox"/> Will be given <input type="checkbox"/> Will not be given		
7	Additional Information: <hr/> <hr/> <hr/> <hr/>		
8	Name: <i>(Person filling out report)</i>		
9	Authorization Signature (Shift Manager) for release of message:	Date:	Time:
10	And is being reported on: <i>(Use military time)</i> Date/Time:		

Level of Use General

STOP THINK ACT REVIEW

EPIP 4400A
 Rev. 0
 77 of 99

Attachment 8
Utility, State, NRC Callback Verification Checklist
 (Sheet 1 of 1)

Part I

1. **ATTEMPT** once to notify the NRC Resident Inspector(s).
 Date: _____ Time: _____ notified.

2. If unable to contact the NRC Resident Inspector(s), **NOTIFY** the NRC Operations Center.
 Date: _____ Time: _____ notified.

Part II

1. **NOTIFY** the NRC Operations Center using one of the following methods:

ENS	NRC Commercial Number	Fax Number
	301-816-5100	301-816-5151
	301-951-0550 (back-up)	

Date: _____ Time: _____ notified.

2. **PERFORM** callback verification within about 30 minutes.
3. **ATTACH** this form to the Non-emergency Report Form.
4. **LOG** NRC communications, as appropriate.

Date: _____ IRF No. _____

REQUIRED CALL IN--(All events)

Position or Agency	Telephone Number	Time-Called	Comments
Waterford Dispatch	Hotline		
Nuclear News Manager	Refer to EPUG 08B		
State DEP (Dispatch)	860-424-3333 860-424-3338		

Level of Use General

STOP

THINK

ACT

REVIEW

EP/IP 4400A
 Rev. 0
 78 of 99

Attachment 9
NRC Event Notification Form
 (Sheet 1 of 2)

NRC EVENT NUMBER: _____

NRC CONTACT (NAME) _____

NOTIFICATION TIME	FACILITY NAME	UNIT	CALLER'S NAME	TELEPHONE NUMBER ()
-------------------	---------------	------	---------------	-------------------------

EVENT TIME (EST OR EDT)	EVENT DATE or IRF#	POWER (%) and MODE BEFORE	POWER (%) and MODE AFTER
-------------------------	--------------------	---------------------------	--------------------------

EVENT CLASSIFICATION	1-Hr Non-Emergency 10 CFR 50.72 (b)(1)	4-Hr Non-Emergency 10 CFR 50.72 (b)(2)
GENERAL EMERGENCY	(i)(A) TS Required S/D	(i) Degrade While S/D
SITE AREA EMERGENCY	(i)(B) TS Deviation	(ii) RPS Actuation (SCRAM)
ALERT	(ii) Degraded Condition	(ii) ESF Actuation
UNUSUAL EVENT	(ii)(A) Unanalyzed Condition	(iii)(A) Safe S/D Capability
50.72 NON-EMERGENCY	(ii)(B) Outside Design Basis	(iii)(B) RHR Capability
PHYSICAL SECURITY (73.71)	(ii)(C) Not Covered by OPs/EOPs	(iii)(C) Control of Rad Release
TRANSPORTATION	(iii) Earthquake	(iii)(D) Accident Mitigation
MATERIAL/EXPOSURE	(iii) Flood	(iv)(A) Air Release > 2 x App B
FITNESS FOR DUTY	(iii) Hurricane	(iv)(B) Liquid Release > 2 x App B
OTHER	(iii) Ice/Hail	(v) Offsite Medical
	(iii) Lightning	(vi) Offsite Notification
	(iii) Tornado	
	(iii) Other Natural Phenomenon	
	(iv) ECCS Discharge to RCS	
	(v) Lost ENS	
	(v) Lost Other Assessment/Comms	
	(v) Emergency Siren INOP	
	(vi) Fire	
	(vi) Toxic Gas	
	(vi) Rad Release	
	(vi) Other Hampering Safe Op.	

Level of Use
General



EPIP 4400A
 Rev. 0
 79 of 99

Attachment 9

NRC Event Notification Form

(Sheet 2 of 2)

DESCRIPTION: (Fill in as available)

1. SYSTEM(S) AFFECTED:

2. ACTUATIONS & THEIR INITIATION SIGNALS:

3. CAUSES (IF KNOWN):

4. EFFECT OF EVENT ON PLANT:

5. ACTIONS TAKEN OR PLANNED:

6. ADDITIONAL INFORMATION:

NOTIFICATIONS	YES	NO	WILL BE	ANYTHING UNUSUAL OR NOT UNDERSTOOD?	YES (EXPLAIN ABOVE)	NO
NRC RESIDENT				DID ALL SYSTEMS FUNCTION AS REQUIRED?	YES	NO (EXPLAIN ABOVE)
STATE				MODE OF OPERATION UNTIL CORRECTED:		
LOCAL				ESTIMATED RESTART DATE:		
OTHER GOV AGENCIES						
MEDIA/PRESS RELEASE						

RADIOLOGICAL RELEASES: CHECK OR FILL IN APPLICABLE ITEMS

LIQUID RELEASE	GASEOUS RELEASE	UNPLANNED RELEASE	PLANNED RELEASE	ONGOING	TERMINATED
MONITORED	UNMONITORED	OFFSITE RELEASE	T. S. EXCEEDED	RM ALARMS	AREAS EVACUATED
PERSONNEL EXPOSED OR CONTAMINATED		OFFSITE PROTECTIVE ACTIONS RECOMMENDED		State release path in description	

	Release Rate (Ci/sec)	%T.S. LIMIT	HOO GUIDE	Total Activity	% T.S. LIMIT	HOO GUIDE
Noble Gas			0.1 Ci/sec			1000 Ci
Iodine			10 µCi/sec			0.01 Ci
Particulate			1 µCi/sec			1 mCi
Liquid (excluding tritium & dissolved noble gases)			10 µCi/min			0.1 Ci
Liquid (tritium)			0.2 Ci/min			5 Ci
Total Activity						

	PLANT STACK	CONDENSER/AIR EJECTOR	MAIN STEAM LINE	SG BLOWDOWN
RAD MONITOR READINGS:				
ALARM SETPOINTS				
% T.S. LIMIT (if applicable)				

RCS OR SG TUBE LEAKS: CHECK OR FILL IN APPLICABLE ITEMS:

LOCATION OF THE LEAK (e.g., SG#, valve, pipe, etc):

LEAK RATE:	UNITS gpm/gpd	T. S. LIMITS:
LEAK START DATE:	TIME:	COOLANT ACTIVITY & UNITS: PRIMARY - SECONDARY -

LIST OF SAFETY RELATED EQUIPMENT NOT OPERATIONAL:

SM/DSEO Signature : _____ Time: _____

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
80 of 99

Attachment 10
Alternate FAX Notifications Telephone Numbers
 (Sheet 1 of 1)

IF ENRS is *not* operational, manually FAX notifications to the following State and Local Officials in the order listed:

STATE AND LOCAL OFFICIALS FAX NUMBERS		
Town	Fax Number	Contacted (✓)
Waterford	Hotline or 443-3651	<input type="checkbox"/> Yes <input type="checkbox"/> No
State of Connecticut		
State DEP	860-566-6032	<input type="checkbox"/> Yes <input type="checkbox"/> No
State OEM/EOC	860-247-0664	<input type="checkbox"/> Yes <input type="checkbox"/> No
State of New York		
Suffolk County, NY	516-345-3232	<input type="checkbox"/> Yes <input type="checkbox"/> No

Level of Use General

STOP THINK ACT REVIEW

EPIP 4400A
 Rev. 0
 81 of 99

Attachment 11
Additional Notifications Checklist
(Sheet 1 of 9)

NOTE

Primary points of contact and sources of phone numbers are shown below.
Telephone numbers are available in EBUG 08B.

EVENT INSTRUCTION

- | | |
|---|--|
| 1 | <u>Theft or Loss of Licensed Materials</u>
Refer To <u>HPS 9500</u> , "Loss of Licensed Non-Exempt Radioactive Sources"
Required:
— a. Unit Radiation Protection Supervisor |
| 2 | <u>Radioactive Materials Transportation Accident</u>
Refer To <u>RW 46049</u> , "Radioactive Materials Transport Accident"
Required:
— a. Radioactive Materials Handling Supervisor |
| 3 | <u>Transport of Contaminated Injured Person</u>
Refer To <u>COP-204</u> , "Response to Medical Emergencies" (Contaminated/Injured Person Off-site)
Required:
— a. Site Fire Protection personnel (EMTs)
— b. Health Physics Technician
— c. Security Shift Supervisor
— d. Waterford Ambulance (911)
— e. Lawrence and Memorial Hospital List
— f. Middlesex Hospital List (Alternate for multiple [more than 7] casualties)
— g. Yale New Haven Hospital List |

!

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
82 of 99

Attachment 11
Additional Notifications Checklist
(Sheet 2 of 9)

EVENT INSTRUCTION

4 Oil Spill to Receiving Water

Refer To C-OP 200.5, "Oil, Hazardous Material, Hazardous Waste and Mixed Waste Contingency Plan"

Required:

- a. Site Fire Protection—Hazardous Material Response Team
- b. Unit Chemistry Supervision
- c. Unit Environmental Coordinator or Manager of Environmental Services—Nuclear
- d. Millstone Environmental Laboratory (EPUG-08B)
- e. DEP Oil and Chemical Spill Division list (EPUG-08B)
- f. If oil was spilled to wetlands only; Waterford Conservation Commission (EPUG-08B)
- g. Coast Guard, New London. When contacting the Coast Guard, inform them that any correspondence must be forwarded to the Vice President, Northeast Nuclear Energy Co. P.O. Box 128, Waterford, CT. 06385 (EPUG-08B)
- h. National Response Center (EPUG 08B)
- i. Millstone Waste Services Department
- j. Waterford Emergency Communications Center. Provide information contained in Attachment 5 to Dispatcher. Verbally request Dispatcher contact Waterford Health Dept. to evaluate if shell fish beds need to be closed. [♣ Ref. 6.1.9]
- k. If oil was released through NPDES pathway, DEP Bureau of water management (Call made by Manager of Environmental Service—Nuclear or Designee)
- l. Manager Site Services

As needed:

- m. Cleanup Contractors (EPUG-08B)
- n. State of Connecticut Emergency Assistance

Level of Use General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
83 of 99

Attachment 11
Additional Notifications Checklist
(Sheet 3 of 9)

EVENT INSTRUCTION

5 **Oil Spill Onto Land Surfaces >10 Gal.** (No release to waterway) (Not reportable to NRC and State DEP Monitoring and Radiation Control Division)

Refer To C-OP 200.5, "Oil, Hazardous Material, Hazardous Waste and Mixed Waste Contingency Plan"

Required:

- a. Site Fire Protection—Hazardous Material Response Team
- b. Unit Chemistry Supervision
- c. Unit Environmental Coordinator or Manager of Environmental Services—Nuclear
- d. If oil is known to contain PCBs; Construction Test and Maintenance Section
- e. DEP Oil and Chemical Spill Division
- f. Millstone Waste Services Department
- g. Manager Site Services

As needed:

- h. Millstone Environmental Laboratory or (EPUG-08B)
- i. Cleanup Contractors (EPUG-08B)

!

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
84 of 99

Attachment 11
Additional Notifications Checklist
(Sheet 4 of 9)

EVENT INSTRUCTION

6 **Oil Leakage from Underground Storage Tank (Not reportable to NRC and State DEP Monitoring and Radiation Control Division)**
Refer To C-OP 200.5, "Oil, Hazardous Material Hazardous Waste and Mixed Waste Contingency Plan"

Required:

- a. Site Fire Protection—Hazardous Material Response Team
- b. Unit Chemistry Supervision
- c. Waterford Fire Marshal
- d. DEP Oil and Chemical Spill Division
- e. Manager Environmental Services—Nuclear
- f. Manager Site Services

As needed:

- g. Waste Services Department
- h. NU Environmental Emergency Assistance (Request personnel with underground tank expertise)
- i. Cleanup Contractors (EPUG-08B)

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
85 of 99

Attachment 11
Additional Notifications Checklist
(Sheet 5 of 9)

EVENT INSTRUCTION

- 7 Chemical or Hazardous Material (Not Oil) Release (Spill) (Quantity spilled exceeds Federal RQ)
Refer To C-OP 200.5, "Oil, Hazardous Material Hazardous Waste and Mixed Waste Contingency Plan"
Required:
- a. Site Fire Protection—Hazardous Material Response Team
 - b. Unit Chemistry Supervision
 - c. Unit Environmental Coordinator or Manager of Environmental Services—Nuclear
 - d. If spill is related to the transporting vendor, call vendor number
 - e. DEP Oil and Chemical Spill Division
 - f. If product was released through NPDES pathway; DEP Bureau of Water Management (Call made by Manager of Environmental Services—Nuclear or Designee)
 - g. National Response Center (EPUG 08B)
 - h. If spill was discharged to receiving water; New London Coast Guard
 - i. Waterford Emergency Communications Center. Provide information contained in EPIP 4400A, Attachment 5 to Dispatcher. Verbally request Dispatcher contact Waterford Health Dept. to evaluate if shell fish beds need to be closed. [♣ Ref. 6.1.9]
 - j. Waste Services Department
 - k. Manager Site Services
- As needed:
- l. Millstone Environmental Laboratory (EPUG-08B)
 - m. Cleanup Contractors (EPUG-08B)
 - n. Local Community Emergency Assistance (Request thru Waterford hotline, only if assistance is needed)

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
86 of 99

Attachment 11
Additional Notifications Checklist
(Sheet 6 of 9)

EVENT INSTRUCTION

8 Chemical, Sewage, or Hazardous Material (Not Oil) Release (Spill) (Quantity spilled is less than the Federal RQ) (Not reportable to NRC and State DEP Monitoring and Radiation Control Division)

— Refer To C-OP 200.5, "Oil, Hazardous Material Hazardous Waste and Mixed Waste Contingency Plan"

Required:

- a. Site Fire Protection—Hazardous Material Response Team
- b. Chemistry Supervision
- c. If spill is related to the transporting vendor, call vendor number
- d. Waterford Emergency Communications Center. Verbally request Dispatcher contact Waterford Health Dept. to evaluate if shell fish beds need to be closed. [☛ Ref. 6.1.9]
- e. DEP Oil and Chemical Spill Division
- f. If product was released through NPDES pathway; DEP Bureau of Water Management. (Call made by Manager of Environmental Services—Nuclear or Designee)
- g. Manager of Environmental Services—Nuclear
- h. Waste Services Department
- i. Manager Site Services

As needed:

- j. Millstone Environmental Laboratory (EPUG-08B)
- k. Cleanup Contractors (EPUG-08B)
- l. Local Community Emergency Assistance (Request thru Waterford hotline, only if assistance is needed)

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
87 of 99

Attachment 11
Additional Notifications Checklist
(Sheet 7 of 9)

EVENT INSTRUCTION

9 **NPDES Reportable Event** (Meets reportability criteria specified in Attachment 1) (Not reportable to NRC and State DEP Monitoring and Radiation Control Division)

Required:

- a. Unit Environmental Coordinator or Manager of Environmental Services—Nuclear
- b. Affected unit Chemistry Supervision

NOTE

Prior to making a call to the DEP Bureau of Water Management, Environmental Services—Nuclear must notify the control room when the call will be made. This is to allow for timely notifications to other off-site agencies.

- c. DEP Bureau of Water Management (NPDES Administrator) (Call made to the DEP only during daytime business hours by the Manager of Environmental Services—Nuclear or Designee)
- d. If the NPDES reportable event is for notification of Bypassing a Treatment Facility and event occurs during off hours, call the DEP Oil and Chemical Spill 24 hour dispatch number
- e. If hazardous material was spilled to an NPDES pathway, call DEP Oil and Chemical Spill Division.
- f. Manager Site Services

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
88 of 99

Attachment 11
Additional Notifications Checklist
(Sheet 8 of 9)

EVENT INSTRUCTION

10 Non-Spill Related Environmental Event (Fish kill or significant environmental event related to station operation)
Required:

- a. Manager Environmental Services—Nuclear
- b. Millstone Environmental Laboratory (EPUG-08B)
- c. If fish kill; DEP Bureau of Water Management
- d. If recommended by Environmental Laboratory, other DEP and EPA divisions
- e. DEP Bureau of Water Management (Call made by Manager of Environmental Services—Nuclear or Designee)

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
89 of 99

Attachment 11
Additional Notifications Checklist
(Sheet 9 of 9)

EVENT INSTRUCTION

11 Security Event (Bomb threat etc.)

Refer To C-OP 200, "Response to Security Events"

Required:

___ a. Security Shift Supervisor (SSS).

As needed:

___ b. Station personnel using paging system

___ c. Waterford Police Department

___ d. Waterford Fire Department

___ e. Federal Bureau of Investigation

___ d. Site Fire Protection

12 Significant Fitness for Duty Event

Refer To "Fitness for Duty Manual"

Required:

___ a. NRC Resident Inspector

___ b. Nuclear News Manager

13 Reportable Quantity (RQ) Radioactive Material Release to the Environment

Required:

___ a. Manager of Environmental Services-Nuclear

___ b. Unit Chemistry Supervision

___ c. If release is to water, notify the Waterford Emergency Communications Center. Verbally request Dispatcher contact Waterford Health Dept. to evaluate if shell fish beds need to be closed. [* Ref. 6.1.9]

___ d. If release was due to a spill or unintended or uncontrolled release, call the DEP Oil & Chemical Spill Division.

___ e. If NRC reportable quantity was released through an NPDES pathway; DEP Bureau of water Management. (Call made by Manager of Environmental Services-Nuclear or Designee)

___ f. Manager Site Services

___ g. If release exceeds the Federal RQ, notify the National Response Center (EPUG08B)

Level of Use
General

STOP THINK ACT REVIEW

EP/IP 4400A
Rev. 0
90 of 99

Attachment 12
Non – Emergency Report Form
(Significant Fitness for Duty Event)
 (Sheet 1 of 1)

– Please Check Appropriate Boxes –		
1	NERF #	
2	This report concerns: <input type="checkbox"/> Millstone Site <input type="checkbox"/> Millstone Unit 1 <input type="checkbox"/> Millstone Unit 2 <input type="checkbox"/> Millstone Unit 3	
3	This is: <input type="checkbox"/> A Radioactive Materials Incident <input type="checkbox"/> A General Interest Event	<input type="checkbox"/> Golf <input type="checkbox"/> Fox <input type="checkbox"/> Echo
4	This event was determined to be reportable on: <i>(Use military time)</i> Date: At hours:	
5	The following offsite services have been requested: <input type="checkbox"/> Police <input type="checkbox"/> Fire <input type="checkbox"/> Ambulance <input type="checkbox"/> None <input type="checkbox"/> Other	
6	A further report: <input type="checkbox"/> Will be given <input type="checkbox"/> Will not be given	
7	Additional Information: <hr/> <p align="center">An event involving the Fitness for Duty Program is being reported.</p> <hr/> <p align="center">Specific details of the event are not for public disclosure.</p> <hr/> <p align="center">Appropriate action has been taken.</p> <hr/>	
8	Name: <i>(Person filling out report)</i>	
9	Authorization Signature (Shift Manager) for release of message:	Date: Time:
10	And is being reported on: <i>(Use military time)</i> Date/Time:	

Level of Use General

STOP THINK ACT REVIEW

EPIP 4400A
 Rev. 0
 91 of 99

Attachment 13
Significant Fitness For Duty Event Notification
(Sheet 1 of 1)

NRC NOTIFICATION:

This is _____ from the Millstone Nuclear Power Station. I am reporting a 10CFR26.73, significant fitness for duty event.

1. The event consisted of:

____ The sale, use or possession of illegal drugs within the protected area and did not involve licensed operator or supervisory personnel.

____ (Skip to Item 3.)

2. The event involved:

____ An individual licensed under 10CFR part 55 to operate a power reactor.

____ Company supervisory personnel assigned to perform duties within the scope of 10CFR part 26.73.

2.1 The event consists of:

____ The sale, use or possession of a controlled substance.

____ Confirmed positive controlled substance use test.

____ Use of alcohol within the protected area.

____ Determination of unfitness for scheduled work due to the consumption of alcohol.

3. Local law enforcement agencies have been notified (for sale, use or possession of illegal drugs within the protected area).

4. The NRC Resident Inspector has been notified.

5. The State of Connecticut has been notified as a General Interest Event.

6. The individual's access to the protected area has been revoked.

Signature: _____ Time: _____
SM

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

92 of 99

Attachment 14
Incident Description Examples
(Sheet 1 of 1)

REPORTABLE EVENT	INCIDENT CLASSIFICATION	NRC REPORTING REQUIREMENT	INCIDENT DESCRIPTION (Suggested – may be modified if required).
FITNESS FOR DUTY	ECHO	10CFR26.73	An event involving the fitness for duty program is being reported. specific details of the event are not for public disclosure. Appropriate action has been taken.
SECURITY EVENT	ECHO	50.72(b)(1)(iii) 50.73(a)(2)(iii)	A security event has occurred. The event contains safeguards information. Appropriate action has been taken.
OIL SPILL	ECHO	50.72(b)(2)(vi)	Approximately ____ gallons of ____ oil has spilled to/onto _____. The spill is contained and is being cleaned up by onsite personnel.
CONTAMINATED INDIVIDUAL	ECHO	50.72(b)(2)(v)	An injured contaminated individual is being transported to Lawrence & Memorial Hospital for treatment.
RPS TRIP	ECHO	50.72(b)(2)(ii)	1) The unit has tripped upon automatic actuation of the Reactor Protection System. 2) During routine surveillance testing, the unit tripped upon automatic actuation of the Reactor Protection System.
ESF ACTUATION	ECHO	50.72(b)(2)(ii)	Plant conditions have resulted in the (automatic/manual) actuation of an Engineered Safety Feature.
TECH SPEC SHUTDOWN	ECHO	50.72(b)(1)(i)	A plant shutdown has been initiated as required by Technical Specifications.
UNSCHEDULED S/D >48 HOURS	ECHO	50.72(b)(2)(vi)	The current plant shutdown is expected to last greater than 48 hours.
SCHEDULED S/D >72 HOURS	ECHO	50.72(b)(2)(vi)	The plant is shutting down for refueling/maintenance. The scheduled shutdown is expected to last greater than 72 hours.
OUTSIDE DESIGN BASIS	ECHO	50.72(b)(1)(ii)	Certain equipment has been discovered to be outside the design basis.
DEGRADED SAFETY SYSTEM	ECHO	50.72(b)(2)(iii)	A condition has been discovered that could have prevented a safety system from functioning as required.
DEGRADED EQUIP WHILE SHUTDOWN	ECHO	50.72(b)(2)(i)	1) While the reactor was shutdown, certain equipment was found to be in an unanalyzed condition. 2) While the reactor was shutdown, certain equipment was found to be in a degraded condition.

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4400A
Rev. 0
93 of 99

Attachment 15

Preparing and Transmitting a Non-Emergency Report Form (NERF)

(Sheet 1 of 5)

1. Logging on to RapidReach

- 1.1 OPEN "RapidReach Primary" folder.
- 1.2 DOUBLE CLICK on "RapidReach" icon.
- 1.3 At "RapidReach login" screen, SELECT "Shift Tech" as user and SELECT "OK."
- 1.4 At "Password" screen, ENTER password and SELECT "OK."
- 1.5 IF "RapidReach Primary" is *not* operable, OPEN "RapidReach Secondary" folder and Go To step 1.2.
- 1.6 WHEN "OverView" screen appears, MINIMIZE screen.

2. Logging on to EasyView

- 2.1 DOUBLE CLICK on "EasyView" screen.
- 2.2 At "EasyView" screen, SELECT "Shift Tech" as user and SELECT "OK."
- 2.3 At "Password" screen, ENTER password and SELECT "OK."
- 2.4 WHEN "EasyView" screen appears, MINIMIZE screen.

3. Transmitting a Message using EasyView Remote Capability

- 3.1 SELECT phone link icon from "RapidReach Primary" or "RapidReach Secondary" folder.
- 3.2 OPEN "EasyView Remote" icon.
- 3.3 SELECT "Shift Tech" as user and SELECT "OK."
- 3.4 At "Password" screen, ENTER password and SELECT "OK."
- 3.5 On "EasyView" screen, SELECT appropriate scenario from menu.
- 3.6 SELECT "lightning bolt" icon.
- 3.7 WHEN "Start of Scenario" screen appears, SELECT "Set Common Message."

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

94 of 99

Attachment 15

Preparing and Transmitting a Non-Emergency Report Form (NERF)

(Sheet 2 of 5)

- 3.8 At "Root" tree, SELECT appropriate message (i.e., "Emergency Call-outs," Golf, Fox, Echo etc.)
- 3.9 SELECT "OK."
- 3.10 WHEN "Start of Scenario" screen appears, SELECT "Start."
- 3.11 VERIFY page sent by monitoring "EasyView" screen.
4. Entering IRF Data into ENRS
 - 4.1 DOUBLE CLICK on "Form" icon.
 - 4.2 ENTER event information into NERF template.
 - 4.3 SELECT appropriate printer name and SELECT "OK."
 - 4.4 PRINT NERF and VERIFY information is correct.
 - 4.5 IF information on IRF printout is *not* correct, EDIT template and PRINT NERF.
 - 4.6 SAVE NERF.

NOTE

Saving the NERF form to "Print-to-Image" attaches the fax to the radiopager message.

- 4.7 PERFORM the following to save NERF image for fax and radiopaging purposes:
 - a. SELECT "File" and SELECT "Print."
 - b. SELECT "Print-2-Image," and SELECT "OK."
 - c. SELECT appropriate setup from "Select configuration" box.
 - d. SELECT "OK."
 - e. CLICK on "Root" tree folder in "Select message to fax," screen.
 - f. SELECT appropriate information from Root tree. (e.g., "Emergency Call-out," Golf, Fox, Echo, etc.)
 - g. WHEN all selections are complete, SELECT "OK."
- 4.8 MINIMIZE NERF form, as necessary.

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

95 of 99

Attachment 15

Preparing and Transmitting a Non-Emergency Report Form (NERF)

(Sheet 3 of 5)

5. Recording NERF Data into ENRS

5.1 MAXIMIZE "RapidReach" screen and SELECT "microphone" icon (Show Message Window).

5.2 DOUBLE CLICK on "Root" tree.

NOTE

"Informational Message" is selected when recording NERF data.

5.3 SELECT "Informational Message."

5.4 Under "Audio Message," SELECT "microphone" icon.

5.5 WHEN "Record" screen appears, SELECT "Rec" button.

5.6 After recording entire NERF, SELECT "Stop."

5.7 SELECT "Play" and VERIFY recorded information is all of the following:

- correct
- clear
- audible

5.8 IF step 5.7 is *not* true, Go To step 5.5.

5.9 SELECT "OK."

5.10 OBTAIN SM signature on written NERF.

5.11 MINIMIZE "RapidReach" screen.

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

96 of 99

Attachment 15

Preparing and Transmitting a Non-Emergency Report Form (NERF)

(Sheet 4 of 5)

6. Transmitting NERF Message

6.1 SELECT "EasyView" screen and SELECT appropriate scenario from menu.

6.2 SELECT "lightning bolt" icon.

6.3 WHEN "Start of Scenario" appears, SELECT "Set Common Message."

6.4 At "Root" tree, SELECT appropriate message (i.e., "Emergency Call-outs," Golf, Fax, Echo, etc.).

6.5 SELECT "OK."

6.6 WHEN "Start of Scenario" screen appears, SELECT "Start."

7. Callback Verification (CV)

NOTE

"Overview" screen will display callout status.

7.1 To verify radiopage sent, MONITOR "EasyView" screen and VERIFY controlled console radiopager activates.

7.2 SELECT "RapidReach" screen and MONITOR callbacks on "Overview" screen.

7.2.1 SELECT most recent scenario number from call-out grid box (the top box).

7.2.2 MONITOR "Individuals in group" box for status and response.

7.3 MONITOR screen as positions call back, acknowledging page.

7.4 To reset printer, SELECT "File" and SELECT "Printer Setup."

7.5 IF necessary, RESET printer selected.

7.6 On "Overview" screen, PRINT "Groups-in-callout" callback verification report.

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

97 of 99

Attachment 15

Preparing and Transmitting a Non-Emergency Report Form (NERF)

(Sheet 5 of 5)

8. Restoration of General Default Message

- 8.1 At "RapidReach" screen, SELECT "Show Message Window" button.
- 8.2 DOUBLE CLICK on "Root" tree.
- 8.3 SELECT "Informational Message."
- 8.4 Under "Audio Message," SELECT "microphone" icon.
- 8.5 WHEN "Record" screen appears, SELECT "Rec" button.
- 8.6 RECORD the following:
 - "There is no information presently available for Millstone Station."
- 8.7 WHEN message has been recorded, SELECT "Stop."
- 8.8 SELECT "Play" and VERIFY recorded information is all of the following:
 - correct
 - clear
 - audible
- 8.9 IF step 8.8 is *not* true, Go To step 8.5.
- 8.10 SELECT "OK."
- 8.11 From "Root" tree, SELECT event message used (i.e., "Emergency Call-out," Golf, Fox, Echo, etc.).
- 8.12 SELECT red subtraction button in fax box on lower right of screen.
- 8.13 SELECT "Yes" to delete and OBSERVE "Same as alpha pager" in fax message box.
- 8.14 SELECT "File" and SELECT "Exit."
- 8.15 CLOSE the following, as necessary:
 - RapidReach window
 - EasyView window
 - NERF form

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A

Rev. 0

98 of 99

Attachment 16
Switching Telephone Lines
(Sheet 1 of 1)

NOTE

If the ENRS primary phone server is down, a communication failure has occurred. Telephone lines will need to be switched to the secondary phone server.

1. **IF** primary system is down, **LIFT** the dedicated ENRS handset.
2. **PRESS** position "G" labelled "Press for SERO transfer."
3. **DIAL** "2724."
4. **WAIT** for confirmation tone (3 beeps).
5. **IF** confirmation tone is *not* heard, Go To step 1.

NOTE

The light will stay on to indicate the successful transfer of telephone lines.

6. **REPLACE** handset and **OBSERVE** light on position "G" illuminates, indicating transfer of SERO telephone lines.
7. **LIFT** the dedicated ENRS handset again.
8. **PRESS** position "I" labelled "Press for State/Local transfer."
9. **OBSERVE** the following:
 - 9.1 Light on position "I" will illuminate for a few seconds and then turn off.
 - 9.2 Light on position "H" will illuminate and stay on, indicating transfer of State/Local lines.
10. **REPLACE** handset.
11. **IF** either **OR** both lights fail to illuminate, Go To step 8.

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4400A
Rev. 0
99 of 99

Docket Nos. 50-245

50-336

50-423

B17947

Attachment 3

Millstone Nuclear Power Station, Unit Nos. 1, 2, and 3

Emergency Plan Operating Procedure 4411, Revision 5
Director of Station Emergency Operations

December 1999

MILLSTONE NUCLEAR POWER STATION
EMERGENCY PLAN OPERATING PROCEDURE



Director of Station Emergency Operations

EPOP 4411

Rev. 5

STOP

THINK

ACT

REVIEW

Approval Date: 9-10-99

Effective Date: 12/16/99

Level of Use
Information

**Millstone All Units
Emergency Plan Operating Procedure**

Director of Station Emergency Operations

TABLE OF CONTENTS

1.	PURPOSE	2
2.	PREREQUISITES	4
3.	PRECAUTIONS	5
4.	INSTRUCTIONS	6
4.1	Procedure Entry Point Determination	6
4.2	Affected Unit Shift Manager/CR DSEO Actions	7
4.3	Station Duty Officer Support Function	11
4.4	EOF DSEO Initial Actions	13
4.5	EOF DSEO Subsequent Actions	15
4.6	De-Escalation, Termination, and Recovery Operations	19
5.	REVIEW AND SIGNOFF	22
6.	REFERENCES	22
7.	SUMMARY OF CHANGES	23
ATTACHMENTS AND FORMS		
	Attachment 1, "DSEO/ADTS Turnover Checklist "	24
	Attachment 2, "De-Escalation of Emergency Classification Checklist"	26
	Attachment 3, "Termination of Emergency Event Checklist"	28
	Attachment 4, "Activation of Recovery Organization Checklist"	30

1. PURPOSE

1.1 Objective

Provide guidance to the Director of Station Emergency Operations for emergency response actions during an emergency event. These actions include the following which cannot be delegated:

CR DSEO

- Event classification (The ADTS relieves the CR DSEO of this responsibility)
- Initiation of station emergency response
- Initiation of on-site personnel protective actions
- Authorization of mitigation and repair activities

CR DSEO and
EOF DSEO

- Command and control of station emergency response
- Approval of off-site Protective Action Recommendations (PARs)
- Approval of on-site evacuation
- Authorization of emergency exposure
- Authorization of off-site notifications

1.2 Discussion

Partial SERO activation is initiated upon declaration of an Unusual Event, Posture Code Delta-One or Delta-Two. The Shift Manager of the affected unit becomes the CR DSEO and activates the on-shift staff only.

This procedure describes the actions of the affected unit Shift Manager/CR DSEO, Station Duty Officer, and EOF DSEO when an emergency event has been declared. It also provides guidance to the EOF DSEO for emergency event de-escalation, termination, and recovery operations.

The Station Duty Officer reports to the affected unit control room and assists the Shift Manager/CR DSEO, as directed, in carrying out delegated duties. The EOF DSEO reports to the Emergency Operations Facility.

Level of Use
Information

STOP THINK ACT REVIEW

EPOP 4411
Rev. 5
2 of 30

The decision to invoke 50.54(x) and 50.54(y) for unit operations is up to the discretion of the Manager of Control Room Operations (MCRO) and shall not be implied or directed by the ADTS. The ADTS may present a strategy or procedure that implements 50.54(x) to the Manager of Control Room Operations for his consideration. The DSEO shall be informed of all actions by the ADTS.

Actions taken under 50.54(x) shall be approved, at a minimum, by a licensed Senior Operator or Certified Fuel Handler before taking the action in accordance with 10CFR50.54(y).

Suspension of safeguards is up to the discretion of the DSEO and requires 50.54 (x) to be invoked.

In situations where 50.54(x) and 50.54(y) are invoked, the NRC shall be notified using the Emergency Notification System within one hour.

2. PREREQUISITES

2.1 General

- 2.1.1 Conditions at one or more of the Millstone Units or at the Millstone Station have deteriorated such that an UNUSUAL EVENT, Posture Code Delta–One or Delta–Two, declaration has occurred or is imminent.

2.2 Documents

- 2.2.1 EPIP 4400, "Event Assessment, Classification, and Reportability"
- 2.2.2 EPIP Form 4400–1, "Unit 1 Emergency Action Level Table"
- 2.2.3 EPIP Form 4400–2, "Unit 2 Emergency Action Level Table"
- 2.2.4 EPIP Form 4400–3, "Unit 3 Emergency Action Level Table"
- 2.2.5 EPIP 4404, "Notifications and Communications"
- 2.2.6 EPOP 4412, "Evacuation and Assembly"
- 2.2.7 EPOP 4417, "Manager of Control Room Operations"
- 2.2.8 EPOP 4425, "Personnel Radiation Exposure Control and Dosimetry Issue During Nuclear Emergencies"
- 2.2.9 EPOP 4428G, "Protective Action Recommendations"

2.3 Definitions

- 2.3.1 Activation – Minimum staffing achieved
- 2.3.2 ADEOF – Assistant Director Emergency Operations Facility
- 2.3.3 ADTS – Assistant Director Technical Support
- 2.3.4 AMRDA – Assistant Manager of Radiological Dose Assessment
- 2.3.5 ENS – Emergency Notification System
- 2.3.6 ERF – Emergency Response Facility
- 2.3.7 KI – Potassium Iodide

Level of Use
Information

STOP THINK ACT REVIEW

EPOP 4411
Rev. 5
4 of 30

- 2.3.8 ST– Shift Technician
- 2.3.9 TIC – Technical Information Coordinator
- 2.3.10 TSC– Technical Support Center
- 2.3.11 APPOINT – To name officially
- 2.3.12 ASSUME – To undertake
- 2.3.13 PAR – Protective Action Recommendation
- 2.3.14 Emergency event – An event classified as an UNUSUAL EVENT, Posture Delta–One or Delta–Two or higher
- 2.3.15 Minimum staff – Positions depicted above the line on the facility staffing board. These positions are unit specific, as applicable.
- 2.3.16 Mission specific exposure limits – Specific exposure limits based on job task assignments for emergency teams members.

3. PRECAUTIONS

N/A

Level of Use
Information

STOP THINK ACT REVIEW

EPOP 4411
Rev. 5
5 of 30

4. INSTRUCTIONS

4.1 Procedure Entry Point Determination

- 4.1.1 IF you are the affected unit Shift Manager/CR DSEO, Go To Section 4.2.
- 4.1.2 IF you are the Station Duty Officer, Go To Section 4.3.
- 4.1.3 IF you are the EOF DSEO, Go To Section 4.4.

– End of Section 4.1 –

Level of Use
Information

STOP

THINK

ACT

REVIEW

EPOP 4411
Rev. 5
6 of 30

4.2 Affected Unit Shift Manager/CR DSEO Actions

NOTE

1. The affected unit Shift Manager/CR DSEO may repeat steps in Section 4.2, as necessary, until relieved by the ADTS and EOF DSEO.
2. In cases where a PAR to the DEP is not required using EPOP 4428G, "Protective Action Recommendations," a pre-determined PAR indicated by the Bravo or Alpha Posture Code will be understood by off-site officials. The Bravo pre-determined PAR consists of an approximate 2 mile radius which is Zone 1. The Alpha pre-determined PAR is an approximate 5 mile radius which is Zones 1 and 2. EPOP 4428G, "Protective Action Recommendations," Attachment 7, describes the PAR zones.

_____ 4.2.1 IF a GENERAL EMERGENCY, Alpha has been declared or is imminent, Refer To and IMPLEMENT EPOP 4428G, "Protective Action Recommendations."

_____ 4.2.2 NOTIFY and BRIEF the following on event in progress:

- Station Duty Officer
- Non-affected unit Shift Managers

NOTE

Classification of the emergency event is performed by the Shift Manager/CR DSEO until relieved by the ADTS.

_____ 4.2.3 CLASSIFY event and ANNOUNCE station pages, as necessary.

Level of Use
Information

STOP THINK ACT REVIEW

EPOP 4411
Rev. 5
7 of 30

NOTE

If radiopager system is not operating as expected, the Shift Technician or Designee can perform backup notification using a special four digit SERO pager ID code and either of the following:

- Phone call to NU paging system to issue numeric event code only
- NU paging system terminal in SAS to issue numeric event code or optional descriptive text message.

_____ 4.2.4 DIRECT Shift Technician to perform State, Town, and SERO notifications.

_____ 4.2.5 NOTIFY Security Shift Supervisor of the following:

- Emergency classification
- Affected unit
- Nature of the emergency
- Increased need for security support, as necessary

_____ 4.2.6 IF an UNUSUAL EVENT has occurred, ANNOUNCE the following using the station paging system:

“AN EVENT CLASSIFICATION _____ [classification] HAS OCCURRED IN _____ [affected unit]” due to _____ [description]. FURTHER INFORMATION WILL BE PROVIDED.”

_____ 4.2.7 IF an UNUSUAL EVENT is being escalated, Go To step 4.2.3 and CLASSIFY event.

_____ 4.2.8 IF conditions which caused classification of the UNUSUAL EVENT have been resolved, TERMINATE the event by issuing a termination IRF and EXIT this procedure.

Level of Use
Information

STOP THINK ACT REVIEW

EPOP 4411
Rev. 5
8 of 30

4.2.9 **IF** an ALERT or higher has occurred, ANNOUNCE the following using the station paging system:

"AN EVENT CLASSIFICATION _____ [classification] HAS OCCURRED IN _____ [affected unit]."

"ALL ON-DUTY STATION EMERGENCY RESPONSE ORGANIZATION PERSONNEL REPORT TO YOUR DESIGNATED EMERGENCY RESPONSE FACILITY."

_____ 4.2.10 REPEAT page.

_____ 4.2.11 **IF** any of the following has occurred, Refer To and IMPLEMENT EPOP 4412, "Evacuation and Assembly:"

- ALERT as defined by the Barrier Failure Reference Table
- SITE AREA EMERGENCY
- GENERAL EMERGENCY

_____ 4.2.12 **IF** radiation release is in progress or is imminent, OBTAIN dose calculation input from the Chemistry Technician.

_____ 4.2.13 **IF** suspension of safeguards is approved, NOTIFY NRC within one hour using the Emergency Notification System .

_____ 4.2.14 EVALUATE radiological conditions and, if necessary, AUTHORIZE exposure increases as follows:

- 5 rem to <25 rem for plant operations
- ≥ 25 rem for life saving situations (volunteer)

NOTE

Logkeeping of classifications and events is essential for accurate assessment and determining sequence of events.

_____ 4.2.15 RECORD authorized exposure in logbook.

Level of Use
Information

STOP

THINK

ACT

REVIEW

EPOP 4411

Rev. 5

9 of 30

NOTE

If possible, briefings to the ADTS and EOF DSEO should be conducted at the same time using Attachment 1.

_____ 4.2.16 WHEN the ADTS is ready to assume TSC/OSC duties, Refer To Attachment 1, and BRIEF ADTS.

_____ 4.2.17 WHEN the EOF DSEO is ready to assume EOF duties and Refer To Attachment 1, BRIEF the EOF DSEO and PERFORM the following:

- LOG turnover of duties.
- RECORD date and time of relief in logbook.
- Go To EPOP 4417, "Manager of Control Room Operations."

— End of Section 4.2 —

4.3 Station Duty Officer Support Function

SDO or
Shift SRO

4.3.1 ASSIST the CR DSEO, as necessary, and PERFORM the following:

- Refer To step 4.2.6 and ISSUE station pages, as directed.
- ASSIST the ST to perform initial notifications.
- ASSIST the ST to call in non – responding agencies, as necessary.
- IF continuous communications to the NRC are required, MAINTAIN the NRC ENS.
- EVALUATE plant conditions and DETERMINE need for the following:
 - On – site sheltering
 - Station access controls
 - Area evacuation
 - Unit evacuation
 - Station evacuation and assembly
- Refer To and IMPLEMENT EPOP 4412, “Evacuation and Assembly,” as necessary.

Level of Use
Information

STOP THINK ACT REVIEW

EPOP 4411
Rev. 5
11 of 30

NOTE

If SERO personnel access to the protected area is restricted due to life-threatening conditions, TSC / OSC personnel report to the EOF.

- **IF** life-threatening conditions exist, **DIRECT** the SSS or MOS to restrict all access to the protected area including SERO personnel.
- **IF** life-threatening conditions do *not* exist, **DIRECT** the SSS or MOS to allow access of SERO personnel into the protected area to staff ERFs.
- **EVALUATE** need for outside agency assistance.
- **IF** outside agency assistance is requested, **NOTIFY** the SSS or MOS to provide escort support to the site for responding vehicles.

- End of Section 4.3 -

**Level of Use
Information**

STOP THINK ACT REVIEW

EPOP 4411
Rev. 5
12 of 30

4.4 EOF DSEO Initial Actions

- _____ 4.4.1 INDICATE presence on EOF Staffing Board.
- _____ 4.4.2 RECORD date and EOF arrival time in logbook.
- _____ 4.4.3 ESTABLISH communications with the CR DSEO in the affected unit control room.

NOTE

SERO activation is within 60 minutes of the time the SERO was notified.

- _____ 4.4.4 Refer To Attachment 1 and REQUEST initial briefing from the CR DSEO on emergency event conditions and plant status.
- _____ 4.4.5 CONDUCT initial briefing of SERO staff and other managers on the following emergency event conditions and plant status, as applicable:
 - _____ • Current event classification (time of trip)
 - _____ • Current conditions in progress (i.e., fire, steam, severe weather)
 - _____ • Projected event conditions
 - _____ • Status of plant and station
 - _____ • Radiological conditions
- _____ 4.4.6 WHEN EOF is minimally staffed, ANNOUNCE facility activation using EOF page.
- _____ 4.4.7 APPOINT individuals to fill SERO vacancies, as required.
- _____ 4.4.8 WHEN ready to assume EOF DSEO duties, NOTIFY the CR DSEO and Refer To and COMPLETE Attachment 1.
- _____ 4.4.9 RELIEVE the CR DSEO and ASSUME the EOF DSEO position.
- _____ 4.4.10 RECORD date and time of relief in logbook.

Level of Use
Information

STOP THINK ACT REVIEW

EPOP 4411
Rev. 5
13 of 30

NOTE

Relief shall be loud, clear, and direct.

_____ 4.4.11 **ANNOUNCE** assumption of EOF DSEO responsibilities, using the station paging system.

_____ 4.4.12 **WHEN** all ERFs are activated, **NOTIFY** SERO managers of activation and **ANNOUNCE** EOF and TSC/OSC activation, using the station paging system.

_____ 4.4.13 **RECORD** time of activation in logbook.

– End of Section 4.4 –

4.5 EOF DSEO Subsequent Actions

NOTE

1. Steps in this section may be repeated, as necessary.
2. Whenever a GENERAL EMERGENCY Posture Code Bravo or Alpha is declared, an off-site Protective Action Recommendation must be forwarded to State officials concurrent with the 15 minute notification.
3. A PAR update must be issued within 15 minutes of the decision to update the PAR.
4. If dose assessment results are not available, PARs shall be based on plant conditions.

_____ 4.5.1 ESTABLISH continuous, open communications with the ADTS.

_____ 4.5.2 IF a GENERAL EMERGENCY is declared or is imminent, DIRECT ADEOF to refer to and implement EPOP 4428G, "Protective Action Recommendations."

_____ 4.5.3 NOTIFY SERO of changing events using EOF page.

_____ 4.5.4 CONSULT with ADTS and ADEOF on status of each unit and station conditions.

_____ 4.5.5 IF conditions change, Refer To EPIP 4400, "Event Assessment, Classification, and Reportability," applicable unit EAL Table and PROVIDE information relevant to EAL classification changes to the ADTS.

_____ 4.5.6 IF classification changes, PERFORM the following:

- DIRECT ADEOF perform initial notifications.
- ANNOUNCE the following using the station page:
 - Classification changes
 - Time of classification
 - Current information regarding event

_____ 4.5.7 REPEAT page.

Level of Use
Information

STOP THINK ACT REVIEW

EPOP 4411
Rev. 5
15 of 30

NOTE

The ADTS and MCRO should be notified prior to approving evacuation.

4.5.8 **IF** any of the following has occurred, Refer To and IMPLEMENT EPOP 4412, "Evacuation and Assembly:"

- ALERT as defined by the Barrier Reference Table
- SITE AREA EMERGENCY
- GENERAL EMERGENCY

NOTE

If access to the protected area is restricted due to life-threatening conditions, SERO personnel report to the EOF.

4.5.9 **IF** life-threatening conditions exist, DIRECT MOS to restrict all access to protected area including SERO personnel.

4.5.10 **IF** life-threatening conditions do *not* exist, DIRECT MOS to allow access of SERO personnel into protected area to staff ERFs.

4.5.11 **IF** suspension of safeguards is approved, NOTIFY NRC within one hour using the Emergency Notification System.

4.5.12 PROVIDE the Executive Spokesperson the following information via the open communications line:

- Status reports on plant and safety systems
- Event classification basis and projections
- The following actions taken at the site:
 - PPADs
 - Evacuation
 - Potassium Iodide usage
- Imminent, ongoing, or terminated radioactive releases

4.5.13 IF outside agency assistance is necessary, DIRECT MOR to contact applicable agency.

4.5.14 IF outside agency assistance is requested, NOTIFY MOS to provide escort support to the site for responding vehicles.

NOTE

The State of Connecticut may assume responsibility at a SAE or GENERAL EMERGENCY for subsequent local agency notifications.

4.5.15 IF a State of Emergency has been declared AND the Governor directs future classification changes and updates to be processed through the State EOC and not released, PERFORM the following:

- a. ENSURE ADEOF does not release update or escalation incident report or develop additional IRF.
- b. ENSURE OEM and DEP have been notified of classification change or update information by Executive Spokesperson.

4.5.16 CONDUCT periodic briefings via staff meetings or EOF page.

4.5.17 IF notified by the ADTS of 50.54(x) changes, DIRECT the MOC to immediately inform the NRC.

Level of Use
Information

STOP THINK ACT REVIEW

- _____ 4.5.18 **IF** emergency exposure increases are warranted for life-saving action, Refer To EPOP 4425, "Personnel Radiation Exposure Control and Dosimetry Issue During Nuclear Emergencies," and AUTHORIZE a limit.
- _____ 4.5.19 **IF** plant conditions stabilize **OR** improve, Go To Section 4.6.
- _____ 4.5.20 **IF** necessary, REPEAT Section 4.5.

– End of Section 4.5 –

Level of Use
Information

STOP THINK ACT REVIEW

EPOP 4411
Rev. 5
18 of 30

4.6 De-escalation, Termination, and Recovery Operations

4.6.1 **EVALUATE** options for downgrading event classification as shown in Table 1.

Table 1 Guidelines for Downgrading Emergencies	
Classifications Corresponding to Improved Plant Conditions	Options
GENERAL EMERGENCY – Bravo SITE AREA EMERGENCY – Charlie–Two ALERT–Charlie–One	No Change or De-escalation or Termination or Recovery
UNUSUAL EVENT Below EAL Threshold	No Change or Termination

NOTE

De-escalation is an option to be used when the emergency condition is still in effect; for example, an ALERT or higher Emergency Action Level classification exists and some benefit is to be gained by declaring a lower classification.

De-escalation is not a preferred option in most cases.

4.6.2 **IF** de-escalation option is selected, **PERFORM** the following:

- a. Refer To and **COMPLETE** Attachment 2.
- b. **NOTIFY** the NRC Site Team Leader or Director of Site Operations and State officials.
- c. **DISCUSS** all conditions and events with the NRC Site Team Leader or Director of Site Operations.

Level of Use
Information

STOP THINK ACT REVIEW

EPOP 4411
Rev. 5
19 of 30

NOTE

Termination is the option to be used when long term damage to the plant has not occurred. In situations involving long term damage to the plant, Recovery is the option to use.

4.6.3 IF Termination option is selected, AND long term damage to the plant has *not* occurred, **PERFORM** the following:

- a. Refer To and **COMPLETE** Attachment 3.
- b. **NOTIFY** the NRC Site Team Leader or Director of Site Operations and State officials.
- c. **DISCUSS** all conditions and events with the NRC Site Team Leader or Director of Site Operations.

NOTE

Recovery is the preferred option in situations involving long term corrective actions to mitigate damage; for example, core damage. The "No Change" option is used until the Recovery Checklist is satisfied.

4.6.4 IF long term damage to the plant has occurred AND Recovery option is selected, **PERFORM** the following:

- a. Refer To and **COMPLETE** Attachment 4.
- b. **NOTIFY** the NRC Site Team Leader and Director of Site Operations and State officials.
- c. **DISCUSS** all conditions and events with the NRC Site Team Leader or Director of Site Operations.

4.6.5 WHEN all conditions on the applicable attachment are satisfied, **ENSURE** the ADEOF performs applicable notifications.

4.6.6 Using the station paging system, NOTIFY SERO of the following:

- Event reclassification
- Event termination
- Event recovery

4.6.7 WHEN SERO is de-activated, DIRECT SERO managers to secure the ERFs and RECORD SERO termination in logbook.

– End of Section 4.6 –

5. REVIEW AND SIGNOFF

N/A

6. REFERENCES

6.1 Developmental Documents

- 6.1.1 "Final Safety Analysis Report Unit 1," Appendix G
- 6.1.2 "Final Safety Analysis Report Unit 2," Appendix 12A
- 6.1.3 "Final Safety Analysis Report Unit 3," Section 13.3
- 6.1.4 "Millstone Nuclear Power Station Emergency Plan"
- 6.1.5 Code of Federal Regulations 10CFR50.54(x) and 10CFR50.54(y)
- 6.1.6 NUREG-0654, Revision 1, "Criteria for Preparation and Evaluation of Emergency Response Plans and Preparedness in Support of Nuclear Power Plants"

6.2 Supporting Documents

- 6.2.1 NUREG-0737, "Clarification of TMI Action Plan Requirements, Supplement 1, Requirements for Emergency Response Capability"
- 6.2.2 EPIP 4400, "Event Assessment, Classification, and Reportability"
- 6.2.3 EPIP 4404, "Notifications and Communications"
- 6.2.4 EPOP 4412, "Evacuation and Assembly"
- 6.2.5 EPOP 4425, "Personnel Radiation Exposure Control and Dosimetry Issue During Nuclear Emergencies"
- 6.2.6 EPOP 4428G, "Protective Action Recommendations"
- 6.2.7 AR 98015071, "Evaluate Control Room / SERO Communications Flow."

Level of Use
Information

STOP

THINK

ACT

REVIEW

EPOP 4411
Rev. 5
22 of 30

7. SUMMARY OF CHANGES

- 7.1 Incorporated previously SORC approved change to revision 4.
- 7.2 Changed the objective step 1.1 to clarify that the procedure provides guidance to the DSEO for emergency response actions during an emergency event.
- 7.3 Changed the discussion step 1.2 to clarify that a partial SERO activation is initiated upon declaration of an Unusual Event, Posture Code Delta–One or Delta–Two and that the Shift Manager of the affected unit becomes the CR DSEO and activates the on–shift staff only.
- 7.4 Modified Prerequisites step 2.1.1 to clarify that conditions have deteriorated such that an Unusual Event has been declared or is imminent.
- 7.5 Changed the definition of emergency event in step 2.3.14 from an Alert, Posture Code Charlie–One or higher to an Unusual Event, Posture Code Delta–One or Delta Two or higher.
- 7.6 Combined original step 4.2.3 and 4.2.4.
- 7.7 Modified note prior to step 4.2.4 to clarify that if the radiopager system is not operating as expected, the Shift Technician or Designee can perform backup notifications.
- 7.8 Added step 4.2.4 for the Shift Technician to perform State, town, and SERO notifications.
- 7.9 Added information to step 4.2.6 for announcing Unusual Event via the Station paging system.
- 7.10 Added step 4.2.7 to classify the event if an Unusual Event is being escalated.
- 7.11 Added step 4.2.8 to terminate the event by issuing a termination IRF if conditions which caused the classification of the Unusual Event have been resolved.

Attachment 1
DSEO/ADTS Turnover Checklist

(Sheet 1 of 2)

DISCUSS the status of the following items during the turnover brief:

1. Event classification level:

- | | | |
|--|--------------------------------------|--------------------------------|
| <input type="checkbox"/> GENERAL EMERGENCY | <input type="checkbox"/> Alpha | <input type="checkbox"/> Bravo |
| <input type="checkbox"/> SITE AREA EMERGENCY | <input type="checkbox"/> Charlie-Two | |
| <input type="checkbox"/> ALERT | <input type="checkbox"/> Charlie-One | |

2. Event classification basis:

3. Has the ADTS relieved CR DSEO of EAL classification? Yes No

4. PAR recommendations:(GENERAL EMERGENCY only) _____

5. Off-site notifications performed: State/Local NRC

6. Unit status: _____

7. Critical Safety Functions (ADTS only): _____

8. Time of trip: _____

9. Major plant systems and equipment affected: _____

10. Equipment out of service: _____

11. Corrective actions planned or in progress and their priorities: _____

12. Turnover of dose calculations from the control room (Chemistry Tech) to the EOF MRDA: _____

13. Outstanding items awaiting action: _____

14. Outside agency assistance requested:

- Fire Police Ambulance Other: _____

Level of Use
Information

STOP THINK ACT REVIEW

Attachment 2

De-escalation of Emergency Classification Checklist

(Sheet 1 of 2)

This checklist is a guideline for determining if conditions allow de-escalation of emergency classification to GENERAL EMERGENCY Bravo, SITE AREA EMERGENCY Charlie-Two, or ALERT Charlie-One. If de-escalation to UNUSUAL EVENT Delta-Two or lower is considered, Refer To and COMPLETE Attachment 3, "Termination of Emergency Event Checklist."

NOTE

Emergency event classifications may be de-escalated in a non-sequential order. For example, if all conditions for de-escalation to ALERT Charlie-One are satisfied, a GENERAL EMERGENCY Alpha event may be de-escalated to ALERT, Charlie-One.

All questions must be answered in the affirmative or N/A to proceed further in this checklist.

A. PLANT CONDITIONS

- A.1 All appropriate EOP actions, AOP actions, or both, have been completed: Yes No N/A
- A.2 Appropriate safety parameters have been analyzed and plant indicators are stable or improving: Yes No N/A
- A.3 All appropriate emergency repairs, emergency actions, or both, have been completed, which precludes the potential for further deterioration of plant systems: Yes No N/A

NOTE

In situations when *no* EAL condition is in effect, Refer To Attachment 3, "Termination of Emergency Event Checklist" must be used.

- A.4 An EAL condition for a lower level classification exists: Yes No N/A

B. COMPLETION OF MEASURES TO PROTECT PUBLIC HEALTH AND SAFETY

- B.1 All appropriate organizations have been notified of event: Yes No N/A
- B.2 On-site and off-site radiological surveys have been completed and support de-escalation: Yes No N/A
- B.3 All dose calculations and projections have been completed and support de-escalation: Yes No N/A
- B.4 Off-site radiological conditions, both from plume and from ingestion pathway, support de-escalation: Yes No N/A
- B.5 Discussion with NU representative in State EOC concludes State or local actions, such as EOC actuation, public information, and public protective actions will *not* be compromised by de-escalation: Yes No N/A

Level of Use
Information

STOP

THINK

ACT

REVIEW

EPOP 4411

Rev. 5

26 of 30

Attachment 2

De-Escalation of Emergency Classification Checklist

(Sheet 2 of 2)

C. CONCURRENCE

- C.1 NU Representative in State EOC concurs with and supports de-escalation: Yes No N/A
- C.2 State EOC is aware of NU's intent to de-escalate or reclassify the event: Yes No N/A
- C.3 A verbal report on decision to de-escalate has been provided to NRC Operations Center (Bethesda, MD) or On-site NRC Site Team Leader: Yes No N/A

D. AUTHORIZATION

- D.1 DSEO authorizes de-escalation: Yes No N/A

Date: _____ Completed By: _____
Time: _____ Print Name Signature

Level of Use Information

STOP THINK ACT REVIEW

EPOP 4411
Rev. 5
27 of 30

Attachment 3 Termination of Emergency Event Checklist

(Sheet 1 of 2)

This checklist is a guideline for determining if conditions allow termination of the on-call emergency response aspects for an ALERT Charlie-One or higher event in situations when long-term damage to the plant has *not* occurred.

Termination of an emergency event enables the on-site and off-site emergency response organizations to disband or reduce their staff. Termination also signifies that the risk to public health and safety and to company employees has been removed.

NOTE

All questions must be answered in the affirmative or N/A to proceed further in this checklist.

A. PLANT CONDITIONS

- A.1 Plant conditions, systems, and equipment have been restored or replaced such that the plant is *not* in an EAL condition for an Alert or higher classification: Yes No N/A
- A.2 Plant equipment status has been analyzed and systems are in a stabilized and safe condition: Yes No N/A
- A.3 Unplanned gaseous releases, effluent releases, or both, to environment have been terminated: Yes No N/A
- A.4 The potential for future unplanned gaseous releases, effluent releases, or both, in excess of technical specifications have been mitigated: Yes No N/A
- A.5 All plant personnel have been accounted for and are in a safe environment: Yes No N/A
- A.6 All identified security threats have been contained or eliminated: Yes No N/A
- A.7 The core is adequately covered, cooled, and containment integrity is intact: Yes No N/A
- A.8 The appropriate plant safety systems are operable: Yes No N/A
- A.9 Primary containment leakage, secondary containment leakage, or both, has been stopped or controlled within technical specification limits: Yes No N/A

B. COMPLETION OF MEASURES TO PROTECT PUBLIC HEALTH AND SAFETY

- B.1 All appropriate organizations have been notified of event: Yes No N/A
- B.2 On-site and off-site radiological surveys have been completed and support termination: Yes No N/A
- B.3 Dose calculations and projections have been completed and support termination: Yes No N/A
- B.4 Discussion with NU Representative in State EOC concludes State or local actions, such as EOC actuation, public information, and public protective actions will *not* be compromised by termination: Yes No N/A

Level of Use
Information

STOP THINK ACT REVIEW

EPOP 4411
Rev. 5
28 of 30

Attachment 3
Termination of Emergency Event Checklist
(Sheet 2 of 2)

C. CONCURRENCE

- C.1 NU Representative in State EOC concurs with and supports termination: Yes No N/A
- C.2 Executive Vice President of Nuclear Engineering and Operations concurs with and supports termination: Yes No N/A
- C.3 NU Representative in State EOC has informed State of Connecticut's Governor (or his representative), Office of Emergency Management, and Department of Environmental Protection of NU's intent to terminate the event: Yes No N/A
- C.4 A verbal report on decision to terminate has been provided to NRC Operations Center (Bethesda, MD) or On-site NRC Site Team Leader: Yes No N/A
- C.5 Appropriate press releases and coordination measures have been completed: Yes No N/A

D. AUTHORIZATION

- D.1 DSEO authorizes termination: Yes No N/A

Date: _____ Completed By: _____
Time: _____ Print Name Signature

Level of Use
Information

STOP THINK ACT REVIEW

Attachment 4
Activation of Recovery Organization Checklist

(Sheet 1 of 1)

After long-term damage (i.e., core damage) has occurred, and the plant has been stabilized, activation of the Recovery Organization is warranted. This checklist is a guideline for determining if conditions allow activation of the Recovery Organization. It is recognized that radiation surveys and decontamination of on-site areas, off-site areas, or both, will be the responsibility of the Recovery Organization.

NOTE

All questions must be answered in the affirmative or N/A to proceed further in this checklist.

A. PLANT CONDITIONS

NOTE

Plant conditions may be considered stable even if one or more fission product barriers is still lost.

- A.1 The plant is in a stable condition; i.e., plant equipment status has been analyzed and plant systems are in a stabilized or safe condition: Yes No N/A
- A.2 Major radioactive releases have been terminated and the potential for future unplanned effluent releases in excess of technical specifications have been mitigated: Yes No N/A
- A.3 The potential for a substantial degradation in level of plant safety *no* longer exists: Yes No N/A

B. CONCURRENCE

- B.1 NU Representative in State EOC agrees the State EOC and local community actions will *not* be compromised: Yes No N/A
- B.2 Senior Vice President and Chief Nuclear Officer – Millstone has approved the Recovery Organization activation: Yes No N/A

C. NOTIFICATION

- C.1 A verbal report on decision to enter Recovery has been provided to NRC Operations Center (Bethesda, MD) or NRC Site Team Leader: Yes No N/A
- C.2 Following the transition briefing to the Recovery Organization by the DSEO, the Director of the Recovery Organization will assume command and control of SERO. Yes No N/A

Date: _____
Time: _____

Checklist Completed by: _____
Print Name

DSEO Signature: _____

Level of Use
Information

STOP THINK ACT REVIEW

EPOP 4411
Rev. 5
30 of 30

Docket Nos. 50-245
50-336
50-423
B17947

Attachment 4

Millstone Nuclear Power Station, Unit Nos. 1, 2, and 3
Emergency Plan Implementing Procedure 4404, Revision 5
Notifications and Communications

December 1999

MILLSTONE NUCLEAR POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE



Notifications and Communications

EPIP 4404

Rev. 5

STOP

THINK

ACT

REVIEW

Approval Date: 9-10-99

Effective Date: 12-16-99

Level of Use
General

**Millstone All Units
Emergency Plan Implementing Procedure**

Notifications and Communications

TABLE OF CONTENTS

1.	PURPOSE	2
2.	PREREQUISITES	4
3.	PRECAUTIONS	7
4.	INSTRUCTIONS	8
4.1	Initial Actions	8
4.2	Radiopager Notifications	9
4.3	NRC Notification	12
4.4	Callback Verification	13
4.5	Additional Notifications	15
4.6	Subsequent Actions	16
4.7	System Restoration and Administrative Actions	18
4.8	ENRS Failure	19
4.9	ENS Failure	21
5.	REVIEW AND SIGNOFF	23
6.	REFERENCES	23
7.	SUMMARY OF CHANGES	24
	ATTACHMENTS AND FORMS	
	Attachment 1, "Nuclear Incident Report Form (IRF)"	27
	Attachment 2, "Utility, State, NRC Callback Verification Checklist (All Events)	28
	Attachment 3, "State and Local Community Callback Verification Checklist	29
	Attachment 4, "NRC Event Notification Form"	30
	Attachment 5, "Alternate FAXWORKS Notifications Telephone Numbers	32
	Attachment 6, ""Notification and Callback Guidance	33
	Attachment 7, "Preparing and Transmitting an Incident Report Form (IRF)"	34
	Attachment 8, "Switching Telephone Lines"	39

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4404
Rev. 5
1 of 39

1. PURPOSE

1.1 Objective

Provide guidance to the Shift Technician, or other qualified ENRS operator for performance of prompt notifications for reportable events classified as NRC and State Posture Code emergency events.

1.2 Discussion

This procedure ensures timely completion of the following, in descending order of priority:

- Notification of State Agencies
- Notification of Towns (Local Officials)
- Notification of NRC
- Performance of administrative actions

Reporting time limits for NRC and State Posture Code emergency events are as follows:

- Regulations require that notification to DEP Monitoring and Radiation Control Division and Local Officials shall be accomplished within 15 minutes of an emergency event classification (e.g., Unusual Event and above).
- NRC regulations require the licensee to notify the NRC immediately after notification to the State DEP Monitoring and Radiation Control Division and not later than one hour after declaration of an emergency classification.

In situations involving multiple events at different units, the event classification reported shall reflect the most severe event. For example, if Unit 2 is experiencing an Alert (Charlie-One) event and Unit 3 is experiencing a Site Area Emergency (Charlie-Two) event, the event shall be reported as a Site Area Emergency (Charlie-Two) event. The lesser event shall be reported in an update radiopager message. Both events shall be reported to the NRC via the ENS.

Unless an event is being de-escalated, a lower classification event IRF radiopager message shall not be reported once a higher classification event has been reported.

The IRF is processed with the "Additional Information" section being filled in and recorded.

If an IRF is to be released with the "Additional Information" section entered and recorded and the circumstances or conditions which caused the report have been corrected, only one IRF is required. The following applies:

- The event is self terminating with the release of the initial IRF.
- The "A further report will not be given" block shall be checked.

2. PREREQUISITES

2.1 General

- 2.1.1 The event has been classified using EPIP 4400, "Event Assessment, Classification, and Reportability."
- 2.1.2 SERO activation is not required to use this procedure.
- 2.1.3 EOF activation is required to transfer notification responsibilities to the EOF.

2.2 Documents

- 2.2.1 EPUG 08B, "Millstone Emergency Plan Resource Book"
- 2.2.2 EPIP 4400, "Event Assessment, Classification, and Reportability"

2.3 Responsibilities

- 2.3.1 After the EOF has been activated, the EOF DSEO approves completed IRFs.
- 2.3.2 After the EOF has been activated, the MOC directs and coordinates the transfer of NRC notification responsibilities from the control room to the EOF.
- 2.3.3 After the EOF is activated, the ADEOF is responsible for the following:
 - Direction of on-call Shift Technician
 - Update and reclassification notifications
 - Termination notifications

2.4 Definitions

- 2.4.1 ADEOF – Assistant Director Emergency Operations Facility
- 2.4.2 CV – Callback Verification (i.e., individuals by group)
- 2.4.3 DOUBLE CLICK – To click twice
- 2.4.4 DEACTIVATE – To place a system, component, or organization in an inactive condition

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4404

Rev. 5

4 of 39

- 2.4.5 UE – Unusual Event
- 2.4.6 Affected unit – Any unit which is directly affected by an event
- 2.4.7 Incident description – “Additional Information” section of the Incident Report Form (IRF) providing a description of the event
- 2.4.8 Initial report – The first notification to the NRC, State and Local Officials, and applicable personnel that reports an NRC classification and State Posture Code emergency event.
- 2.4.9 Lead unit – The unit which assumes classification responsibilities for reportable events. The lead unit may be any of the following:
- In unit specific events, the affected unit
 - For non–unit specific events, (i.e., station security, hurricane, earthquake, fitness for duty, etc.) Unit 1 is the lead unit, unless otherwise designated.
 - In situations involving multiple events, the unit experiencing the most severe event has the lead.
 - A non–affected unit may be requested to assume the lead by the affected unit (e.g., loss of control room habitability).
- 2.4.10 MINIMIZE – To shrink
- 2.4.11 Notification time – The time the IRF message is released (reported on).
- 2.4.12 Prompt notification – The official notification to the State DEP Monitoring and Radiation Control Division and Local Officials within 15 minutes of classification, and notification to the NRC immediately after notification to the State DEP and not later than one hour after declaration of an emergency classification.

- 2.4.13 **Reclassification report** – A prompt notification, subsequent to the initial report, to State and Local Officials, the NRC, and applicable personnel that reports an escalation or de-escalation of event classification relative to the previous report.
- 2.4.14 **Shift Technician (ST)** – Responsible for ENRS initiation and notifications.
- 2.4.15 **Termination report** – The final notification to State and Local Officials, the NRC, and applicable personnel that reports termination of the event. For Unusual Event (Delta-Two), the initial report may also serve as the termination report if the event has been corrected in time for the initial report. The “further report will not be given” block will be checked and an event termination message will be automatically printed on the IRF.
- 2.4.16 **Update report** – A notification, subsequent to the initial report, to State and Local Officials, the NRC and applicable personnel, that reports additional information on the event, but does *not* escalate or de-escalate classification of the event.

3. PRECAUTIONS

- 3.1 The potential of an incident escalating to a higher incident classification must always be a primary concern when evaluating emergency plant conditions.
- 3.2 All Unusual Events and higher reportable events may require two or more radiopager messages to be issued; the prompt report and one or more update messages with "Additional Information" updates and, as appropriate, a termination message.
- 3.3 Organization and time restrictions include the following:
- Prior to SERO activation only the SM/CR DSEO is authorized to perform classifications and authorize notifications. The CR DSEO is relieved of classification responsibility by the ADTS after TSC activation, and notification responsibility by the EOF DSEO, after EOF activation.
 - Notification of State and Local Officials via the ENRS shall be initiated within 15 minutes of the classification (or reclassification) of any Emergency Action Level Table event. (UE or above)
 - The State EOC may assume responsibility for off-site notifications.
- 3.4 If a pager, telephone, or telephone number does not function as expected, the following alternate resources should be used and the malfunction corrected at a later date:
- Tri-Town Radio
 - Alternate phone lines (trunk, cellular)
 - Alternate phone listings
- 3.5 When using ENRS, failure to select the correct scenario (i.e., classification or group to page) may result in unwarranted activation or the release of misinformation.

4. INSTRUCTIONS

NOTE

1. For events that activate the SERO, Section 4 is initially performed by the Unit 3 Shift Technician in the control room; however, during SERO activation, the Unit 3 Shift Technician may be relieved of notification responsibilities by an on-call Shift Technician in the EOF. In this case, a formal turnover of notification responsibilities from the control room to the EOF is required.
2. Duties of the Unit 3 Shift Technician may be delegated to another qualified ENRS operator.

4.1 Initial Actions

Shift
Technician in
EOF

4.1.1 IF you are the Shift Technician in the EOF, Go To Section 4.2.

Shift
Technician in
Control Room

4.1.2 IF necessary, PERFORM ENRS log-on.

4.1.3 IF ENRS is *not* operational, Refer To Section 4.8 and Attachment 5, "Alternate FAXWORKS Notifications Telephone Numbers," and NOTIFY State and Local Officials.

NOTE

Telephone calls to alert the affected unit NRC Resident Inspector of impending radiopager notification are to be performed only if time permits. Telephone calls should not be attempted if the initial notification requirement will be exceeded.

SM/CR DSEO
or Designee

4.1.4 IF time permits, Go To step 4.3.1 and PERFORM NRC notifications.

– End of Section 4.1 –

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4404

Rev. 5

8 of 39

4.2 Radiopager Notifications

Shift
Technician in
Control Room
or EOF

4.2.1 Refer To and COMPLETE Attachment 1, "Nuclear Incident Report Form (IRF)," as follows:

- a. IF event is to be terminated, MARK "A further report: Will not be given" box on IRF.
- b. COMPLETE IRF including the following information:
 - Incident classification
 - Posture code
 - Classification time
 - Major and minor EAL headings with supporting information

NOTE

Meteorological data is available from SPDS or OFIS.

4.2.2 ENTER meteorological data as follows:

- IF data is available, ENTER data in "Current Site Wind" and NA in "Forecast Site Wind" sections.
- IF data is *not* available, ENTER NA in the "Current Site Wind" and "Forecast Site Wind" sections.

4.2.3 ENTER IRF data into ENRS as follows:

- a. IF additional instructions are necessary for developing an IRF, Refer To Attachment 7, "Preparing and Transmitting and IRF," and ENTER IRF data into ENRS.
- b. IF additional instructions are *not* necessary for developing an IRF, ENTER IRF data into ENRS as follows:
 - 1) OPEN "RapidReach Primary" icon and ENTER information.

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4404
Rev. 5
9 of 39

- 2) **IF** "RapidReach Primary" icon *not* operable, **PERFORM** the following:
 - a) **SELECT** "RapidReach Secondary" icon and **ENTER** event information.
 - b) **Refer To Attachment 8, Switching Telephone Lines,** and **TRANSFER** to telephone backup system.
- 3) **IF** both "RapidReach Primary" and "RapidReach Secondary" are *not* operable, **PERFORM** the following:
 - a) **SELECT** "EasyView Remote" capability.
 - b) **SELECT** Go To step 4.2.4.
- 4) **OPEN** "EasyView" icon and **ENTER** information.
- 5) **OPEN** "Form" icon and **ENTER** event information.
- 6) **PRINT** IRF and **VERIFY** correct.
- 7) **RECORD** audio message (entire IRF).
- 8) **VERIFY** audio message correct.
- 9) **FILE** IRF image for paging and fax purposes.

4.2.4 **OBTAIN** signature on written IRF from the following, as appropriate:

- **SM/CR DSEO**
- **EOF DSEO**

4.2.5 **IF** additional instructions are necessary for transmitting an IRF, **Refer To Attachment 7, "Preparing and Transmitting an IRF,"** and **TRANSMIT** IRF radiopager message.

4.2.6 **IF** additional instructions are *not* necessary for transmitting an IRF, **TRANSMIT** IRF radiopager message.

4.2.7 **Refer To Attachment 1, Block 16,** and **ENTER** time and date provided on the IRF.

4.2.8 **SIGN** the IRF.

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4404
Rev. 5
10 of 39

4.2.9 **IF** Alert or higher, Refer To EPUG 08B, "Millstone Emergency Plan Resource Book," and **PERFORM** the following:

- **CONTACT** Information Technology in the Wethersfield Data Center.
- **DIRECT ERDS** to be activated and configured for the affected unit.

NOTE

If either of the following conditions exist, the radiopager transmission has failed:

- Controlled pager on the console has *not* activated within approximately 2 minutes.
- No responders call in within approximately 2 minutes after release of the IRF radiopager message.

4.2.10 **IF** radiopager transmission has failed using "RapidReach," Refer To Section 4.8.

– End of Section 4.2 –

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4404
Rev. 5
11 of 39

4.3 NRC Notification

NOTE

1. State of Connecticut posture codes, (e.g., Delta–One, etc.) shall not be used when notifying the NRC of reportable events.
2. It is good practice to notify the NRC of the next planned report, e.g., one hour.

SM/CR DSEO
or Designee

4.3.1 Refer To Attachment 2, "Utility, State, NRC Callback Verification Checklist," Part I and ATTEMPT to notify the NRC Resident using any of the following:

- NRC Resident's radiopager
- Affected unit Resident Inspector's office or home telephone number
- Non-affected unit Resident Inspector's office or home phone number

4.3.2 RECORD applicable information for event on Attachment 4 "NRC Event Notification Form."

4.3.3 Refer To and COMPLETE Attachment 2, Part II and PERFORM the following:

- a. NOTIFY NRC Operations Center via ENS of event .
- b. PROVIDE information recorded on Attachment 4 to the NRC.

4.3.4 IF ENS is not operative, Go To Section 4.9.

4.3.5 LOG NRC communications, as appropriate.

– End of Section 4.3 –

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4404
Rev. 5
12 of 39

4.4 Callback Verification

Shift
Technician in
Control Room
or EOF

4.4.1 MONITOR callbacks on ENRS screen.

NOTE

Attachment 6, "Notification and Callback Guidance," provides guidance for verification of required actions.

4.4.2 IF the following have *not* called in, **ATTEMPT** callback verification within approximately 15 minutes after event message has been transmitted:

- State of Connecticut DEP Monitoring and Radiation Control Division
- State and Local Officials

NOTE

Callback verification via printed CV report can *not* be performed from a "client" server if the radiopager message was transmitted via "EasyView Remote." This information can be obtained from Bldg 475 server or EOF phone server only.

4.4.3 IF additional instructions are necessary for performing callback verification, Refer To Attachment 7 and **PERFORM** callback verification.

4.4.4 IF additional instructions are *not* necessary for performing callback verification, **PERFORM** callback verification.

4.4.5 IF additional instructions are necessary for printing a Callback Verification (CV) report, Refer To Attachment 7 and **PRINT CV** report (i.e., individuals in group) to document callback responses.

4.4.6 IF additional instructions are *not* necessary for printing a Callback Verification (CV) report, **PRINT CV** report (i.e., individuals in group) to document callback responses.

4.4.7 Refer To CV report or Attachment 3 and **DOCUMENT** non-responders.

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4404

Rev. 5

13 of 39

4.4.8 Refer To Attachment 2 and Attachment 3 and **PERFORM** backup notification call to each required non-responder, as required.

4.4.9 **IF** non-responders can *not* be contacted, Refer To and **COMPLETE** Attachment 3 as follows:

a. **REQUEST** State Police dispatchers perform the following:

- **NOTIFY** non-responding State and Local radiopager holders of event in progress.
- **REQUEST** non-responders call into station for the message.
- **NOTIFY** Shift Technician of non-responding State and Local radiopager holders that have been contacted and notified.

4.4.10 **PRINT** copy of SERO CV report only and **FAX** to EOF at 437-2741.

4.4.11 **WHEN** initial and backup notifications have been completed, **PRINT** final ENRS CV report.

- End of Section 4.4 -

4.5 Additional Notifications

Shift
Technician in
Control Room

4.5.1 NOTIFY American Nuclear Insurers (ANI) at 9-561-3433.

- End of Section 4.5 -

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4404
Rev. 5
15 of 39

4.6 Subsequent Actions

Shift
Technician in
Control Room
or EOF

4.6.1 **IF** any of the following conditions occur, Refer To step 4.2.1 and **PERFORM** notifications:

- Update or reclassification notifications are directed
- Event is terminated **AND** event was *not* closed out in initial report

4.6.2 **IF** all existing events have been terminated **AND** callback verifications have been completed, **PERFORM** the following:

- a. **IF** additional instructions are necessary for restoring the general default message, Refer To Attachment 7 and **RESTORE ENRS** general default message.
- b. **IF** additional instructions are *not* necessary for restoring the general default message, **RESTORE ENRS** general default message.
- c. **PERFORM ENRS log-off.**

Shift
Technician in
Control Room

4.6.3 **IF** directed by the ADEOF or on-call Shift Technician to transfer notification responsibilities to the EOF, **PERFORM** the following:

a. **COORDINATE** formal turnover of notification responsibilities from the control room to the Shift Technician in the EOF.

Shift
Technician in
EOF

b. **REQUEST** Shift Technician in control room log-off.

c. **PERFORM ENRS log-on in EOF.**

d. **IF** EOF ENRS is *not* operable, **CONSULT CR** Shift Technician for assistance and **Go To** step 4.8, as necessary.

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4404
Rev. 5
16 of 39

- e. IF providing shift relief, REQUEST previous Shift Technician provide the following:
- Event status
 - Summary of communication times, content
 - Commitments for future or pending communications (e.g., NRC follow-up)
- f. Go To step 4.2.1 and PERFORM notifications.

Shift
Technician in
Control Room

4.6.4 WHEN requested by the Shift Technician in the EOF, PROVIDE assistance, as necessary.

Shift
Technician in
EOF

4.6.5 IF directed by the ADEOF to process classification changes and updates through the State EOC, PERFORM the following:

- a. STOP subsequent ENRS transmissions.
- b. IF requested, Refer To Attachment 5 and FAX IRF to the State EOC.

– End of Section 4.6 –

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4404
Rev. 5
17 of 39

4.7 System Restoration and Administrative Actions

Shift
Technician in
Control Room
or EOF

4.7.1 **WHEN** event is terminated, REVIEW IRFs and VERIFY appropriate termination message has been issued.

4.7.2 ENSURE all CV reports are finalized.

4.7.3 OBTAIN original of the following documents for the affected unit control room:

- Attachment 1, "Nuclear Incident Report Form (IRF)" and printout
- Attachments 2 and 3, as applicable
- Attachment 4, "NRC Event Notification Form"
- ENRS callback verification report printout (CV report)
- Any other completed attachments

4.7.4 SEND copies of the following documents to the Manager Emergency Planning Services:

- Attachment 1, "Nuclear Incident Report Form (IRF)" and printout
- Attachments 2 and 3, as applicable
- Attachment 4, "NRC Event Notification Form"
- ENRS callback verification report printout (CV report)
- Any other completed attachments
- Condition Report (if applicable)
- Log entries, as applicable

– End of Section 4.7 –

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4404
Rev. 5
18 of 39

4.8 ENRS Failure

- 4.8.1 DIAL NU paging system, and ENTER numeric backup event code (i.e., 101, 201, 301, etc.) or NOTIFY SAS to transmit event code or text message.

NOTE

1. This Section is performed *only* when ENRS has failed or radiopager transmission was performed via "EasyView Remote."
2. A fax cover sheet is *not* required when distributing the IRF via SNET FAXWORKS.

4.8.2 DISTRIBUTE IRF via SNET FAXWORKS as follows:

- a. PLACE completed IRF in telecopier feeder tray.
- b. Using telephone connected to the fax machine, ENTER SNET FAXWORKS telephone number (9-800-229-4329).
- c. IF FAXWORKS is *not* available, Refer to Attachment 5 and PERFORM alternate FAXWORKS notifications.
- d. WHEN prompted for password, ENTER SNET FAXWORKS password (6552931) followed by asterisk (*).
- e. WHEN prompted, ENTER 1 to send a fax.
- f. WHEN prompted for choice of fax transmission schedule, ENTER 1 for immediate dispatch.
- g. WHEN prompted for destination or distribution list number, ENTER 002 followed by asterisk (*).
- h. WHEN prompted for next destination, ENTER pound key (#) to indicate there are no more destinations.
- i. WHEN a steady fax tone is heard, PRESS "START/COPY" push button on telecopier.

- 4.8.3 Refer To Attachment 2 and Attachment 3, and NOTIFY all required call-in Level 2 radiopager holders.

4.8.4 Refer To EPUG-08B, (Att) 2 "Outside Agencies Telephone Listings," and NOTIFY Information Technology (IT) of ENRS failure.

4.8.5 Go To Section 4.3 and PERFORM NRC notification.

- End of Section 4.8 -

4.9 ENS Failure

NOTE

1. This section is performed *only* when dedicated ENS lines have failed.
2. In an emergency, with loss of other communications, the state or local police may be contacted by radio and requested to place a call to the NRC.

4.9.1 **IF** ENS has failed, **SELECT** one of the following methods, as applicable:

- Commercial telephone line
- Trunk line to Berlin exchange
- Cellular telephone (station management or personal vehicle)
- Radio (state or local police to place call)

4.9.2 **OBTAIN** NRC Operations Center number from one of the following:

- Label on ENS telephone
- Attachment 2
- EPUG 08B
- Other listing or directory assistance (alternate number)

4.9.3 **WHEN** NRC is contacted, **PROVIDE** the following information:

- a. ENS is inoperative
- b. Information recorded in Attachment 4
- c. **IF** event is being terminated via the report, notice of event termination.

4.9.4 Refer To EPUG-08B, "Millstone Emergency Plan Resource Book," and NOTIFY telecommunications personnel (not on-call) of ENS failure.

4.9.5 LOG NRC communications, as appropriate.

- End of Section 4.9 -

5. REVIEW AND SIGNOFF

5.1 The review and signoff for this procedure is located in the attachments.

6. REFERENCES

Developmental References

- 6.1 Code of Federal Regulations Title 10 Part 50; Appendix E, "Emergency Planning and Preparedness for Production and Utilization Facilities"
- 6.2 Code of Federal Regulations Title 10 Part 50.72; "Immediate Notification Requirements for Operating Nuclear Power Reactors"
- 6.3 "Final Safety Analysis Report Unit 1," Appendix G
- 6.4 "Final Safety Analysis Report Unit 2," Appendix 12A
- 6.5 "Final Safety Analysis Report Unit 3," Section 13.3
- 6.6 "Millstone Nuclear Power Station Emergency Plan"
- 6.7 NUREG-0654, "Criteria for Preparation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants"
- 6.8 NUREG-0737, "Clarification of TMI Action Plan Requirements," Supplement 1, "Requirements for Emergency Response Capability"

Supporting References

- 6.9 EPUG-08B, "Millstone Emergency Plan Resource Book"
- 6.10 EPIP 4400 "Event Assessment, Classification, and Reportability"

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4404
Rev. 5
23 of 39

7. SUMMARY OF CHANGES

7.1 Removed all material pertaining to the notifications of non-emergency events, including the following attachments:

- Attachment 6, "Additional Notifications Checklist"
- Attachment 7, "Nuclear Incident Report Form (significant Fitness for Duty)"
- Attachment 8, "Significant Fitness for Duty Event Notification"
- Attachment 10, "Incident Description Examples"

The material now contained in this procedure is applicable to Unusual Event or higher classifications.

7.2 This procedure was revised to reflect that the "old" ENRS system has been replaced by the "new" (RapidReach) ENRS system. To minimize confusion and maintain continuity, the system will continue to be simply referred to as ENRS.

7.3 Deleted all information and references pertaining to Connecticut Yankee.

7.4 Changed step 1.2 to clarify that all IRFs must be processed with the "Additional Information" section filled in and recorded.

7.5 Deleted previous step 2.2.1 and note prior to step 4.1.4 referencing EPUG 02, "Emergency Notification and Response System Operations."

7.6 Added CV, DOUBLE CLICK, MINIMIZE, and new definition for Shift Technician to the definitions Section 2.

7.7 Modified step 2.4.15 to clarify that for an Unusual Event, the "Further report will not be given," block will be checked and an event termination message will automatically be printed on the IRF.

7.8 Deleted previous step 3.4 that contained the automatic test message schedule.

7.9 Added step 3.5 to the precautions to clarify that failure to select the correct scenario mat result in unwarranted activation or the release of misinformation.

7.10 Deleted previous step 4.2.1 that contained instruction for completing an Incident Report Form.

Level of Use
General

STOP THINK ACT REVIEW

EPIC 4404
Rev. 5
24 of 39

- 7.11 Added bullet to step 4.2.1 to include the major and minor EAL headings with supporting information on the Incident Report Form.
- 7.12 Modified steps 4.2.3, 4.2.5, and 4.2.6 to reflect the new process for entering IRF data into ENRS.
- 7.13 Added step 4.2.8 to sign the IRF.
- 7.14 Added a bullet to the note prior to step 4.2.9 to clarify that if the controlled pager on the console has not activated within approximately 2 minutes, the radiopager transmission has failed.
- 7.15 Added step 4.2.10 to refer to Section 4.8 if the radiopager transmission has failed using "RapidReach."
- 7.16 Added steps 4.4.3 through 4.4.6 to clarify the process for callback verification.
- 7.17 Added step 4.4.10 to ensure callback verification data is sent to the EOF.
- 7.18 Added step 4.4.11 to print a final CV report when initial and backup notifications have been completed.
- 7.19 Added step 4.6.2 to restore the ENRS default message.
- 7.20 Modified step 4.7.4 to clarify that copies of completed documents are sent to the Manager of Emergency Planning Services.
- 7.21 Added step 4.8.1 to clarify that if ENRS fails, the Shift Technician must either enter the numeric backup event codes into the NU paging system of notify SAS to transmit the event code or text message.
- 7.22 Modified step 4.8.4 to reflect the current title of Information Technology.
- 7.23 Modified Attachment 1 to provide major and minor EAL Headings as part of "Additional Information," and added information on meteorological data.
- 7.24 Deleted Required call-in from Attachment 2.
- 7.25 Added new radiopager, call-back, and group radiopager numbers to Attachment 3.
- 7.26 Deleted Level 1 notifications from Attachment 4.
- 7.27 Deleted Level 1 references from Attachments 5 and 6.

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4404
Rev. 5
25 of 39

- 7.28 Added new Attachment 7, "Preparing and Transmitting an Incident Report Form (IRF)," to provide explicit instructions for ENRS Operation using new software and hardware.
- 7.29 Added Attachment 8, "Switching Telephone Lines," to provide instructions for backup phone capabilities if primary phone server is not operable.

Attachment 3
State and Local Community Callback Verification Checklist
(Sheet 1 of 1)

INSTRUCTIONS:

NOTE

Only one attempt is required for a UE backup notification.

1. **IF** event is UE or higher, **ATTEMPT** one backup notification of non-responders.
2. **IF** event is Alert or higher and non-responders cannot be reached, **PERFORM** the following:
 - a. **CONTACT** State Police Barracks Dispatcher (Troop E, 848-1201).
 - b. **REQUEST** immediate assistance in notifying non-responders.
 - c. **REQUEST** police confirm response.

Officer Contacted: _____ Date/Time: _____ IRF No: _____

State/Local Communities	Telephone Numbers		Radiopager (NUWAPS)	ENRS Call Back Numbers*	Time-Called	Comments
	Primary	Backup				
East Lyme ECC	739-3419	739-3410	9861 ✓	888-826-6606		
Fishers Island CEO	Southhold Town Police: 516-765-2600		9947 ✓	888-826-6606		
Groton City PD	445-2451		9862 ✓	888-826-6606		
Groton Town Emergency Dispatch	445-2497		9863 ✓	888-826-6606		
Ledyard Dispatch Center	464-7271	464-1138	9864 ✓	888-826-6606		
Lyme Emergency Dispatcher (V. Shore)	860-399-7921		9960 ✓	888-826-6606		
Montville Dispatch Center	848-9292	848-9293	9865 ✓	888-826-6606		
New London Dispatch Center	442-4444		9866 ✓	888-826-6606		
Old Lyme Emergency Dispatch (V.Shore)	860-399-7921		9973 ✓	888-826-6606		
Plum Island, N.Y. - PIADC	516-323-2500 516-323-2501		9975	888-826-6606		
Waterford Dispatch	Hotline		9867 ✓	888-826-6606		
State DEP (Dispatch)	860-424-3333	860-424-3338	9869 ✓	860-444-7469		
State OEM	860-566-3180	860-566-2074	9872 ✓	888-826-6606		
Suffolk County	516-852-4815	516-852-4900	9871	888-826-6606		

NOTE: 6379 IS THE GROUP RADIOPAGER NUMBER for State/Local pagers.

* Backup callback number 860-441-1387

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4404
Rev. 5
29 of 39

Attachment 4
NRC Event Notification Form
 (Sheet 1 of 2)

NRC EVENT NUMBER: _____

NRC CONTACT (NAME) _____

NOTIFICATION TIME	FACILITY NAME	UNIT	CALLER'S NAME	TELEPHONE NUMBER ()
-------------------	---------------	------	---------------	-------------------------

EVENT TIME (EST OR EDT)	EVENT DATE or IRF#	POWER (%) and MODE BEFORE	POWER (%) and MODE AFTER
-------------------------	--------------------	---------------------------	--------------------------

EVENT CLASSIFICATION	1-Hr Non-Emergency 10 CFR 50.72 (b)(1)	4-Hr Non-Emergency 10 CFR 50.72 (b)(2)
GENERAL EMERGENCY	(i)(A) TS Required S/D	(i) Degrade While S/D
SITE AREA EMERGENCY	(i)(B) TS Deviation	(ii) RPS Actuation (SCRAM)
ALERT	(ii) Degraded Condition	(ii) ESF Actuation
UNUSUAL EVENT	(ii)(A) Unanalyzed Condition	(iii)(A) Safe S/D Capability
50.72 NON-EMERGENCY	(ii)(B) Outside Design Basis	(iii)(B) RHR Capability
PHYSICAL SECURITY (73.71)	(ii)(C) Not Covered by OPs/EOPs	(iii)(C) Control of Rad Release
TRANSPORTATION	(iii) Earthquake	(iii)(D) Accident Mitigation
MATERIAL/EXPOSURE	(iii) Flood	(iv)(A) Air Release > 2 x App. B
FITNESS FOR DUTY	(iii) Hurricane	(iv)(B) Liquid Release > 2 x App. B
OTHER	(iii) Ice/Hail	(v) Offsite Medical
	(iii) Lightning	(vi) Offsite Notification
	(iii) Tornado	
	(iii) Other Natural Phenomenon	
	(iv) ECCS Discharge to RCS	
	(v) Lost ENS	
	(v) Lost Other Assessment/Comms	
	(v) Emergency Siren INOP	
	(vi) Fire	
	(vi) Toxic Gas	
	(vi) Rad Release	
	(vi) Other Hampering Safe Op.	

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4404
 Rev. 5
 30 of 39

Attachment 4
NRC Event Notification Form
 (Sheet 2 of 2)

DESCRIPTION: (Fill in as available)

1. SYSTEM(S) AFFECTED:

2. ACTUATIONS & THEIR INITIATION SIGNALS:

3. CAUSES (IF KNOWN):

4. EFFECT OF EVENT ON PLANT:

5. ACTIONS TAKEN OR PLANNED:

6. ADDITIONAL INFORMATION:

NOTIFICATIONS	YES	NO	WILL BE	ANYTHING UNUSUAL OR NOT UNDERSTOOD?	YES (EXPLAIN ABOVE)	NO
NRC RESIDENT				DID ALL SYSTEMS FUNCTION AS REQUIRED?	YES	NO (EXPLAIN ABOVE)
STATE				MODE OF OPERATION UNTIL CORRECTED:		
LOCAL				ESTIMATED RESTART DATE:		
OTHER GOV AGENCIES						
MEDIA/PRESS RELEASE						

RADIOLOGICAL RELEASES: CHECK OR FILL IN APPLICABLE ITEMS

<input type="checkbox"/>	LIQUID RELEASE	<input type="checkbox"/>	GASEOUS RELEASE	<input type="checkbox"/>	UNPLANNED RELEASE	<input type="checkbox"/>	PLANNED RELEASE	<input type="checkbox"/>	ONGOING	<input type="checkbox"/>	TERMINATED		
<input type="checkbox"/>	MONITORED	<input type="checkbox"/>	UNMONITORED	<input type="checkbox"/>	OFFSITE RELEASE	<input type="checkbox"/>	T. S. EXCEEDED	<input type="checkbox"/>	RM ALARMS	<input type="checkbox"/>	AREAS EVACUATED		
<input type="checkbox"/>			PERSONNEL EXPOSED OR CONTAMINATED			<input type="checkbox"/>			OFFSITE PROTECTIVE ACTIONS RECOMMENDED			State release path in description	

	Release Rate (Ci/sec)	%T.S. LIMIT	HOO GUIDE	Total Activity	% T.S. LIMIT	HOO GUIDE
Noble Gas			0.1 Ci/sec			1000 Ci
Iodine			10 µCi/sec			0.01Ci
Particulate			1 µCi/sec			1 mCi
Liquid (excluding tritium & dissolved noble gases)			10 µCi/min			0.1 Ci
Liquid (tritium)			0.2 Ci/min			5 Ci
Total Activity						

	PLANT STACK	CONDENSER/AIR EJECTOR	MAIN STEAM LINE	SG BLOWDOWN
RAD MONITOR READINGS:				
ALARM SETPOINTS				
% T.S. LIMIT (if applicable)				

RCS OR SG TUBE LEAKS: CHECK OR FILL IN APPLICABLE ITEMS:

LOCATION OF THE LEAK (e.g., SG#, valve, pipe, etc):

LEAK RATE: UNITS gpm/gpd T. S. LIMITS:

LEAK START DATE: TIME: COOLANT ACTIVITY & UNITS: PRIMARY - SECONDARY -

LIST OF SAFETY RELATED EQUIPMENT NOT OPERATIONAL:

SM/DSEO Signature : _____ Time: _____

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4404
 Rev. 5
 31 of 39

Attachment 5
Alternate FAXWORKS Notifications Telephone Numbers
 (Sheet 1 of 1)

IF ENRS OR FAXWORKS is *not* available, manually FAX notifications to the following State and Local Officials in the order listed:

ADDITIONAL STATE and LOCAL OFFICIALS FAX NUMBERS		
Towns	Fax Number	Contacted (✓)
Waterford	Hotline 443-3651 ✓	<input type="checkbox"/> Yes <input type="checkbox"/> No
East Lyme	739-4381 ✓	<input type="checkbox"/> Yes <input type="checkbox"/> No
New London	447-5277 ✗	<input type="checkbox"/> Yes <input type="checkbox"/> No
Groton City	448-1962 ✓	<input type="checkbox"/> Yes <input type="checkbox"/> No
Groton Town	445-5928 ✗	<input type="checkbox"/> Yes <input type="checkbox"/> No
Montville	848-2552 ✗	<input type="checkbox"/> Yes <input type="checkbox"/> No
Ledyard	464-8124 ✓	<input type="checkbox"/> Yes <input type="checkbox"/> No
Old Lyme	434-9283	<input type="checkbox"/> Yes <input type="checkbox"/> No
Lyme	434-2989 ✗	<input type="checkbox"/> Yes <input type="checkbox"/> No
State of Connecticut		
State DEP	860-566-6032 ✗	<input type="checkbox"/> Yes <input type="checkbox"/> No
State OEM/EOC	860-247-0664 ✗	<input type="checkbox"/> Yes <input type="checkbox"/> No
State of New York		
Fishers Island	516-788-7798 ✗	<input type="checkbox"/> Yes <input type="checkbox"/> No
Plum Island	516-323-2507 ✗	<input type="checkbox"/> Yes <input type="checkbox"/> No
Suffolk County, NY	516-345-3232 ✗	<input type="checkbox"/> Yes <input type="checkbox"/> No

Level of Use
General

STOP THINK ACT REVIEW

EPIP 4404
 Rev. 5
 32 of 39

Attachment 6
Notification and Callback Guidance
(Sheet 1 of 1)

ACTION (X – Required)	CLASSIFICATION			
	UE (Delta-1,2)	ALERT (Charlie 1)	SAE (Charlie 2)	GE (Bravo) (Alpha)
<u>Nuclear IRE:</u>				
•Enter current meteorological data	X	X	X	X
•Enter "Additional Information" in first message	(a)			
•Enter "Additional Information" in update	X	X	X	X
•Issue termination in first message	X(a)			
•Issue termination in update message	X	X	X	X
<u>CALLBACK/BACKUP NOTIFICATIONS</u>				
•Radiopager notifications (Att.3)	X	X	X	X
•REQUEST State Police call non-responding towns (Att.3)		X	X	X
<u>OTHER:</u>				
•ENS notification to NRC (b)	X	X	X	X
•NRC Resident notification	X	X	X	X

NOTES:

- a. An Unusual Event (Delta-One or Delta-Two) may be terminated in the initial report if additional information has been reported.
- b. Due to notification to State of CT.

<p align="center">Level of Use General</p>
--

STOP THINK ACT REVIEW

Attachment 7

Preparing and Transmitting an Incident Report Form (IRF)

(Sheet 1 of 5)

1. Logging on to RapidReach
 - 1.1 OPEN "RapidReach Primary" folder.
 - 1.2 DOUBLE CLICK on "RapidReach" icon.
 - 1.3 At "RapidReach login" screen, SELECT "Shift Tech" as user and SELECT "OK."
 - 1.4 At "Password" screen, ENTER password and SELECT "OK."
 - 1.5 IF "RapidReach Primary" is *not* operable, OPEN "RapidReach Secondary" folder and Go To step 1.2.
 - 1.6 WHEN "OverView" screen appears, MINIMIZE screen.
2. Logging on to EasyView
 - 2.1 DOUBLE CLICK on "EasyView" screen.
 - 2.2 At "EasyView" screen, SELECT "Shift Tech" as user and SELECT "OK."
 - 2.3 At "Password" screen, ENTER password and SELECT "OK."
 - 2.4 WHEN "EasyView" screen appears, MINIMIZE screen.
3. Transmitting a Message using EasyView Remote Capability
 - 3.1 SELECT phone link icon from "RapidReach Primary" or "RapidReach Secondary" folder.
 - 3.2 OPEN "EasyView Remote" icon.
 - 3.3 SELECT "Shift Tech" as user and SELECT "OK."
 - 3.4 At "Password" screen, ENTER password and SELECT "OK."
 - 3.5 On "EasyView" screen, SELECT appropriate scenario from menu.
 - 3.6 SELECT "lightning bolt" icon.
 - 3.7 WHEN "Start of Scenario" screen appears, SELECT "Set Common Message."
 - 3.8 At "Root" tree, SELECT appropriate message (i.e., "Emergency Call-outs," etc.)

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4404

Rev. 5

34 of 39

Attachment 7

Preparing and Transmitting an Incident Report Form (IRF)

(Sheet 2 of 5)

- 3.9 SELECT "OK."
- 3.10 WHEN "Start of Scenario" screen appears, SELECT "Start."
- 3.11 VERIFY page sent by monitoring "EasyView" screen.
- 4. Entering IRF Data into ENRS
 - 4.1 DOUBLE CLICK on "Form" icon.
 - 4.2 ENTER event information into IRF template.
 - 4.3 SELECT appropriate printer name and SELECT "OK."
 - 4.4 PRINT IRF and VERIFY information is correct.
 - 4.5 IF information on IRF printout is *not* correct, EDIT template and PRINT IRF.
 - 4.6 SAVE IRF.

NOTE

Saving the IRF form to "Print-to-Image" attaches the fax to the radiopager message.

- 4.7 PERFORM the following to save IRF image for fax and radiopaging purposes:
 - a. SELECT "File" and SELECT "Print."
 - b. SELECT "Print-2-Image," and SELECT "OK."
 - c. SELECT appropriate setup from "Select configuration box."
 - d. SELECT "OK."
 - e. CLICK on "Root" tree folder in "Select message to fax," screen.
 - f. SELECT appropriate information from Root tree. (e.g., Emergency Call-outs, etc.)
 - g. WHEN all selections are complete, SELECT "OK."
- 4.8 MINIMIZE IRF form, as necessary.

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4404

Rev. 5

35 of 39

Attachment 7
Preparing and Transmitting an Incident Report Form (IRF)
(Sheet 3 of 5)

5. Recording IRF Data into ENRS

- 5.1 MAXIMIZE "RapidReach" screen and SELECT "microphone" icon (Show Message Window).
- 5.2 DOUBLE CLICK on "Root" tree.

NOTE

"Informational Message" is selected when recording IRF data.

- 5.3 SELECT "Informational Message."
- 5.4 Under "Audio Message," SELECT "microphone" icon.
- 5.5 WHEN "Record" screen appears, SELECT "Rec" button.
- 5.6 After recording entire IRF, SELECT "Stop."
- 5.7 SELECT "Play" and VERIFY recorded information is all of the following:
 - correct
 - clear
 - audible
- 5.8 IF step 5.7 is *not* true, Go To step 5.5.
- 5.9 SELECT "OK."
- 5.10 OBTAIN SM or EOF DSEO signature on written IRF.
- 5.11 MINIMIZE "RapidReach" screen.

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4404
Rev. 5
36 of 39

Attachment 7
Preparing and Transmitting an Incident Report Form (IRF)
(Sheet 4 of 5)

6. Transmitting IRF Message

- 6.1 SELECT "EasyView" screen and SELECT appropriate scenario from menu.
- 6.2 SELECT "lightning bolt" icon.
- 6.3 WHEN "Start of Scenario" appears, SELECT "Set Common Message."
- 6.4 At "Root" tree, SELECT appropriate message (i.e., "Emergency Call-outs," etc.).
- 6.5 SELECT "OK."
- 6.6 WHEN "Start of Scenario" screen appears, SELECT "Start."

7. Callback Verification (CV)

NOTE

"Overview" screen will display callout status.

- 7.1 To verify radiopage sent, MONITOR "Easyview" screen and VERIFY controlled console radiopager activates.
- 7.2 SELECT "RapidReach" screen and MONITOR callbacks on "Overview" screen.
 - 7.2.1 SELECT most recent scenario number from call-out grid box (the top box).
 - 7.2.2 MONITOR "Individuals in group" box for status and response.
- 7.3 MONITOR screen as positions call back, acknowledging page.
- 7.4 To reset printer, SELECT "File" and SELECT "Printer Setup."
- 7.5 IF necessary, RESET printer selected.
- 7.6 On "Overview" screen, PRINT "Groups-in-callout" callback verification report.
- 7.7 FAX SERO results to MOR.

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4404

Rev. 5

37 of 39

Attachment 7
Preparing and Transmitting an Incident Report Form (IRF)
(Sheet 5 of 5)

8. Restoration of General Default Message

- 8.1 At "RapidReach" screen, SELECT "Show Message Window" button.
- 8.2 DOUBLE CLICK on "Root" tree.
- 8.3 SELECT "Informational Message."
- 8.4 Under "Audio Message," SELECT "microphone" icon.
- 8.5 WHEN "Record" screen appears, SELECT "Rec" button.
- 8.6 RECORD the following:
 - "There is no information presently available for Millstone Station."
- 8.7 WHEN message has been recorded, SELECT "Stop."
- 8.8 SELECT "Play" and VERIFY recorded information is all of the following:
 - correct
 - clear
 - audible
- 8.9 IF step 8.8 is *not* true, Go To step 8.5.
- 8.10 SELECT "OK."
- 8.11 From "Root" tree, SELECT event message used (Emergency Call-outs, etc.).
- 8.12 SELECT red subtraction button in fax box on lower right of screen.
- 8.13 SELECT "Yes" to delete and OBSERVE "Same as alpha pager" in fax message box.
- 8.14 SELECT "File" and SELECT "Exit."
- 8.15 CLOSE the following, as necessary:
 - RapidReach window
 - EasyView window
 - IRF form

Level of Use
General

STOP

THINK

ACT

REVIEW

EPIP 4404

Rev. 5

38 of 39

Attachment 8
Switching Telephone Lines
(Sheet 1 of 1)

NOTE

If the ENRS primary phone server is down, a communication failure has occurred. Telephone lines will need to be switched to the secondary phone server.

1. **IF** primary system is down, **LIFT** the dedicated ENRS handset.
2. **PRESS** position "G" labelled "Press for SERO transfer."
3. **DIAL** "2724."
4. **WAIT** for confirmation tone (3 beeps).
5. **IF** confirmation tone is *not* heard, **Go To** step 1.

NOTE

The light will stay on to indicate the successful transfer of telephone lines.

6. **REPLACE** handset and **OBSERVE** light on position "G" illuminates, indicating transfer of SERO telephone lines.
7. **LIFT** the dedicated ENRS handset again.
8. **PRESS** position "I" labelled "Press for State/Local transfer."
9. **OBSERVE** the following:
 - 9.1 Light on position "I" will illuminate for a few seconds and then turn off.
 - 9.2 Light on position "H" will illuminate and stay on, indicating transfer of State/Local lines.
10. **REPLACE** handset.
11. **IF** either **OR** both lights fail to illuminate, **Go To** step 8.

Level of Use
General

STOP

THINK

ACT

REVIEW

EP/IP 4404
Rev. 5
39 of 39

Docket Nos. 50-245
50-336
50-423
B17947

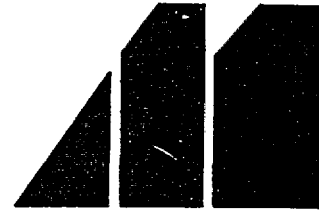
Attachment 5

Millstone Nuclear Power Station, Unit Nos. 1, 2, and 3

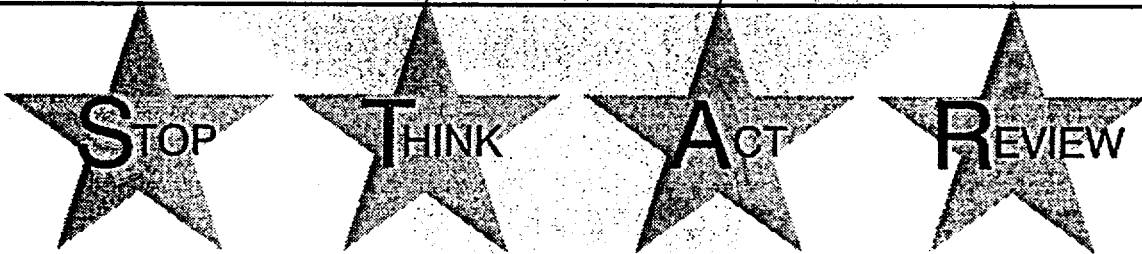
Emergency Plan Operating Procedure 4475, Revision 3, Change 1
Manager of Resources

December 1999

**MILLSTONE NUCLEAR POWER STATION
EMERGENCY PLAN OPERATING PROCEDURE**



Manager of Resources
EPOP 4475
Rev. 3



Approval Date: 5-5-99

Effective Date: 5-12-99

**Level of Use
Information**

**Responsible Individual:
Manager EPSD
Subject Matter Expert:
D. G. Aloï**

**Millstone All Units
Emergency Plan Operating Procedure**

Manager of Resources

TABLE OF CONTENTS

1.	PURPOSE	2
2.	PREREQUISITES	2
3.	PRECAUTIONS	3
4.	INSTRUCTIONS	4
	4.1 Initial Actions	4
	4.2 Subsequent Actions	5
5.	REVIEW AND SIGNOFF	9
6.	REFERENCES	9
7.	SUMMARY OF CHANGES	9
	ATTACHMENTS AND FORMS	
	Attachment 1, "Fitness for Duty Questionnaire"	10
	Attachment 2, "SERO Facility Shift Staffing"	11

**Level of Use
Information**

STOP THINK ACT REVIEW

EPOP 4475
Rev. 3 Chg 1
1 of 15

1. PURPOSE

1.1 Objective

Provide guidance to the Manager of Resources (MOR) for emergency response actions during an event which activates the SERO. These actions include:

- Providing station personnel, equipment, or supplies requested by SERO managers
- Directing the ERC to acquire off-site resources
- Coordinating support requests from federal regulatory agencies that have responded to Millstone Station

1.2 Discussion

SERO activation is initiated upon declaration of an ALERT, Posture Code Charlie-One, or higher event.

The MOR is stationed in the EOF and reports directly to the EOF DSEO.

2. PREREQUISITES

2.1 General

N/A

2.2 Documents

2.2.1 MOR Logbook

2.2.2 EPUG 08B, "Millstone Emergency Plan Resource Book"

2.3 Definitions

2.3.1 ADEOF – Assistant Director Emergency Operations Facility

2.3.2 ADTS – Assistant Director Technical Support

2.3.3 AMRDA – Assistant Manager Radiological Dose Assessment

Level of Use
Information

STOP

THINK

ACT

REVIEW

EPOP 4475

Rev. 3 Chg 1

2 of 15

- 2.3.4 AMT – Accident Management Team
- 2.3.5 ARPS – Assistant Radiation Protection Supervisor
- 2.3.6 ASK – To request
- 2.3.7 CRDC – Control Room Data Coordinator
- 2.3.8 ERC – External Resources Coordinator
- 2.3.9 ERF – Emergency Response Facility
- 2.3.10 FTDC – Field Team Data Coordinator
- 2.3.11 GTS – Generation Test Services
- 2.3.12 MCRO – Manager of Control Room Operations
- 2.3.13 MOC – Manager of Communications
- 2.3.14 MOS – Manager of Security
- 2.3.15 MOSC – Manager of Operational Support Center
- 2.3.16 MPI – Manager of Public Information
- 2.3.17 MRCA – Manager of Radiological Consequence Assessment
- 2.3.18 MRDA – Manager of Radiological Dose Assessment
- 2.3.19 MTSC – Manager of Technical Support Center
- 2.3.20 RAE – Radiological Assessment Engineer
- 2.3.21 STA – Shift Technical Advisor
- 2.3.22 TIC – Technical Information Coordinator
- 2.3.23 US – Unit Supervisor

3. PRECAUTIONS

N/A

Level of Use
Information

STOP

THINK

ACT

REVIEW

EPOP 4475
Rev. 3 Chg 1
3 of 15

4. INSTRUCTIONS

4.1 Initial Actions

- 4.1.1 INDICATE EOF presence on SERO Staffing Board.
- 4.1.2 RECORD date and EOF arrival time in the MOR logbook.
- 4.1.3 NOTIFY the EOF DSEO of arrival.
- 4.1.4 OBTAIN SERO call-back data and OBSERVE status of SERO call-back response. | ①
- 4.1.5 MAINTAIN a record of significant communications and events in the logbook.
- 4.1.6 DETERMINE if any essential resources are needed.
- 4.1.7 IF minimum staffing positions have not been contacted, PERFORM the following:
 - a. OBTAIN qualified personnel from OSC Assembly Area.
 - b. IF qualified personnel are not in OSC Assembly Area, Refer To EPUG 08B "Millstone Emergency Plan Resource Book," and NOTIFY an individual for each unstaffed position.
 - c. Refer To Attachment 1 and DETERMINE if notified personnel are fit for duty.
 - d. IF notified personnel are determined fit for duty, REQUEST personnel report to assigned ERF.
- 4.1.8 RECORD names of minimum staffing SERO personnel responding to on-site ERFs on Attachment 2.

– End of Section 4.1 –

Level of Use
Information

STOP THINK ACT REVIEW

EPOP 4475
Rev. 3 Chg 1
4 of 15

4.2 Subsequent Actions

NOTE

Steps in Section 4.2 are repeated, as necessary.

- 4.2.1 **RESPOND** to requests for additional personnel.
- 4.2.2 **IF** qualified personnel are not in OSC Assembly Area, Refer To EPUG 08B, "Millstone Emergency Plan Resource Book," and **CONTACT** individuals.
- 4.2.3 Refer To Attachment 1 and **DETERMINE** if notified personnel are fit for duty.
- 4.2.4 **IF** notified personnel are determined fit for duty, **REQUEST** personnel report to EOF.
- 4.2.5 **SUPERVISE** assembly of SERO additional support personnel reporting to EOF.
- 4.2.6 **COORDINATE** transportation of additional support personnel to respective ERFs as follows:
 - **CONSULT** MRDA to determine safe access routes for transportation of personnel from EOF to the station.
 - **ISSUE** Emergency Vehicle Pass to each vehicle transporting personnel from EOF to the station.
- 4.2.7 **CONSULT** EOF DSEO to determine the need for outside agency assistance.

Level of Use
Information

STOP THINK ACT REVIEW

EPOP 4475
Rev. 3 Chg 1
5 of 15

4.2.8 IF outside agency assistance is determined, DIRECT External Resources Coordinator obtain additional outside agency assistance.

4.2.9 COORDINATE provision of the following services with the External Resources Coordinator, as necessary:

- Additional personnel
- Transportation services
- Commissary services
- Lodging
- Equipment and logistics support
- Administration of petty cash, expense accounts, and payroll matters

4.2.10 IF petty cash reserves are needed, Refer To EPUG 08B, Attachment 5, and NOTIFY Cash Management of the need.

4.2.11 PREPARE for shift relief as follows:

- a. CONSULT EOF DSEO and SERO managers to determine shift relief personnel requirements.
- b. NOTIFY personnel of the following:
 - Shift assignment
 - Shift duration
 - Reporting time
 - Reporting location
- c. RECORD shift assignments next to position on Attachment 2 and DESIGNATE as shift 1, 2, or 3.
- d. IF any personnel currently on-site are to be used for shift relief, OBTAIN EOF DSEO approval and DIRECT personnel to report home and stand by for shift relief notification.

Level of Use
Information

STOP THINK ACT REVIEW

EPOP 4475
Rev. 3 Chg 1
6 of 15

4.2.12 **PROVIDE** the following support, as requested:

- NRC site team
- Supporting organizations

NOTE

The following events may require large amounts of bottled breathing air:

- Environmental or radiological release that threatens control room habitability
- Fire or chemical release
- Conditions projected to exhaust or restrict access to SCBA deployment on-site

4.2.13 **IF** event requires large amounts of bottled breathing air, **PERFORM** the following, as necessary:

- **REQUEST** Millstone Fire Training Facility personnel provide the following, as applicable:
 - Additional bottles
 - Refills
 - Additional SCBAs for relief teams



CAUTION



Refills are usually provided from a cascade system of storage tanks replenished by a compressor. Running the compressor at a facility on or near the site during a radiological release may contaminate the air in the cascade system.

- **IF** a radiological event is in progress and the Fire Training cascade system requires filling by compressor, Refer To EPUG 08B, Attachment 2, "Emergency Equipment/Resources," and REQUEST off-site organizations refill bottles.
- **COORDINATE** transport of bottles between points of use and refill facilities.

4.2.14 **WHEN** plant conditions stabilize **OR** improve, **PROVIDE** support to EOF DSEO for the following:

- De-escalation
- Termination
- Transition to recovery operations

– End of Section 4.2 –

Level of Use
Information

STOP

THINK

ACT

REVIEW

EPOP 4475
Rev. 3 Chg 1
8 of 15

5. REVIEW AND SIGNOFF

N/A

6. REFERENCES

- 6.1 "Final Safety Analysis Report Unit 1," Appendix G
- 6.2 "Final Safety Analysis Report Unit 2," Appendix 12A
- 6.3 "Final Safety Analysis Report Unit 3," Section 13.3
- 6.4 "Millstone Nuclear Power Station Emergency Plan"
- 6.5 NUREG-0654, Revision 1, "Criteria for Preparation and Evaluation of Emergency Response Plans and Preparedness in Support of Nuclear Power Plants"
- 6.6 NUREG-0737, "Clarification of TMI Action Plan Requirements, Supplement 1, Requirements for Emergency Response Capability"
- 6.7 EPIP 4404, "Notifications and Communications"
- 6.8 EPOP 4411, "Director of Station Emergency Operations"
- 6.9 EPOP 4424, "Manager of Radiological Consequence Assessment"
- 6.10 EPOP 4480, "Manager of Security"

7. SUMMARY OF CHANGES

- 7.1 Changed step 4.1.4 to delete obtaining fax from MOC's office. This is not an automatic feature of the new notification system.
- 7.2 Deleted step 4.1.7 that directed the MOS to perform back-up notifications.

Level of Use
Information

STOP

THINK

ACT

REVIEW

EPOP 4475

Rev. 3 Chg 1

9 of 15

Attachment 1
Fitness For Duty Questionnaire
(Sheet 1 of 1)

1. ASK each individual called in for unscheduled SERO duties the following questions:

1.1	Are you available for unscheduled work?	YES	NO
1.2	Have you taken any medication or drugs, or consumed alcohol, which might affect your ability to perform assigned duties?	YES	NO
1.3	Have you consumed any alcoholic beverages within the past five (5) hours?	YES	NO
1.4	Do you feel fit to perform your assigned duties?	YES	NO

2. **IF** the responses to all questions are within the unshaded boxes, **INSTRUCT** the individual to report to the EOF.
3. **IF** the response to any question is within a shaded box, **CONTACT** the next listed individual qualified to fill the position.
4. **IF** no individual can be found who responds within only unshaded boxes, **EVALUATE** those individuals contacted as follows:
 - 4.1 **IF** the individual responded "YES" to question 1.2 **OR** 1.3, **DETERMINE** the extent of substance usage.
 - 4.2 **IF** the individual states he feels fit to perform his assigned duties **AND** the individual's skills are essential, **TAKE** appropriate measures to ensure the safety of the individual, public, fellow employees, and company property.
5. **IF** assistance in evaluating responses from Section 4. is necessary, **CONSULT** the EOF DSEO to determine the extent and approval of alternative measures.

Level of Use Information

STOP THINK ACT REVIEW

Attachment 2
SERO Facility Shift Staffing
 (Sheet 1 of 5)

EOF

Minimum Staffing

DSEO _____
 ADEOF _____
 Shift Technician _____
 MRDA _____
 RMT HP _____
 RMT Driver _____
 MOC _____
 MOR _____
 MRCA _____
 NAP HP _____
 SAP HP _____
 EOF HP Technician _____

Augmented Staff

MOC _____
 ERC _____
 CRDC (3) _____
 MOS _____
 MPI _____
 TIC (3) _____
 RMT HP (2) _____
 RMT Driver (2) _____
 AMRDA _____
 FTDC _____
 MET Team _____
 RAE _____
 NAP HP _____
 SAP HP _____
 RAD Communicator _____
 Prem Operator _____

**Level of Use
 Information**

STOP THINK ACT REVIEW

Attachment 2
SERO Facility Shift Staffing
 (Sheet 2 of 5)

TSC/OSC

Minimum Staffing

ADTS	_____
MTSC	_____
TSC Elect Eng.	_____
TSC Mech Eng	_____
AMT Mech	_____
GTS	_____
MOSC	_____
ARPS	_____
Mechanic	_____
I&C Technician	_____
Electrician	_____
Reactor Engineer	_____

Augmented Staff

TSC Elect Eng (2)	_____	_____		
TSC Mech Eng (2)	_____	_____		
AMT Lead	_____			
AMT Therm Hydr Eng	_____			
MTSC (2)	_____	_____		
ADTS (2)	_____	_____		
SRO (3)	_____	_____	_____	
MOSC (2)	_____	_____		
HP Technician (4)	_____	_____	_____	_____
I&C Technician (2)	_____	_____		
Electrician (2)	_____	_____		
OSC Assistant I&C (3)	_____	_____	_____	
OSC Assistant Maint (3)	_____	_____	_____	
Chemistry Technician (2)	_____	_____		
EMT/ Fire Brigade (2)	_____	_____		

<p>Level of Use Information</p>
--

STOP THINK ACT REVIEW

Attachment 2
SERO Facility Shift Staffing
(Sheet 3 of 5)

OSC Assembly Area

Mechanics	_____
Electricians	_____
I&C Technicians	_____
H. P. Technicians	_____
GTS	_____
Administration	_____
Maintenance Supervisors	_____
Engineers	_____
Chemistry	_____
PMMS Planner	_____
Operations	_____
Others:	
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

**Level of Use
Information**

STOP THINK ACT REVIEW

Attachment 2
SERO Facility Shift Staffing
(Sheet 4 of 5)

Control Room – Units 2 or 3

Unit Supervisor _____

STA _____

RO (2) _____

PEO (3) _____

MCRO _____

Station Duty Officer _____

RMT #1 _____

Chem Technician _____

Shift Technician _____

CRDC _____

Control Room – Unit 1

MCRO
(Certified Fuel Handler) _____

Non Certified
Operator _____

RMT #1 _____

Chem Technician _____

Shift Technician _____

Station Duty Officer _____

CRDC _____

**Level of Use
Information**

STOP THINK ACT REVIEW

Attachment 2
SERO Facility Shift Staffing
(Sheet 5 of 5)

Media Center

Executive Spokesperson

Technical Assistant

Technical Briefer

Radiological Briefer

Nuclear News Manager

Level of Use
Information

STOP

THINK

ACT

REVIEW

EPOP 4475
Rev. 3 Chg 1
15 of 15

Docket Nos. 50-245
50-336
50-423
B17947

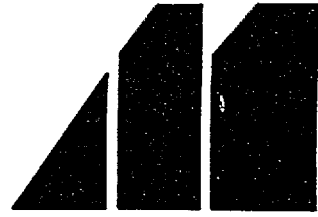
Attachment 6

Millstone Nuclear Power Station, Unit Nos. 1, 2, and 3

Common Operating Procedure 606, Revision 3
Communications - Radiopaging and Callback Monthly Operability Test

December 1999

MILLSTONE NUCLEAR POWER STATION
COMMON OPERATING PROCEDURE



STOP

THINK

ACT

REVIEW

**Communications – Radiopaging and Callback
Monthly Operability Test**

C-OP 606

Rev. 3

Approval Date: 9-10-99

Effective Date: 12-16-99

Level of Use
General

**Millstone All Units
Common Operating Procedure**

Communications – Radiopaging and Callback Monthly Operability Test

TABLE OF CONTENTS

1.	PURPOSE	2
2.	PREREQUISITES	3
3.	PRECAUTIONS	4
4.	INSTRUCTIONS	5
4.1	Initial Signoff	5
4.2	Preparing/Recording Drill Announcement on ENRS	6
4.3	Transmitting ENRS Drill Announcement	9
4.4	Monitoring and Callback Verification	10
4.5	Restoration from Testing	12
4.6	ENRS Failure	14
4.7	Acceptance Criteria	15
5.	REVIEW AND SIGNOFF	17
6.	REFERENCES	17
7.	SUMMARY OF CHANGES	17
ATTACHMENTS AND FORMS		
	Attachment 1, "Communications – Radiopaging and Callback Monthly Operability Test"	20
	Attachment 2, "Drill Announcement Message for IRF Template"	22
	Attachment 3, "SERO On–Call Position Listing"	23
	Attachment 4, "SERO Subject to Call Position Listing"	24
	Attachment 5, "Switching Telephone Lines"	25

Level of Use
General

STOP THINK ACT REVIEW

C-OP 606
Rev. 3
1 of 25

1. PURPOSE

1.1 Objective

This procedure provides instructions to test the Emergency Notification and Response System (ENRS) for State and Local officials, and SERO, and the public address system which are components of the Millstone ENRS. Performance of this procedure ensures these components are operable and can satisfy the requirements of 10CFR50 Appendix E.

1.2 Discussion

This procedure is performed by the Unit 3 Shift Technician or another qualified ENRS operator.

This procedure ensures capabilities exist to notify and verify response by State and Local officials within the EPZ as well as Station Emergency Response Organization (SERO) personnel in the event of an actual emergency.

C-OP 608, "Communications – Radiopaging and ENRS Daily and Weekly Operability Tests," is *not* required on the day of this test.

Attachment 2, "Drill Announcement Message for IRF Template," is the Incident Report Form (IRF) to be used for this operability test.

1.3 Applicability

This procedure is applicable in all modes.

1.4 Frequency

This procedure is tested monthly. State and Local Officials shall be tested on the first Wednesday of each month at 1000 hours \pm 5 minutes. If the first Wednesday is a holiday, the test is performed on the following Thursday. If the first Wednesday is a drill or exercise day, the test may be exempted and performed on the following Thursday upon approval of the Manager of Emergency Planning Services Department.

SERO notification testing shall be conducted monthly under the direction of the Manager of Emergency Planning Services Department with concurrence of the Unit 3 Shift Manager. This test may be combined with the State and Local official test. State and Local Officials may be included in the monthly unannounced SERO test with the State Office of Emergency Management approval and authorization of the Manager of Emergency Planning Services Department.

Level of Use
General

STOP

THINK

ACT

REVIEW

C-OP 606

Rev. 3

2 of 25

2. PREREQUISITES

2.1 General

- 2.1.1 Manager of Emergency Planning Services Department or Designee has authorized off-normal hours testing and signed and dated Attachment 1.
- 2.1.2 SM or US has authorized test and signed and dated Attachment 1.
- 2.1.3 ENRS Operator has ensured no event in progress which would require prompt release message by contacting the following, if appropriate:
 - Unit 1 at extension 4260 (SM) or 4252
 - Unit 2 at extension 4360 (SM) or 4352
 - Unit 3 at extension 4322 (SM) or 6200
- 2.1.4 ENRS Operator is familiar with equipment operation.
- 2.1.5 SERO controlled console pager or equivalent is in the control room to monitor receipt of page.
- 2.1.6 ENRS phone server on-line.
- 2.1.7 ENRS monitor brightness is adjusted appropriately.

2.2 Documents

- 2.2.1 EPUG-08B, "Millstone Emergency Plan Resource Book"
- 2.2.2 RP 4, "Corrective Action"
- 2.2.3 WC 1, "Work Control"

2.3 Personnel

2.3.1 The following are responsible for calling in within designated timeframes to acknowledge the receipt of test announcement, as appropriate:

- Station Emergency Response Organization on-call personnel
- Station Emergency Response Organization subject-to-call personnel
- State and Local Officials

2.4 Responsibilities

2.4.1 Manager of Emergency Planning Services Department or Designee is responsible for authorizing off-normal hours testing.

2.4.2 SM or US is responsible for authorizing test.

2.5 Definitions

2.5.1 CV – Callback Verification (i.e., “Groups-in-callout”)

2.5.2 MAXIMIZE – to restore

2.5.3 MINIMIZE – to shrink

2.5.4 PA – Public Address

2.5.5 PAGE – To contact using pager system

3. PRECAUTIONS

3.1 Failure to select correct message to transmit may result in unwarranted activation or the release of misinformation.

Level of Use
General

STOP

THINK

ACT

REVIEW

C-OP 606

Rev. 3

4 of 25

4. INSTRUCTIONS

4.1 Initial Signoff

4.1.1 Refer To Attachment 1 and INDICATE which of the following tests will be performed: --

- State and Local Officials (Partial Surveillance)
- SERO (Partial Surveillance)
- State and Local Officials and SERO

4.1.2 Refer To Section 2 and VERIFY prerequisites have been completed.

4.1.3 Refer To Section 3 and VERIFY precautions have been noted.

4.1.4 INITIAL and DATE "Prerequisites Completed" and "Precautions Noted" on Attachment 1.

4.1.5 IF SERO part of test, Refer To Attachment 1 and ENSURE SERO test has been authorized by Manager of Emergency Planning Services Department, as applicable, and Unit 3 Shift Manager.

– End of Section 4.1 –

Level of Use
General

STOP THINK ACT REVIEW

C-OP 606
Rev. 3
5 of 25

4.2 Preparing/Recording Drill Announcement on ENRS

4.2.1 Refer To Attachment 2, "Drill Announcement Message for IRF Template," and PERFORM the following at ENRS terminal for the communications drill:

- a. OPEN "RapidReach Primary" folder and DOUBLE CLICK on "RapidReach" icon.
- b. At "RapidReach login" screen, SELECT "Shift Tech" as user and SELECT "OK."
- c. At "Password" screen, ENTER password and SELECT "OK."
- d. IF first attempt to open "RapidReach" is *not* successful, Refer To Attachment 5, "Switching Telephone Lines," and TRANSFER to telephone backup system.
- e. IF first attempt to open "RapidReach" is *not* successful, Go To step 4.2.1.a. and OPEN "RapidReach Secondary" folder.
- f. IF "Overview" screen appears, MINIMIZE screen and Go To step 4.2.2.
- g. IF "RapidReach Primary" and "RapidReach Secondary" are *not* available, PERFORM the following:
 - 1) SELECT phone link icon from "RapidReach Primary" or "RapidReach Secondary" folder.
 - 2) OPEN "EasyView Remote" icon.
 - 3) SELECT "Shift Tech" as user and SELECT "OK."
 - 4) At "Password" screen, ENTER password and SELECT "OK."
 - 5) On "EasyView" screen, SELECT appropriate scenario from menu.
 - 6) SELECT "lightning bolt" icon.
 - 7) WHEN "Start of Scenario" screen appears, SELECT "Set Common Message."

Level of Use
General

STOP THINK ACT REVIEW

C-OP 606
Rev. 3
6 of 25

- 8) At "Root" tree, SELECT appropriate message (i.e., "Test Call-outs," "Call Into System" Page, etc.).
- 9) SELECT "OK."
- 10) WHEN "Start of Scenario" screen appears, SELECT "Start."
- 11) VERIFY page sent by monitoring "EasyView" screen.
- 12) OBTAIN SM signature on written IRF and Go To step 4.3.10.

4.2.2 To log on to "EasyView" and enter IRF data into ENRS, DOUBLE CLICK on "EasyView" icon.

- a. At "EasyView login" screen, SELECT "Shift Tech" as user and SELECT "OK."
- b. At "Password" screen, ENTER password and SELECT "OK."
- c. WHEN "EasyView" screen appears, MINIMIZE screen.
- d. DOUBLE CLICK on "Form" icon.
- e. Refer To Attachment 2, "Drill Announcement Message for IRF Template," and ENTER event information into IRF template, including "This is a drill" at the beginning and end of "Additional Information" section.
- f. PRINT IRF and VERIFY information is correct.
- g. IF information on IRF printout is *not* correct, EDIT template and PRINT IRF.
- h. SAVE IRF.

4.2.3 To save IRF image for fax and radiopaging purposes, PERFORM the following:

- a. SELECT "File" and "Print."
- b. SELECT "Print-2-Image" and SELECT "OK."

- c. From "Select configuration" box, SELECT appropriate setup and SELECT "OK."
- d. On "Select message to fax" screen, CLICK on "Root" tree.
- e. SELECT appropriate information from "Root"-tree (e.g. "Test Call-out," "Call Into System" Page, etc.)
- f. WHEN all selections are complete, SELECT "OK."
- g. MINIMIZE screen.

4.2.4 To record IRF Data into ENRS, PERFORM the following:

- a. MAXIMIZE "RapidReach" screen and SELECT "microphone" icon (Show Message Window).
- b. DOUBLE CLICK on "Root" tree.
- c. SELECT "Informational Message."
- d. Under "Audio Message," SELECT "microphone" icon.
- e. WHEN "Record" screen appears, SELECT "Rec" button.
- f. After recording entire IRF, SELECT "Stop."
- g. SELECT "Play" and VERIFY recorded information is all of the following:
 - correct
 - clear
 - audible
- h. IF step 4.2.4.g. is *not* true, Go To step 4.2.4.e.
- i. SELECT "OK"
- j. OBTAIN SM signature on written IRF.
- k. MINIMIZE "RapidReach" screen.
- l. INITIAL Attachment 1, sheet 2.

– End of Section 4.2 –

Level of Use
General

STOP THINK ACT REVIEW

C-OP 606

Rev. 3

8 of 25

4.3 Transmitting ENRS Drill Announcement

- 4.3.1 MAXIMIZE "EasyView" and SELECT appropriate scenario from menu.
- 4.3.2 SELECT "lightning bolt" icon.
- 4.3.3 WHEN "Start of Scenario" appears, SELECT "Set Common Message."
- 4.3.4 At "Root" tree, SELECT appropriate message (e.g., "Test Call-out," "Call Into System" Page, etc.).
- 4.3.5 SELECT "OK."
- 4.3.6 WHEN "Start of Scenario" screen appears, SELECT "Start."
- 4.3.7 To verify radiopage sent, MONITOR "EasyView" screen and VERIFY controlled console radiopager activates.
- 4.3.8 RECORD time on Attachment 1, Sheet 2.
- 4.3.9 IF page is *not* received on controlled console radiopager within 2 minutes, REPEAT Section 4.3 one time.
- 4.3.10 IF radiopager transmission has failed, Go To Section 4.6.

NOTE

The following announcement is made because historically, the station has had intermittent pager reception within some power block areas.

- 4.3.11 IF SERO is being tested, after SERO group page is verified, ANNOUNCE the following to station personnel using the plant priority PA system:

"Attention all station personnel.

There is a monthly communications drill in progress.

All SERO personnel required to respond, call in now.

There is a monthly communications drill in progress.

All SERO personnel required to respond, call in now."

- 4.3.12 RECORD announcement time on Attachment 1, Sheet 2.

– End of Section 4.3 –

Level of Use
General

STOP

THINK

ACT

REVIEW

C-OP 606

Rev. 3

9 of 25

4.4 Monitoring and Callback Verification

NOTE

1. Failure of more than half of the required State and Local Officials to respond following call-out transmission may be indicative of an equipment malfunction.
2. Callback verification via printed CV report cannot be performed from a "client" server if the radiopager message was transmitted via "EasyView Remote." This information can be obtained from Bldg. 475 server or EOF server only.

4.4.1 **VERIFY** page sent by monitoring "EasyView" screen.

4.4.2 **SELECT** "RapidReach" screen and **MONITOR** callbacks on "Overview" screen to ensure equipment is functioning and positions acknowledging page.

4.4.3 **IF** State and Local Officials are being tested, **PERFORM** the following:

a. **WHEN** approximately 30 minutes has elapsed since the drill announcement message was released, **PRINT CV report and IDENTIFY** non-responders required to call in.

b. Refer To EPUG 08B (Att 4) and **ATTEMPT** one call to each of the following required to call-in non-responders:

- State of CT DEP
- State and Local Town Officials

c. **DOCUMENT** results on Attachment 1, page 2.

4.4.4 **IF** SERO is being tested, **PERFORM** the following:

a. **WHEN** 30-60 minutes has elapsed since the message was released, **PRINT CV report and IDENTIFY** non-responders required to call in.

b. **CHECK** positions filled (responded) on Attachments 3 and 4.

c. Refer To EPUG 08B (Att 1), and **FILL** the SERO position by calling or paging a person listed for each non-responding SERO position.

Level of Use
General

STOP THINK ACT REVIEW

C-OP 606
Rev. 3
10 of 25

d. RECORD the name of the person filling the position on Attachment 3.

4.4.5 WHEN initial and backup notifications have been completed, PRINT CV report:

-
- a. To reset printer selection, SELECT "File" and SELECT "Printer Setup."
 - b. IF necessary, RESET printer selected.
 - c. On "Overview" screen, PRINT "Groups-in-callout" report.

NOTE

1. For State and Local test, overall drill results are considered satisfactory when all State and Local Officials respond within 30-60 minutes of pager initiation or are able to be contacted within 60 minutes.
2. For SERO test, overall drill results are considered satisfactory when all "on-call" positions are filled within 60 minutes of pager initiation (are able to be filled by either their initial response into the system, by the call-out function of the system or by filling the position by calling or paging a person for each non-responding SERO position). Any subsequent calls required to fill the positions are considered "UNSAT" conditions requiring documentation by CR and indicating drill "UNSAT" on Attachment 1, Sheet 2.

4.4.6 INITIAL "SAT" or "UNSAT" on Attachment 1, Sheet 2.

4.4.7 IF surveillance is "UNSAT," Refer To RP 4 and INITIATE a CR for follow-up investigation.

– End of Section 4.4 –

Level of Use
General

STOP

THINK

ACT

REVIEW

C-OP 606

Rev. 3

11 of 25

4.5 Restoration from Testing and Acceptance Criteria

4.5.1 ACTIVATE general default message as follows:

- a. SELECT "RapidReach" screen and SELECT "Show Message Window" button. --
- b. DOUBLE CLICK on "Root" tree folder.
- c. SELECT "Informational Message."
- d. Under "Audio Message," SELECT "microphone" icon.
- e. WHEN "Record" screen appears, SELECT "Rec" button.
- f. RECORD the following:
 - "There is no information presently available for Millstone Station."
- g. WHEN message has been recorded, SELECT "Stop."
- h. SELECT "Play" and VERIFY recorded information is all of the following:
 - correct
 - clear
 - audible
- i. IF step 4.5.1.h. is *not* true, Go To step 4.5.1.e.
- j. SELECT "OK."
- k. From "Root" tree, SELECT event message used (i.e., "Test call-out," "Call Into System," "Page, etc.).
- l. SELECT red subtraction button in fax box on lower right of screen.
- m. SELECT "Yes" to delete and OBSERVE "Same as alpha pager" in fax message box.
- n. SELECT "File" and "Exit" to deactivate call-out.

o. **CLOSE** the following, as necessary:

- **RapidReach** window
- **EasyView** window
- **IRF** form

– **End of Section 4.5** –

4.6 ENRS Failure

NOTE

ENRS system failure consists of at least one of the following: --

- no primary operability
- no secondary operability
- no remote operability

4.6.1 **IF** ENRS system fails, **PERFORM** backup notification using one of the following:

- a. Using SERO backup code, **ACTIVATE** NU paging system via telephone (NUWAPS) to issue numeric event code.
- b. **NOTIFY** SAS to transmit event code or text message.

4.6.2 **Go To** Step 4.3.11 and **ANNOUNCE** test for SERO.

– End of Section 4.6 –

Level of Use
General

STOP

THINK

ACT

REVIEW

C-OP 606

Rev. 3

14 of 25

4.7 Acceptance Criteria

4.7.1 **IF** acceptance criteria listed on Attachment 1 are *not* met, **PERFORM** the following:

a. **NOTIFY** affected unit SM or US of system problem and **PERFORM** the applicable action:

- Refer To WC 1 or RP 4 and SUBMIT TR/CR as appropriate.
- **IF** hardware related problem, Refer To EPUG-08B (Att 2) and REQUEST Information Technology repair hardware.
- **IF** software related problem, Refer to EPUG-08B (Att 1) and REQUEST EPSD support.
- **IF** telephone line problems are detected or reported, **PERFORM** one of the following actions:
 - **IF** during normal working hours, **NOTIFY** station Telecommunications.
 - **IF** after normal working hours, Refer To EPUG-08B (Att 1) and **NOTIFY** Telecommunications personnel.

b. **IF** any of the following have occurred, REQUEST SM or US mark "No" on Attachment 1, Sheet 1, "Acceptance Criteria Satisfied:"

- ENRS transmission failure
- Failure of any off-site organizations to call in or be contacted by follow-up call
- Failure of any SERO on-call position to be filled within 60 minutes

4.7.2 **IF** acceptance criteria has been satisfied, REQUEST SM or US mark "Yes" on Attachment 1, Sheet 1, "Acceptance Criteria Satisfied" and SIGN and DATE.

Level of Use
General

STOP

THINK

ACT

REVIEW

C-OP 606

Rev. 3

15 of 25

- 4.7.3 **COMPILE** surveillance package to include the following:
- All attachments
 - CV report, if applicable
 - Computer printout showing IRF release time, if applicable.
 - Any additional information from callbacks
- 4.7.4 **NOTIFY** Emergency Planning Services of "UNSAT" items (via telephone, voice mail, or E-Mail).
- 4.7.5 **SEND** copy of surveillance package to Station Emergency Planning Services Department.
- 4.7.6 **Refer To** NDM 1, "Turnover of Nuclear Records," and **SEND** original packages to Nuclear Document Services.

– End of Section 4.7 –

Level of Use
General

STOP THINK ACT REVIEW

C-OP 606
Rev. 3
16 of 25

5. REVIEW AND SIGNOFF

5.1 The review and signoff for this procedure is located in Attachment 1.

6. REFERENCES

- 6.1 10CFR50, Appendix E, "Emergency Planning and Preparedness for Production and Utilization Facilities," Sections D and E
- 6.2 NUREG 0654, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," Section N.2.A
- 6.3 EPAP 1.15, "Management Program for Maintaining Emergency Preparedness"
- 6.4 EPIP 4404, "Notifications and Communications"
- 6.5 C-OP 608, "Communications – Radiopaging and ENRS Daily and Weekly Operability Tests"

7. SUMMARY OF CHANGES

- 7.1 Incorporated previously SORC approved change 1 to revision 2.
- 7.2 This procedure was completely revised to reflect that the "old" ENRS system has been replaced by the "new" (RapidReach) ENRS system. To minimize confusion and maintain continuity, the system will continue to be simply referred to as ENRS. The following changes were made to reflect the new system.
 - 7.2.1 Changed 1.1 to define scope of ENRS test.
 - 7.2.2 Deleted SNS SERO pager in 1.1.
 - 7.2.3 Changed 2.1.5 from SNS SERO pager to SERO controlled console pager or equivalent.
 - 7.2.4 Deleted reference in Attachment 1 to the former ENRS system activation status. Added block for TR and CR numbers.
 - 7.2.5 Changed 2.3.1 to delete separate notification systems.
 - 7.2.6 Deleted 2.4.7 reference to SNS. Added new definitions and clarified callback verification report.

Level of Use
General

STOP THINK ACT REVIEW

C-OP 606
Rev. 3
17 of 25

- 7.2.7 Deleted 3.3.
- 7.2.8 Replaced instructions in 4.2 to reflect process for preparing and recording call-out announcement on new notification system.
- 7.2.9 Replaced instructions in 4.3 to reflect process for transmitting call-out announcement on new notification system.
- 7.2.10 Changed 4.4 to monitor callbacks on EasyView screen on new notification software for both State and local officials and SERO.
- 7.2.11 Changed 4.4.1 and 4.4.2 to reflect new process for monitoring callbacks.
- 7.2.12 Deleted 4.5.2, Security (CAS) is *not* responsible for activating SERO notification drills. Combined 4.5 with 4.3.
- 7.2.13 Deleted 4.5.6 NOTE referring to SNS callback verification. *not* applicable for new notification system.
- 7.2.14 Changed Attachment 2 to reflect new IRF content.
- 7.2.15 Changed Attachment 4 to reflect current on-call and subject-to-call positions.
- 7.2.16 Added new Attachment 5 for switching telephone lines if primary phone server is down.
- 7.3 Replaced instructions in 4.5.1 to reflect new process for restoring the default message.
- 7.4 Moved Precautions to Prerequisites.
- 7.5 Added Precaution to select correct message to transmit.
- 7.6 Changed 4.1.1 to reflect current paging group options.
- 7.7 Added 4.1.4 to allow for SERO testing with State and local testing.
- 7.8 Added 4.4.5 for printing final CV report.
- 7.9 Combined SERO test with State and Local test in 4.4.6 note box.
- 7.10 Added Section 4.6 for ENRS failure.
- 7.11 Added Section 4.7 for Acceptance Criteria.

Level of Use
General

STOP THINK ACT REVIEW

C-OP 606
Rev. 3
18 of 25

- 7.12 Added definitions to Section 2.4.
- 7.13 References to EPUG-02 were deleted from procedure as they are no longer applicable.
- 7.14 Changed Local Towns/Agencies in 1.4 and throughout to Local Officials. Clarified that this test may combine State and local officials and SERO.
- 7.15 Changed 2.1.1 to allow EPSD Manager or Designee to authorize off-normal hours test.
- 7.16 Changed 2.1.3 to ensure an event is *not* in progress which would require prompt release message be prepared.

Level of Use
General

STOP THINK ACT REVIEW

C-OP 606
Rev. 3
19 of 25

Attachment 1

Communications – Radiopaging and Callback Monthly Operability Test

(Sheet 1 of 2)

Generic Information

Form Title Communications – Radiopaging and Callback Monthly Operability Test and SERO Testing		Rev. No. 3
Reference Procedure C-OP 606	Applicable Tech. Spec. N/A	Frequency M, As required
This form is being used for the following: <input type="checkbox"/> Tech Spec Surveillance <input type="checkbox"/> System Alignment <input type="checkbox"/> Other: _____ <input type="checkbox"/> Maintenance Restoration (Retest) <input checked="" type="checkbox"/> Non-Tech Spec Surveillance (PM)		

Specific Information

Schedule Date	Applicable Mode ALL	Full Test	SERO	State and Local Officials
State Office of Emergency Management/Town Participation Authorized By Manager Emergency Planning Services <small>(Req'd for SERO only unscheduled testing, off normal hours testing)</small>	<input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 777 <input type="checkbox"/> 888	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Signature	Date	Date		
Authorized By (SM or US)		Date		
Prerequisites Completed (Initials)	Date	Precautions Noted (Initials)		
Performed By	Date	Acceptance Criteria Satisfied 4.7 <input type="checkbox"/> Yes <input type="checkbox"/> No		
Accepted By (SM or US)	Date			
Approved By (Department Head or Designee)	Date			
Manager of Emergency Planning Services has been notified of drill results <input type="checkbox"/>				

Surveillance Information		
Test Equipment Type	QA Number	Calibration Due Date
N/A	N/A	N/A

Comments:

- ENRS Test shall be conducted on the first Wednesday of each month at 1000 hours ± 5 minutes. If the first Wednesday is a holiday, the test is performed on the following Thursday. If the first Wednesday is a drill or exercise day, the test may be exempted and performed on the following Thursday upon approval of the Manager of Emergency Planning Services Department.
- SERO testing "may" be performed in conjunction with scheduled monthly ENRS test (as authorized by EPS) or on an unannounced basis as designated by EPS with concurrence of the on-shift SM. Distribution: Copy to Emergency Planning Services Department: _____

Initials Date

Level of Use
General

STOP THINK ACT REVIEW

C-OP 606
Rev. 3
20 of 25

Attachment 1

Communications – Radiopaging and Callback Monthly Operability Test

(Sheet 2 of 2)

State & Local Officials/SERO Notification

Step	Recording Verification		
4.2	Information is recorded, verified correct, and message is audible and clear	SAT (Init)	
	Recorded information and printed IRF verified correct and approved for release by SM		
	Callback Response	State and Local Officials respond within 60 minutes	
		SAT (Init)	UNSAT (Init)
4.4	State and Local Officials respond or are contacted within 30–60 minutes		
	Callback Response	SERO on–call personnel respond within 60 minutes	
		SAT (Init)	UNSAT (Init)
4.4	SERO personnel respond within 60 minutes		

SERO Activation

4.3	Time Controlled Console page received in Control Room	Time requested:	Time received:
4.3	Station PA announcement complete	Time:	

Restoration from Testing

4.7	TRs/CRs written:		
-----	------------------	--	--

Level of Use General

STOP THINK ACT REVIEW

C–OP 606
Rev. 3
21 of 25

Attachment 2

Drill Announcement Message for IRF Template

(Sheet 1 of 1)

- Please Check Appropriate Boxes -		
1	IRF#	
2	This report concerns an incident at: <input checked="" type="checkbox"/> Millstone Site <input type="checkbox"/> Millstone Unit 1 <input type="checkbox"/> Millstone Unit 2 <input type="checkbox"/> Millstone Unit 3	
3	This is: <input type="checkbox"/> A Drill - Report <input type="checkbox"/> A Utility Drill - Report This is: <input type="checkbox"/> NOT a Drill <input checked="" type="checkbox"/> A Drill - Not Report <input type="checkbox"/> A Utility Drill - Not Report <input checked="" type="checkbox"/> NOT Update <input type="checkbox"/> An Update	
4	I N C I D E N T C L A S S This is: <input checked="" type="checkbox"/> A Communications Drill <input type="checkbox"/> A Radioactive Materials Incident <input type="checkbox"/> A General Interest Event <input type="checkbox"/> An Unusual Event <input type="checkbox"/> An Alert <input type="checkbox"/> A Site Area Emergency <input type="checkbox"/> A General Emergency	P O S T U R E C O D E <input checked="" type="checkbox"/> A Communications Drill <input type="checkbox"/> Golf <input type="checkbox"/> Fox <input type="checkbox"/> Echo <input type="checkbox"/> Delta-One (No radiological release) <input type="checkbox"/> Delta-Two (Radiological Release) <input type="checkbox"/> Charlie-One <input type="checkbox"/> Charlie-Two <input type="checkbox"/> Bravo <input type="checkbox"/> Alpha
5	The event was classified on: Date _____ At _____ hrs (Military Time)	
6	The event involves: <input checked="" type="checkbox"/> No release of radioactivity <input type="checkbox"/> Potential release of radioactivity <input type="checkbox"/> Ongoing release of radioactivity <input type="checkbox"/> Terminated release of radioactivity	
7	Current Site Wind: At _____ hours (Military time) wind at the site is from _____° into the _____° at _____ mph <small>(In degrees) (In degrees)</small> <input type="checkbox"/> Meteorological data is unavailable at this time.	
8	Forecast Site Wind: <input checked="" type="checkbox"/> Not applicable (Type NA) <input type="checkbox"/> The wind is expected to shift at _____ hours (Military time) and blow from the _____° into the _____° at _____ mph. <small>(In degrees) (In degrees)</small>	
9	The plant status is: <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Degrading <input type="checkbox"/> Improving <input type="checkbox"/> Unchanged since last report	
10	Access to the site: <input type="checkbox"/> Has been restricted <input checked="" type="checkbox"/> Has not been restricted	
11	The following onsite services have been requested: <input type="checkbox"/> Police <input type="checkbox"/> Fire <input type="checkbox"/> Ambulance <input checked="" type="checkbox"/> None <input type="checkbox"/> Other	
12	A further report: <input type="checkbox"/> Will be given <input checked="" type="checkbox"/> Will not be given	
13	Additional Information THIS IS A DRILL. THIS IS A TEST OF THE MILLSTONE EMERGENCY NOTIFICATION AND RESPONSE SYSTEM. NO ADDITIONAL INFORMATION IS AVAILABLE. THIS IS A DRILL.	
14	Name (Person filling out report)	
15	Authorization Signature (SM for release of message):	Date: _____ Time: _____
16	And is being reported on: Date/Time: _____	

Level of Use
General

STOP THINK ACT REVIEW

C-OP 606
Rev. 3
22 of 25

Attachment 3
SERO On-Call Position Listing
(Sheet 1 of 1)

On Call Positions	Responded (✓)	Name (Called by Shift Tech)	On Call Positions	Responded (✓)	Name (Called by Shift Tech)
ADEOF			U1MOC		
AMTME			U1MOSC		
ARPS			U1MTSC		
DSEO			U1TSCEE		
EOFHP			U1TSCME		
EOFST			U2ADTS		
ES			U2ELEC		
GTS			U2MECH		
MOR			U2I&CTECH		
MPI			U2MOC		
MRCA			U2MOSC		
MRDA			U2MTSC		
NNM			U2TSCEE		
RMT3			U2TSCME		
RMT4			U3ADTS		
RMT5			U3ELEC		
RMTD			U3I&CTECH		
			U3MECH		
			U3MOC		
RMTA			U3MOSC		
RMTB			U3MTSC		
RMTC			U3TSCEE		
RMTD			U3TSCME		
TSCRE					
U1ADTS					
U1ELEC					
U1I&CTECH					
U1MECH					

Level of Use
General

STOP THINK ACT REVIEW

C-OP 606
Rev. 3
23 of 25

Attachment 4
SERO Subject to Call Position Listing
 (Sheet 1 of 1)

Subject to Call Positions	Responded (✓)	Name (Called by Shift Tech)	Subject to Call Positions	Responded (✓)	Name (Called by Shift Tech)
AMRDA			U1CRDC		
AMT/TH			U1I&COSC		--
AMTL			U1OSCMA		
ERC			U1TIC		
FTDC			U2CRDC		
MET			U2I&COSC		
MOS			U2TIC		
PREM			U3I&COSC		
RADCOM			U3OSCMA		
			U3TIC		
RAE			U3TSCSM		
TA					

Level of Use
General

STOP THINK ACT REVIEW

C-OP 606
 Rev. 3
 24 of 25

Attachment 5
Switching Telephone Lines

(Sheet 1 of 1)

NOTE

If the ENRS primary phone server is down, a communication failure has occurred. Telephone lines will need to be switched to the secondary phone server.

1. **IF** primary system is down, **LIFT** the dedicated ENRS handset.
2. **PRESS** position "G" labelled "Press for SERO transfer."
3. **DIAL** "2724."
4. **WAIT** for confirmation tone (3 beeps).
5. **IF** confirmation tone is *not* heard, Go To step 1.

NOTE

The light will stay on to indicate the successful transfer of telephone lines.

6. **REPLACE** handset and **OBSERVE** light on position "G" illuminates, indicating transfer of SERO telephone lines.
7. **LIFT** the dedicated ENRS handset again.
8. **PRESS** position "I" labelled "Press for State/Local transfer."
9. **OBSERVE** the following:
 - 9.1 Light on position "I" will illuminate for a few seconds and then turn off.
 - 9.2 Light on position "H" will illuminate and stay on, indicating transfer of State/Local lines.
10. **REPLACE** handset.
11. **IF** either **OR** both lights fail to illuminate, Go To step 8.

Level of Use
General

STOP

THINK

ACT

REVIEW

C-OP 606

Rev. 3

25 of 25

Docket Nos. 50-245

50-336

50-423

B17947

Attachment 7

Millstone Nuclear Power Station, Unit Nos. 1, 2, and 3

**Emergency Preparedness Administrative Procedure 1.15, Revision 5
Management Program for Maintaining Emergency Preparedness**

December 1999

**MILLSTONE NUCLEAR POWER STATION
EMERGENCY PREPAREDNESS ADMINISTRATIVE
PROCEDURE**

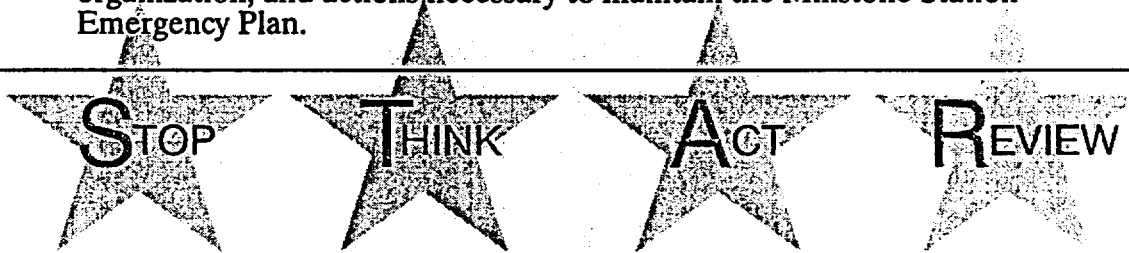


**Management Program for Maintaining
Emergency Preparedness**

EPAP 1.15

Rev. 5

This procedure describes sources of information, responsibilities, organization, and actions necessary to maintain the Millstone Station Emergency Plan.



Approval Date: 9-10-99

Effective Date: 12/16/99

Level of Use
Information

**Millstone All Units
Emergency Plan Administrative Procedure**

Management Program for Maintaining Emergency Preparedness

TABLE OF CONTENTS

1.	INSTRUCTIONS	3
1.1	Station Personnel	3
1.2	Responsibilities of the Manager Emergency Planning Services Department for Maintaining Emergency Preparedness	4
1.3	Station Management Actions for Maintaining Emergency Preparedness	6
1.4	SERO Personnel	10
1.5	On--Call Positions	13
1.6	Subject to Call Positions	16
1.7	On--Shift Positions	17
1.8	Drills and Exercises	18
1.9	Emergency Response Facilities and Equipment	20
1.10	Severe Accident Management	21
2.	REFERENCES	22
3.	COMMITMENTS	22
4.	SUMMARY OF CHANGES	22

ATTACHMENTS AND FORMS

Attachment 1, "Emergency Preparedness Abbreviations and Definitions" 24

Attachment 2, "Summary of Department Responsibilities for Facilities, Equipment, and Material Maintenance" 25

Attachment 3, "Emergency Response Facility Readiness Check Report Form" 29

Attachment 4, "Documentation of Testing of Dose Assessment Computer Program" 30

Attachment 5, "SERO Qualifications and Reporting Locations" 31

Attachment 6, "Roles and Responsibilities for Emergency Preparedness Dose Assessment" 39

Attachment 7, "Radiological Dose Assessment Committee at Northeast Utilities" 41

EPAP Form 1.15-1, "SERO Training and Qualification Record"

EPAP Form 1.15-2, "SERO Removal Form"

EPAP Form 1.15-3, "Unit Event Backup Codes"

1. INSTRUCTIONS

1.1 · Station Personnel

Additional personnel may be required to support the SERO in an emergency. These personnel are integrated into the organization as required by SERO Managers.

Station personnel may also be required to participate in station evacuation drills. Advance notification will be provided via station information notices.

– End of Section 1.1 –

1.2 Responsibilities of the Manager Emergency Planning Services Department for Maintaining Emergency Preparedness

The Manager Emergency Planning Services Department has overall responsibility for the Nuclear Emergency Preparedness Program and is the Chair of the Emergency Preparedness Curriculum Advisory Committee. Responsibilities are defined in Emergency Planning Services department instructions and procedures and NGP 2.04, "Nuclear Incidents Response and Recovery."

Manager
EPSD

- 1.2.1 RESPOND to emergency preparedness audits and evaluations.
- 1.2.2 IMPLEMENT SERO on-call schedules and performance reports.
- 1.2.3 DEVELOP and CONDUCT station drills and exercises.
- 1.2.4 REVIEW station procedures for impact on the Millstone Station Emergency Plan.
- 1.2.5 COORDINATE the development and distribution of emergency preparedness documents.
- 1.2.6 ESTABLISH position owners and DOCUMENT in Attachment 5.
- 1.2.7 PROVIDE SERO qualification status to Station Management on a routine basis.
- 1.2.8 PROVIDE listing of SERO members personal information to position owners for verification on a routine basis.
- 1.2.9 At least quarterly, PROVIDE SERO Roster to SERO organization.
- 1.2.10 REVIEW the development of emergency preparedness training curriculum.
- 1.2.11 ENSURE station personnel correct identified emergency preparedness deficiencies, weaknesses, and areas for improvement.
- 1.2.12 INITIATE station action items in accordance with the station corrective action program.

Level of Use
Information

STOP

THINK

ACT

REVIEW

EPAP 1.15
Rev. 5
4 of 41

- 1.2.13 Refer To Attachment 2, "Summary of Department Responsibilities for Facilities, Equipment, and Material Maintenance," and ENSURE responsible departments maintain emergency response in a state of readiness at all times.
- 1.2.14 Refer To EPAP Form 1.15-1, "SERO Training and Qualification Record," and COORDINATE completion of qualifications for each new SERO member.
- 1.2.15 ENSURE Millstone Station Emergency Plan and associated procedures are maintained.
- 1.2.16 Refer To Attachment 6, "Roles and Responsibilities for Emergency Preparedness Dose Assessment," and ENSURE areas of responsibility are carried out.
- 1.2.17 REVIEW information forwarded from Station Management in the area of emergency planning and response for possible adoption.

– End of Section 1.2 –

1.3 Station Management Actions for Maintaining Emergency Preparedness

CNO

- 1.3.1 ASSIGN SERO Team Captains.
- 1.3.2 ASSIGN Senior Management to DSEO position.

NOTE

Minimum staffing is two persons in any position in order to support extended event periods with at least two shifts (12 hours each)

Station Management

- 1.3.3 MAINTAIN a "4 team" rotation for SERO duty (i.e., red, white, blue, gold).
- 1.3.4 IF vacancies exist, ENSURE weekly rotation coverage is provided by remaining position holders during reduced staffing periods.
- 1.3.5 ENSURE adequate station support is provided for emergency preparedness functions.
- 1.3.6 AUTHORIZE the execution of drills and exercises.
- 1.3.7 ASSIGN actions to correct weaknesses and deficiencies.
- 1.3.8 ENSURE personnel within reporting chain who are assigned to SERO maintain their SERO qualifications.
- 1.3.9 Refer To and COMPLETE EPAP Form 1.15-1, "SERO Training and Qualification Record," to initiate assignment of personnel in your reporting chain to the SERO.
- 1.3.10 Refer To and COMPLETE EPAP Form 1.15-2, "SERO Removal Form," to initiate removal of personnel in your reporting chain from the SERO.
- 1.3.11 Refer to Attachment 5, "SERO Qualifications and Reporting Location," and REVIEW for assigned position owners.

Level of Use
Information

STOP

THINK

ACT

REVIEW

EPAP 1.15

Rev. 5

6 of 41

1.3.12 **REVIEW** and forward to the Manager EPSD, industry or regulatory information regarding any aspect of emergency planning or emergency response including but not limited to the following:

- Information from utility self–assessments
- NRC communications and proposed regulations
- Results of technical studies and assessments
- Information from ongoing research programs
- Lesson learned from training and drills

MP Directors →

1.3.13 **ENSURE** Department Managers provide personnel to support emergency preparedness activities.

1.3.14 **REVIEW** drill critiques and **ENSURE** applicable corrective actions are implemented.

1.3.15 **Refer To Attachment 2, “Summary of Department Responsibilities for Facilities, Equipment, and Material Maintenance,” and PROVIDE** a point of contact to the Manager EPSD for listed organizations.

Department Heads and Supervisors →

1.3.16 **Refer To Attachment 2 and PERFORM** the following:

- a. **ASSIGN** personnel to perform applicable actions.
- b. **VERIFY** actions are scheduled and documented as complete via one of the following:
 - AITTS
 - PMMS
 - Automated work order
 - Completion of inventory from applicable procedure, i.e., RPM 4.8.5, “Emergency Radiological Equipment Maintenance and Inspection.” (copy to EPSD)
 - Attachment 3, “Emergency Response Facility Readiness Check Report Form”

Level of Use
Information

STOP

THINK

ACT

REVIEW

EPAP 1.15

Rev. 5

7 of 41

- c. **VERIFY** emergency equipment and instruments are operationally available at least once each quarter and after each use.

1.3.17 **ENSURE** personnel are briefed on extent of drill participation.

1.3.18 **IF** requested by SERO Team Captains, **ASSIGN** personnel to SERO.

1.3.19 **ENSURE** the department list of SERO members in NUTIMS is current.

1.3.20 **IF** a SERO vacancy occurs, **NOTIFY** the following:

- a. Team Captain
- b. Position Owner
- c. Remaining SERO members for the position
- d. Manager EPSD

1.3.21 **PROVIDE** personnel to participate in emergency response scenario development, drills, and exercises.

1.3.22 **MAINTAIN** SERO on-call independent rotation schedules for the following positions:

- Electricians
- Mechanics
- RMTs
- HP Technicians
- GTS
- I&C Technicians

1.3.23 **OVERSEE** team activities including the following:

- Training attendance and continuing training
- Drill schedules
- Drill and exercise participation
- Approval of SERO team assignments and removals.

SERO Team Captains

Level of Use Information

STOP

THINK

ACT

REVIEW

EPAP 1.15
Rev. 5
8 of 41

1.3.24 ENSURE SERO on-call position rotation schedules are developed.

1.3.25 RESOLVE SERO staffing issues.

Position
Owners

1.3.26 MAINTAIN SERO position activities as follows:

- a. ASSIGN personnel to owned positions.
- b. COORDINATE with the following to fill existing or potential vacancies:
 - Team Captains
 - Emergency Planning Services
 - Training
- c. ENSURE position holders maintain qualifications.
- d. AUTHORIZE removal of individuals from SERO.
- e. NOTIFY other position holders of actual or pending vacancies and ESTABLISH formal rotation of duty to compensate for vacancy.
- f. MAINTAIN position staffing.

Radiological
Engineering
Supervisor
(SAB)

1.3.27 Refer To Attachment 6, "Roles & Responsibilities for Emergency Preparedness Dose Assessment," and ENSURE areas of responsibility are carried out.

RDAC

1.3.28 Refer To and IMPLEMENT Attachment 7, "Radiological Dose Assessment Committee at NU."

– End of Section 1.3 –

Level of Use
Information

STOP

THINK

ACT

REVIEW

EPAP 1.15
Rev. 5
9 of 41

1.4 SERO Personnel

It is the expectation of management that the SERO pager remain on, operable, and monitored so that emergency pager messages may be received and responded to appropriately.

If an emergency event occurs, pagers will display the following:

- Affected unit
- NRC classification
- State posture code
- Major EAL heading

1.4.1 Refer To Attachment 5, "SERO Qualifications and Reporting Location," and IDENTIFY reporting location.

1.4.2 IF pager fails to operate properly, OBTAIN a replacement from one of the following:

- During normal working hours, REQUEST EPSD provide replacement pager.
- After normal working hours, REQUEST Security Shift Supervisor provide replacement pager from NAP Security Office.

1.4.3 NOTIFY Manager EPSD of any changes to the following:

- Work extension
- Pager number
- Home phone number
- Employment status

1.4.4 Refer To Attachment 5 and NTP 7.212, "Training Program Description," and MAINTAIN job specific and SERO qualifications current.

On-Call and
Subject to
Call SERO
Members

1.4.5 Refer To Attachment 5 and **MAINTAIN** qualifications and proficiency for initial qualification of emergency response duties as follows:

- Refer To NTP 7.212, "Training Program Description," and **COMPLETE** SERO Training.
- **COMPLETE** respirator qualifications required by SERO position.
- **COMPLETE** radworker qualifications required by position.
- **MAINTAIN** "Fitness for Duty" program requirements.
- **MAINTAIN** station access required by assigned position.
- **MAINTAIN** job specific requirements including license or certification, as appropriate.

Level of Use
Information

STOP

THINK

ACT

REVIEW

EPAP 1.15
Rev. 5
11 of 41

1.4.6 MAINTAIN qualifications and proficiency for annual requalification by performing one of the following:

NOTE

1. This item does not apply to the following SERO members:
 - Chemistry Technicians
 - Electricians
 - Mechanics
 - RMTs
 - HP Technicians
 - GTS
 - I&C Technicians
 - Control Room Staff including PEOs and Shift Technician
 - Fire Brigade
 - Security Guards, Security Shift Supervisor, Alarm Station Supervisor
 - TSC Shift Manager
2. Exceptions to participation in drills may be made by Team Captain in consultation with EP Management on a case by case basis.

- **PERFORM** as the designated responder (not a called-in back-up) in at least one drill annually.
- **PERFORM** as drill controller or evaluator or position coach or mentor.

1.4.7 Refer To EPAP Form 1.15-2, "SERO Removal Form," for SERO rotation process and COMPLETE all information including the following:

- Individual being removed
- Replacement named to fill vacancy
- Approval and concurrences, as appropriate

- End of Section 1.4 -

**Level of Use
Information**

STOP

THINK

ACT

REVIEW

**EPAP 1.15
Rev. 5
12 of 41**

1.5 On-Call Positions

NOTE

Weekly on-call duty assignment turnover will be completed on Tuesday by 10:00 A. M.

On-Call and
On-Duty
SERO
Positions

1.5.1 **PERFORM** the following while on-call and on-duty:

- **ADHERE** to the fitness for duty policies.
- **REMAIN** within 60 minutes travel time of reporting location.
- **ACKNOWLEDGE** all pager activations.

1.5.2 **IF not** available for duty, **PERFORM** the following:

- a. **CONTACT** another qualified individual and **TRANSFER** duty to the individual, ensuring an understanding of the exact date and time of relief.
- b. **IF not** able to obtain a replacement, **PERFORM** the following:
 - During normal working hours, **CONTACT** any SERO Team Captain.
 - After normal working hours, **NOTIFY** the Unit 3 Control Room Shift Technician.

Level of Use
Information

STOP

THINK

ACT

REVIEW.

EPAP 1.15

Rev. 5

13 of 41

On-Call and
Not On-Duty
SERO
Positions

1.5.3 **IF** on-call and *not* on-duty, **PERFORM** the following:

NOTE

The approximate 10 minute wait to acknowledge pager activations is to allow for initial calls by on-call and on-duty responders to access the system.

- a. **IF** fit for duty **AND** within 60 minutes travel time of reporting location, **ACKNOWLEDGE** all pager activations after waiting approximately 10 minutes.
- b. **IF** *not* fit for duty and contacted by the MOR, **COMPLY** with the instructions provided.

1.5.4 Using SERO call-in card, **PERFORM** the following to acknowledge pager activations:

NOTE

For open positions, the caller will be instructed to report. For filled positions, subsequent callers will be directed to remain available.

If a position is not acknowledged, the vendor will automatically page and dial the home telephone number of all personnel assigned to a position until the position is filled.

- a. **IF** a real event notification is received (not a test, drill, or exercise), **DIAL** the toll-free telephone number and **COMPLY** with the instructions provided.
- b. **IF** a real event notification is received (not a test, drill, or exercise) **AND** acknowledgement can *not* be made via telephone, **REPORT** to assigned emergency response facility.

Level of Use
Information

STOP

THINK

ACT

REVIEW

EPAP 1.15
Rev. 5
14 of 41

NOTE

EPAP Form 1.15-3 provides information on unit event backup codes.

- c. **IF** a unit event code (e.g., ID 101, 201, 301) is received, immediately **REPORT** to assigned emergency response facility.

– End of Section 1.5 –

1.6 Subject to Call Positions

NOTE

1. Subject to call pager positions are assigned to teams for training and drill scheduling purposes.
2. The approximate 10 minute wait to acknowledge pager activations is to allow for initial calls by on-call and on-duty responders to access the system.

1.6.1 IF fit for duty, **ACKNOWLEDGE** all pager activations after waiting approximately 10 minutes.

NOTE

1. Subject to call position holders are expected to staff their position as soon as possible. It is not considered acceptable to wait up to 8 hrs to fill a position.
2. If a position is vacant, the DSEO may elect to fill the position by appointment until a fully qualified individual is available.
3. All Accident Management Team positions shall be staffed within 90 minutes of notification.

1.6.2 IF not fit for duty and contacted by the MOR, **COMPLY** with the instructions provided.

NOTE

For open positions, the caller will be instructed to report. For filled positions, subsequent callers will be directed to remain available.

1.6.3 Using SERO call-in card, **DIAL** the toll-free telephone number and **COMPLY** with the instructions provided.

– End of Section 1.6 –

Level of Use
Information

STOP

THINK

ACT

REVIEW

EPAP 1.15
Rev. 5
16 of 41

1.7 On-Shift Positions

1.7.1 Refer To Attachment 5 and IDENTIFY reporting location.

1.7.2 WHEN notified of an Alert, Site Area Emergency, or General Emergency, REPORT to the designated reporting location.

– End of Section 1.7 –

1.8 Drills and Exercises

NOTE

1. Drills are conducted as a training opportunity in order to enhance and maintain effective emergency response capabilities.
2. Major objectives of the Millstone Station Emergency Plan will be exercised annually. Exercises differ from drills in that the primary result of an exercise is a critical assessment of emergency response capability.
3. In order to fully evaluate SERO performance capability, back-up staffing (e.g., trainees) will normally not be allowed during evaluated drills or exercises.
4. "Hands-On/OJT" Drills will be conducted when it is determined that additional training or experience will enhance an individual, selected group, facility staff or the SERO's ability to respond to emergency conditions. This training evaluation may take the form of a walk-through or a table-top discussion of an evolution or operation. This type of training evaluation is distinct from those described in Section 1.8.1 in that the focus is limited and will generally not include an integrated response.
5. Actual emergency plan activations may be credited in place of selected drills if the Emergency Planning Services Manager deems it appropriate. Generally an Alert or higher level emergency may be substituted for a drill. Such events may also replace an exercise with NRC approval.

Manager
EPSD

1.8.1 Refer To the 6 year EP objectives schedule and CONDUCT the following drills and tests, as appropriate:

- Health Physics Drills
- Radiological Monitoring Drills
- Chemistry Drills
- Medical Emergency Drills
- Communication tests
- Fire Drills
- Emergency Plan Training Drills

Level of Use
Information

STOP

THINK

ACT

REVIEW

EPAP 1.15
Rev. 5
18 of 41

- Exercises
- Off-site public alerting siren tests
- Off-hour Drills
- Assembly and Accountability Drills

1.8.2 REQUEST drill support from other departments, as applicable.

– End of Section 1.8 –

1.9 Emergency Response Facilities and Equipment

NOTE

1. Each ERF has equipment in place to perform functions assigned in the Millstone Station Emergency Plan. Emergency Preparedness Coordinators are authorized to perform unannounced, periodic walk-through inspections of ERFs.
2. Additional facility and equipment responsibilities are detailed in OA-8, "Ownership, Maintenance, and Housekeeping of Site Buildings and Facilities, and Equipment," and Emergency Planning Services Department Instruction EPDI 06, "Emergency Facilities and Equipment."

Station
Personnel

- 1.9.1 Refer To Attachment 2, "Summary of Department Responsibilities for Facilities, Equipment, and Material Maintenance," and ENSURE facilities are maintained, as assigned.
- 1.9.2 PERFORM equipment check or maintenance at required intervals and after each use.
- 1.9.3 Refer To Attachment 3, "Emergency Response Facility Readiness Check Report Form," or other appropriate documentation and PROVIDE documentation of completed activities to the Manager EPSD.
- 1.9.4 Promptly REPORT problems to the Manager EPSD.
- 1.9.5 IF alteration or modification of ERF or equipment is required, NOTIFY the Manager EPSD prior to alteration or modification.

Unit
Chemistry
Technicians
and RAE

- 1.9.6 Refer To Attachment 4, "Documentation of Testing of Dose Assessment Computer Program," and TEST dose assessment computer program.

- End of Section 1.9 -

Level of Use
Information

STOP

THINK

ACT

REVIEW

EPAP 1.15

Rev. 5

20 of 41

1.10 Severe Accident Management

Manager
EPSD

- 1.10.1 Severe accident management documents developed for the Millstone units will be owned by the Emergency Planning Services Department. Technical expertise for the contents of the documents will be provided by the Unit Operations Department and the Safety Analysis Branch.
- 1.10.2 Drills requiring implementation of SAMG will be conducted as part of the scheduled 6-year objectives for each operating unit. The SAMG drill objectives shall test and evaluate the unit severe accident management response capabilities. The drill scenario shall be of sufficient complexity and challenge to require the development of multiple SAM strategies. Drill core objectives will be included in accordance with EPDI-07 "Drill and Exercise Manual."
- 1.10.3 SAMG "Evaluator" training should be provided at least every two years for continuing training purposes. Training for other SAMG personnel should be provided on a 6-year frequency for continuing training purposes.

– End of Section 1.10 –

Level of Use
Information

STOP THINK ACT REVIEW

EPAP 1.15
Rev. 5
21 of 41

2. REFERENCES

2.1 Developmental Documents

- 2.1.1 Millstone Nuclear Power Station Emergency Plan
- 2.1.2 NUREG-0654, Revision 1, "Criteria for Preparation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants"
- 2.1.3 NUREG-0737, "Clarification of TMI Action Plan Requirements, Supplement 1, Requirements for Emergency Response Capability"

2.2 Supporting Documents

- 2.2.1 TQ-1, "Personnel Qualification and Training"
- 2.2.2 NGP 2.04, "Nuclear Incidents Response and Recovery"
- 2.2.3 NTP 7.212, "Training Program Description"
- 2.2.4 RPM 4.8.5, "Emergency Radiological Equipment Maintenance and Inspection."
- 2.2.5 OA 8, "Ownership, Maintenance, and Housekeeping of Site Buildings and Facilities and Equipment"

3. COMMITMENTS

- 3.1 NU Letter B14268 commits NU to have procedures to accommodate the implementation of ERDS.
- 3.2 NU Letter A06789 commits NU to surveille computer hardware (OFIS) quarterly.
- 3.3 NU Letter A02567 commits NU to monitor emergency equipment, including communications.

4. SUMMARY OF CHANGES

- 4.1 Incorporated previously SORC approved change 1 and change 2 to revision 4.
- 4.2 Added information to step 1.4 to clarify the message that will be displayed on pagers to reflect RapidReach software.

Level of Use
Information

STOP

THINK

ACT

REVIEW

EPAP 1.15
Rev. 5
22 of 41

- 4.3 Updated procedure references in step 1.4.4, Section 2, and Attachment 2.
- 4.4 Modified step 1.5.4 and added note prior to step 1.5.4.a to clarify the new RapidReach call—in process.
- 4.5 Deleted previous steps 1.5.4.d and 1.6.3.c to enter PIN number and remain on the telephone line.
- 4.6 Added Off—hour Drills and Assembly and Accountability Drills to step 1.8.1.
- 4.7 Modified Attachment 2 as follows:
- Added commitments to steps 3.2 and 3.3 and source notes
 - Identified Unit 2 I&C as being responsible for meteorological equipment and EDAN maintenance.
 - Changed responsibility for the electrical and mechanical maintenance of the HVAC system from U2 Maintenance to Station Maintenance.
- 4.8 Changed the operability test of the Technical Support Center Initial Dose Assessment computer from weekly to monthly in Attachment 4.
- 4.9 Changed Attachment 5 to indicate that RMT Drivers are not designated for specific teams.
- 4.10 Changed EPAP Form 1.15—3 to reflect new unit event backup codes.

Attachment 1
Emergency Preparedness Abbreviations and Definitions

(Sheet 1 of 1)

1. ADAM – Accident Dose Assessment Model
2. ADEOF – Assistant Director Emergency Operations Facility
3. ADTS – Assistant Director Technical Support
4. AMRDA – Assistant Manager of Radiological Dose Assessment
5. ENRS – Emergency Notification and Response System. The on-site and off-site notification system including pager and phone communications.
6. EPSD – Emergency Planning Services Department
7. ERC – External Resources Coordinator
8. ERDS – Emergency Response Data System
9. IDA – Initial Dose Assessment
10. RAE – Radiological Assessment Engineer
11. RDAC – Radiological Dose Assessment Committee
12. RES – Radiological Engineering Section
13. SAMG – Severe Accident Management Guidelines
14. SNS – SERO Notification System
15. Millstone Station Emergency Plan: The Millstone Station Emergency Plan contains requirements and organizational responsibilities and serves as the license commitment document for emergency preparedness.
16. Emergency Plan Administrative Procedure (EPAP)/Implementing Procedure (EPIP)/Operating Procedure (EPOP): Procedures that implement the Station Emergency Plan.
17. Emergency Preparedness User's Guide (EPUG): A document providing general guidance on how to operate or maintain specific emergency preparedness facilities and equipment such as OFIS, ENRS, ADAM, and radio communication equipment. EPUGs are not subject to SORC approval or controlled distribution; they are kept with the equipment they describe. The Emergency Planning Services Department is responsible for maintaining EPUGs.
18. SERO on-call independent rotation: On-call personnel not assigned to a SERO Team, i.e., Mechanics, Electricians, I&C Technicians, Radiological Monitoring Teams, Health Physics Technicians, and Generation Test Services personnel. Department supervision will maintain an on-call rotation schedule for these personnel.

Level of Use
Information

STOP

THINK

ACT

REVIEW

EPAP 1.15
Rev. 5
24 of 41

Attachment 2
Summary of Department Responsibilities for Facilities, Equipment, and
Material Maintenance
(Sheet 1 of 4)

Organization	Item	Task	Freq ₁	Reference
CL&P Eastern Regional Test Group, Willimantic	Public Alerting System	Inspect and Conduct Testing	Q, A	Eastern Regional Test Group, Procedure 00I 003 EPDI 05
Chemistry	EOF Multi Channel Analyzer	Inspect and Conduct Testing	AN	RPM; ANSI
Computer Services	ERF Computer Hardware, Software, and Connections	Maintenance, Surveillance, and Control	AN	Help Desk DC 11 EPDI 06
Corporate Telecommunication Services (B3333)	SNS, NU Pagers, Radios, ENRS	General Support and Testing	AN	
Emergency Planning Services	FSAR, Tech Specs, Aperture Cards	Maintain Control Copies in ERFs	AN	GRITS
Emergency Planning Services	Unit – Specific Procedures	Maintain Control copies in EOF	AN	OSCAR
Emergency Planning Services	EOF and TSC Aperture Card Readers	Update and Check	Q	NDM 04
Emergency Planning Services	SERO Notification System	Test and Maintain	M	EPDI 06 C-OP 606
Emergency Planning Services	ERF Phone and Fax Equipment	Perform Operability Check	M,Q	EPDI 06
Emergency Planning Services	ERF Radios	Perform Operability Check	Q	EPDI 06
Emergency Planning Services	ERF Support Equipment, Furniture, and Supplies [• Comm. 3.3]	Maintain and Conduct Inventories	Q, AEU	EPDI 06
Emergency Planning Services	ERF Communications	Surveillance	M	EPDI 06
Emergency Planning Services	OFIS	Perform Operability Test	M	EPDI 06

Level of Use Information

STOP

THINK

ACT

REVIEW

EPAP 1.15
Rev. 5
25 of 41

Attachment 2
Summary of Department Responsibilities for Facilities, Equipment, and
Material Maintenance

(Sheet 2 of 4)

Organization	Item	Task	Freq ¹	Reference
Health Physics Support	Emergency Response HP Supplies and Equipment	Maintenance, Surveillance, and Calibration	Q, AEU	RPM 4.8.5
Health Physics Support (Respiratory Protection)	Respiratory Protection Equipment	Maintenance	Q	RPM 2.3.5
Motor Pool	RMT Vehicles	Mechanical and Operational Inspection and Maintenance	Q	
RAE, Chemistry Technicians	ERF Dose Assessment Computers	Check Operability	W,M	EPAP 1.15, Att. 4 EPUG 07 EPOP 4432
Nuclear Document Services	Unit – Specific Procedures	Maintain Control Copies in TSC	AN	OSCAR
Nuclear Document Services	Emergency Preparedness EIPs/EPOPs	Maintain Document Distribution and Control; Audit	AN	OSCAR
Unit 2 I&C	Meteorological Equipment	Inspect, Calibrate, and Confirm Operability	W	C-SP-400.2
Security	Station Page and Evacuation Siren	Monitor Outside Speakers when Units Conduct Test.	M/Q	C-OP 605
Security	CR/Security Hot Links	Phone Checks	D	Security Procedure
Site Facilities	Emergency Response Facilities	Building Services (Janitorial, Plumbing, Lighting)	AN	
Emergency Planning Services	Millstone EPlan Resource Book	Update	Q	EPUG 08B

Level of Use
Information

STOP

THINK

ACT

REVIEW

EPAP 1.15
Rev. 5
26 of 41

Attachment 2
Summary of Department Responsibilities for Facilities, Equipment, and
Material Maintenance
(Sheet 3 of 4)

Organization	Item	Task	Freq ¹	Reference
I&C; SAB	Radiation Monitors	Maintenance and Calibration; Documentation		
U-1 Operations	Meteorological Tower Generator	Test ²	M	SP 699
U-1 Operations	U-1 PA Speakers and Evacuation Alarm	Test	M/Q	C-OP 605
Station Maintenance	Emergency Operations Facility	Electrical and Mechanical Maintenance of HVAC	Q	Vendor Support
U-2 Operations	EOF Airlock	Test ²	Q	SP 2678C
U-2 Operations	EOF Emergency Diesel Generator	Test ² Operation	M	SP 2678B OP 2399A
U-2 Operations	EOF Fire Detection System	Test ² Operation	Q	SP 2678D OP 2399B
U-2 Operations	EOF Vent (RAD) Filter Systems	Test ²	R	SP 2678A
U-2 Operations	U-2 PA Speakers and Evacuation Alarms	Test	M/Q	C-OP 605
Station Maintenance	Technical Support Center (TSC)	Electrical and Mechanical Maintenance of HVAC	Q	AWO on 3TS-3900J
Station Maintenance	Technical Support Center (TSC)	Emergency Lights	Q	MP 3780AE
U-3 Operations	TSC Emergency Power (TSC)	Test ²	Q	SP 3666.2
U-3 Operations	TSC Vent (RAD) Filter System	Test ²	R	SP 3666.1
U-3 Operations	U-3 PA Speakers and Evacuation Alarms	Test	M/Q	C-OP 605

Level of Use
Information

STOP THINK ACT REVIEW

EPAP 1.15
Rev. 5
27 of 41

Attachment 2
Summary of Department Responsibilities for Facilities, Equipment, and
Material Maintenance

(Sheet 4 of 4)

Organization	Item	Task	Freq ¹	Reference
Unit Engineering (U-1, 2, 3)	Drawings	Maintain Control Copies in ERFs.	AN	Master Control Index
Unit Operations (U-1, 2, 3)	Radio Communications (Waterford, State, Tri-Town)	Test ²	D	C-OP 600.3
Unit Operations (U-1, 2, 3)	Unit Page Siren System and Evacuation Alarm	Test ²	M	C-OP 605
Unit Operations (U-3)	Radiopaging ENRS Daily/Weekly Test	Test ²	D, W	C-OP 608
Unit Operations (U-3)	Radiopaging ENRS/SNS Monthly Test	Test ²	M	C-OP 606
Unit Chemistry (U-1,2,3)	PASS	System Surveillance		CP--(800, 2800, 3800)
Wethersfield Data Center	ERDS, OFIS [*Comm 3.1, 3.2]	General Support and Testing	Q	EPDI 06 EPDP 10

NOTE

1. D = Daily, W = Weekly, M = Monthly, Q = Quarterly, R = Refuel Outage, A = Annual (not to exceed 25% of surveillance period) AN = As Necessary, AEU = After Each Use. All are also as required by drills, audits, revisions, etc.
2. Maintenance, repair, and test follow up is passed to applicable Unit Maintenance Departments.

**Level of Use
Information**



EPAP 1.15
Rev. 5
28 of 41

Attachment 4

Documentation of Testing of Dose Assessment Computer Program

(Sheet 1 of 1)

NOTE

ADAM is installed in the EOF and IDA is installed in the control rooms. ADAM, IDA, and other approved dose assessment models such as RASCAL may also be installed on computers in the EOF, TSC, or other ERFs.

Radiological Assessment Engineer (RAE)

1. Monthly, VERIFY operability of the Emergency Operations Facility dose assessment computer program and printer and ENSURE results match test case.
2. COMPLETE surveillance log.
3. IF test results are *not* satisfactory, NOTIFY EPSD.

Unit Chemistry Technicians

Unit 3

1. Monthly, VERIFY operability of the Technical Support Center Initial Dose Assessment computer and ENSURE results match test case.

All Units

2. Weekly, VERIFY operability of control room initial dose assessment computer program and printer and ENSURE results match test case.
3. COMPLETE surveillance log.
4. IF test results are *not* satisfactory, NOTIFY EPSD.

Level of Use
Information

STOP

THINK

ACT

REVIEW

EPAP 1.15

Rev. 5

30 of 41

Attachment 5
SERO Qualifications and Reporting Location (3)
(Sheet 1 of 8)

Position	Code	CAT	LOC	RESP	RAD	Position Owner	Drill Requirements	
							Annual Requal Yes/No	Initial (4) Drill/OJT/Walk-Thru
Assistant Director Emergency Operations Facility	ADEOF	OC	EOF	No	No	Manager – Emergency Planning Services	Yes	Drill
Assistant Manager of Radiological Dose Assessment	AMRDA	STC	EOF	No	No	Director – Site Services	Yes	Drill
Accident Management Team Thermal and Hydraulic Engineer	AMT/TH	STC	TSC/OSC	No	Yes	Director – Nuclear Engineering	Yes	OJT
Accident Management Team Lead	AMTL	STC	TSC/OSC	No	Yes	Director – Nuclear Engineering	Yes	OJT
Accident Management Team Mechanical Engineer	AMTME	STC	TSC/OSC	No	Yes	Director – Plant Engineering	Yes	OJT
Assistant Radiation Protection Supervisor	ARPS	OC	TSC/OSC	No	Yes	Director – Site Services	Yes	OJT
Director of Station Emergency Operations	DSEO	OC	EOF	No	No	Chief Nuclear Officer	Yes	Drill
EOF Health Physics Technician	EOFHP	OC	EOF	Yes	Yes	Director – Site Services	Yes	Drill
EOF Shift Technician	EOFST	OC	EOF	Yes	Yes	Director – Station	No	Walk-Thru
External Resource Coordinator	ERC	STC	EOF	No	No	Director – Nuclear Materials and Document Management	Yes	Walk-Thru (5)
Executive Spokesperson	ES	OC	Media Cntr	No	No	Chief Nuclear Officer	Yes	Walk-Thru
Fire Brigade/EMT	FB	OS	OSC AA	Yes	Yes	Director – Site Services	No	Drill (6)
Field Team Data Coordinator	FTDC	STC	EOF	No	No	Director – Site Services	Yes	Walk-Thru
Generations Test Services Specialist	GTS	OC	TSC/OSC	No	Yes	Director – Site Services	No	Walk-Thru

Level of Use Information

STOP THINK ACT REVIEW

EPAP 1.15
Rev. 5
31 of 41

Attachment 5
SERO Qualifications and Reporting Location (3)
(Sheet 2 of 8)

Position	Code	CAT	LOC	RESP	RAD	Position Owner	Drill Requirements	
							Annual Requal-Yes/No	Initial (4) Drill/OJT/Walk-Thru
Meteorological Specialist	MET	STC	EOF	No	No	Director – Site Services	Yes	Walk-Thru
Manager of Resources	MOR	OC	EOF	No	No	Director – Nuclear Materials and Document Management	Yes	Drill
Manager of Security	MOS	STC	EOF	No	Yes	Director – Site Services	Yes	Drill
Manager Public Information	MPI	OC	EOF	No	No	Director – Nuclear Communications	Yes	Drill
Manager Radiological Consequence Assessment	MRCA	OC	EOF	No	No	Director – Site Services	Yes	Drill
Nuclear News Manager	NNM	OC	Media Cntr	No	No	Director – Nuclear Communications	Yes	Drill
Prem Operator	PREM	STC	EOF	No	No	Director Site Services	Yes	Walk-Thru
Radiological Communicator	RADCOM	STC	EOF	No	No	Director – Site Services	Yes	Walk-Thru
Radiological Assessment Engineer	RAE	STC	EOF	No	No	Director – Nuclear Engineering	Yes	Drill
Radiological Monitoring Team 3 Lead	RMT3	OC	EOF	Yes	Yes	Director – Station	Yes	Walk-Thru
Radiological Monitoring Team Driver*	RMTDRV	OC	EOF	Yes	Yes	Director – Nuclear Oversight	Yes	Walk-Thru
Radiological Monitoring Team 4 Lead	RMT4	OC	EOF	Yes	Yes	Director – Station	Yes	Walk-Thru
Radiological Monitoring Team Driver*	RMTDRV	OC	EOF	Yes	Yes	Director – Nuclear Oversight	Yes	Walk-Thru
Radiological Monitoring Team 5 Lead	RMT5	OC	EOF	Yes	Yes	Director – Station	Yes	Walk-Thru

* All RMT Drivers are in one group with three people on call at all times.

Level of Use
Information

STOP THINK ACT REVIEW

EPAP 1.15
Rev. 5
32 of 41

Attachment 5
SERO Qualifications and Reporting Location (3)
(Sheet 3 of 8)

Position	Code	CAT	LOC	RESP	RAD	Position Owner	Drill Requirements	
							Annual Requal-Yes/No	Initial (4) Drill/OJT/Walk-Thru
Radiological Monitoring Team Driver*	RMTDRV	OC	EOF	Yes	Yes	Director – Nuclear Oversight	Yes	Walk-Thru
NAP Radiological Monitoring Team	RMTA	OC	NAP	Yes	Yes	Director – Station	Yes	Walk-Thru
NAP Radiological Monitoring Team	RMTB	OC	NAP	Yes	Yes	Director – Station	Yes	Walk-Thru
SAP Radiological Monitoring Team	RMTC	OC	SAP	Yes	Yes	Director – Station	Yes	Walk-Thru
SAP Radiological Monitoring Team	RMTD	OC	SAP	Yes	Yes	Director – Site Services	Yes	Walk-Thru
Station Duty Officer	SDO	OS	CR	Yes	Yes	Director – Station	No	OJT
Technical Support Center Reactor Engineer	TSCRE	OC	TSC/OSC	No	Yes	Director – Plant Engineering	Yes	Walk-Thru
Technical Assistant	TA	STC	Media Center	No	No	Manager – Regulatory Affairs	Yes	Walk-Thru
Unit 1 Assistant Director Technical Support	U1ADTS	OC	TSC/OSC	No	Yes	Director – Station	Yes	Drill
Unit 1 Chemistry Technician	U1CHEM-TECH	OS	CR	Yes	Yes	Director – Station	No	Walk-Thru
Unit 1 Control Room Data Coordinator	U1CRDC	STC	CR	No	Yes	Director – Nuclear Training	Yes	Walk-Thru
Unit 1 Electrician	U1ELEC	OC	OSC AA	Yes	Yes	Director – Maintenance	No	Walk-Thru
Unit 1 Health Physics Technician	U1HPTECH	OS	CR	Yes	Yes	Director – Station	No	Walk-Thru

* All RMT Drivers are in one group with three people on call at all times.

Level of Use
Information

STOP THINK ACT REVIEW

EPAP 1.15
Rev. 5
33 of 41

Attachment 5
SERO Qualifications and Reporting Location (3)
(Sheet 4 of 8)

Position	Code	CAT	LOC	RESP	RAD	Position Owner	Drill Requirements	
							Annual Requal-Yes/No	Initial (4) Drill/OJT/Walk-Thru
Unit 1 Instrument & Control Operational Support Center	U1I&C OSC	STC	TSC/OSC	No	Yes	Director – Maintenance	Yes	Drill
Unit 1 Instrument & Control Technician	U1I&C TECH	OC	OSC AA	Yes	Yes	Director – Maintenance	No	Walk-Thru
Unit 1 Mechanic	U1MECH	OC	OSC AA	Yes	Yes	Director – Maintenance	No	Walk-Thru
Unit 1 Manager of Communications	U1MOC	OC	EOF	No	No	Director – Nuclear Training	Yes	Walk-Thru
Unit 1 Manager of Operational Support Center	U1MOSC	OC	TSC/OSC	No	Yes	Director – Maintenance	Yes	Drill
Unit 1 Manager of Technical Support Center	U1MTSO	OC	TSC/OSC	No	Yes	Director – Plant Engineering	Yes	Drill
Unit 1 Operational Support Center Maintenance Assistant	U1 OSCMA	STC	TSC/OSC	No	Yes	Director – Maintenance	Yes	Drill
Unit 1 PEO/NCO	U1PEO/ NCO	OS	CR	Yes	Yes	Director – Station	(1)	(1)
Unit 1 Control Operator	U1CO	OS	CR	Yes	Yes	Director – Station	(1)	(1)
Unit 1 STA	U1STA	OS	CR	Yes	Yes	Director – Station	(1)	(1)
Unit 1 Technical Information Coordinator	U1TIC	STC	EOF	No	No	Director – Nuclear Training	Yes	Walk-Thru
Unit 1 Technical Support Center Electrical Engineer	U1 TSCEE	OC	TSC/OSC	No	Yes	Director – Plant Engineering	Yes	OJT
Unit 1 Technical Support Center Mechanical Engineer	U1 TSCME	OC	TSC/OSC	No	Yes	Director – Plant Engineering	Yes	OJT
Unit 1 Technical Support Center Shift Manager	U1 TSCSM	STC	TSC/OSC	No	Yes	Director – Plant Engineering	No	OJT

Level of Use
Information

STOP THINK ACT REVIEW

EPAP 1.15
Rev. 5
34 of 41

Attachment 5
SERO Qualifications and Reporting Location (3)
(Sheet 5 of 8)

Position	Code	CAT	LOC	RESP	RAD	Position Owner	Drill Requirements	
							Annual Requal-Yes/No	Initial (4) Drill/OJT/Walk-Thru
Unit 2 Assistant Director Technical Support	U2ADTS	OC	TSC/OSC	No	Yes	Director – Station	Yes	Drill
Unit 2 Chemistry Technician	U2CHEM-TECH	OS	CR	Yes	Yes	Director – Station	No	Walk-Thru
Unit 2 Control Room Data Coordinator	U2CRDC	STC	CR	No	Yes	Director – Nuclear Training	Yes	Walk-Thru
Unit 2 Electrician	U2ELEC	OC	OSC AA	Yes	Yes	Director – Maintenance	No	Walk-Thru
Unit 2 Health Physics Technician	U2HP TECH	OS	CR	Yes	Yes	Director – Station	No	Walk-Thru
Unit 2 Instrument & Control Operational Support Center	U2I&C OSC	STC	TSC/OSC	No	Yes	Director – Maintenance	Yes	Drill
Unit 2 Instrument & Control Technician	U2I&C TECH	OC	OSC AA	Yes	Yes	Director – Maintenance	No	Walk-Thru
Unit 2 Mechanic	U2MECH	OC	OSC AA	Yes	Yes	Director – Maintenance	No	Walk-Thru
Unit 2 Manager of Communications	U2MOC	OC	EOF	No	No	Director – Nuclear Training	Yes	Walk-Thru
Unit 2 Manager of Operational Support Center	U2MOSC	OC	TSC/OSC	No	Yes	Director – Maintenance	Yes	Drill
Unit 2 Manager of Technical Support Center	U2MTSC	OC	TSC/OSC	No	Yes	Director – Plant Engineering	Yes	Drill
Unit 2 Operational Support Center Maintenance Assistant	U2 OSCMA	STC	TSC/OSC	No	Yes	Director – Maintenance	Yes	Drill
Unit 2 PEO	U2PEO	OS	CR	Yes	Yes	Director – Station	(1)	(1)
Unit 2 Control Operator	U2CO	OS	CR	Yes	Yes	Director – Station	(1)	(1)

**Level of Use
Information**

STOP THINK ACT REVIEW

EPAP 1.15
Rev. 5
35 of 41

Attachment 5
SERO Qualifications and Reporting Location (3)
(Sheet 6 of 8)

Position	Code	CAT	LOC	RESP	RAD	Position Owner	Drill Requirements	
							Annual Requal-Yes/No	Initial (4) Drill/OJT/Walk-Thru
Unit 2 STA	U2STA	OS	CR	Yes	Yes	Director – Station	(1)	(1)
Unit 2 Technical Information Coordinator	U2TIC	STC	EOF	No	No	Director – Nuclear Training	Yes	Walk-Thru
Unit 2 Technical Support Center Electrical Engineer	U2 TSCEE	OC	TSC/OSC	No	Yes	Director – Plant Engineering	Yes	OJT
Unit 2 Technical Support Center Mechanical Engineer	U2 TSCME	OC	TSC/OSC	No	Yes	Director – Plant Engineering	Yes	OJT
Unit 2 Technical Support Center Shift Manager	U2 TSCSM	STC	TSC/OSC	No	Yes	Director – Station	No	OJT
Unit 3 Assistant Director Technical Support	U3ADTS	OC	TSC/OSC	No	Yes	Director – Station	Yes	Drill
Unit 3 Chemistry Technician	U3CHEM-TECH	OS	CR	Yes	Yes	Director – Station	No	Walk-Thru
Unit 3 Control Room Data Coordinator	U3CRDC	STC	CR	No	Yes	Director – Nuclear Training	Yes	Walk-Thru
Unit 3 Electrician	U3ELEC	OC	OSC AA	Yes	Yes	Director – Maintenance	No	Walk-Thru
Unit 3 Health Physics Technician	U3 HPTECH	OS	CR	Yes	Yes	Director – Station	No	Walk-Thru
Unit 3 Instrument & Control Operational Support Center	U3I&C OSC	STC	TSC/OSC	No	Yes	Director – Maintenance	Yes	Drill
Unit 3 Instrument & Control Technician	U3I&C TECH	OC	OSC AA	Yes	Yes	Director – Maintenance	No	Walk-Thru
Unit 3 Mechanic	U3MECH	OC	OSC AA	Yes	Yes	Director – Maintenance	No	Walk-Thru

Level of Use
Information

STOP THINK ACT REVIEW

EPAP 1.15
Rev. 5
36 of 41

Attachment 5
SERO Qualifications and Reporting Location (3)
(Sheet 7 of 8)

Position	Code	CAT	LOC	RESP	RAD	Position Owner	Drill Requirements	
							Annual Requal-Yes/No	Initial (4) Drill/OJT/Walk-Thru
Unit 3 Manager of Communications	U3MOC	OC	EOF	No	No	Director – Nuclear Training	Yes	Walk-Thru
Unit 3 Manager of Operational Support Center	U3MOSC	OC	TSC/OSC	No	Yes	Director – Maintenance	Yes	Drill
Unit 3 Manager of Technical Support Center	U3MTSC	OC	TSC/OSC	No	Yes	Director – Plant Engineering	Yes	Drill
Unit 3 Operational Support Center Maintenance Assistant	U3 OSCMA	STC	TSC/OSC	No	Yes	Director – Maintenance	Yes	Drill
Unit 3 PEO	U3PEO	OS	CR	Yes	Yes	Director – Station	(1)	(1)
Unit 3 Control Operator	U3CO	OS	CR	Yes	Yes	Director – Station	(1)	(1)
Unit 3 STA	U3STA	OS	CR	Yes	Yes	Director – Station	(1)	(1)
Unit 3 Technical Information Coordinator	U3TIC	STC	EOF	No	No	Director – Nuclear Training	Yes	Walk-Thru
Unit 3 Technical Support Center Electrical Engineer	U3 TSCEE	OC	TSC/OSC	No	Yes	Director – Plant Engineering	Yes	OJT
Unit 3 Technical Support Center Mechanical Engineer	U3 TSCME	OC	TSC/OSC	No	Yes	Director – Plant Engineering	Yes	OJT
Unit 3 Technical Support Center Shift Manager	U3 TSCSM	STC	TSC/OSC	No	Yes	Director – Station	No	OJT
Unit 1 Unit Supervisor	U1US	OS	CR	Yes	Yes	Director – Station	(1)	(1)
Unit 2 Unit Supervisor	U2US	OS	CR	Yes	Yes	Director – Station	(1)	(1)
Unit 3 Unit Supervisor	U3US	OS	CR	Yes	Yes	Director – Station	(1)	(1)
Security Guard	SECGRD	OS	POST	Yes	Yes	Director – Site Services	No	OJT
Security Shift Supervisor	SSS	OS	CAS	No	Yes	Director – Site Services	No	OJT

Level of Use
Information

STOP THINK ACT REVIEW

EPAP 1.15
Rev. 5
37 of 41

Attachment 5
SERO Qualifications and Reporting Location (3)
(Sheet 8 of 8)

Position	Code	CAT	LOC	RESP	RAD	Position Owner	Drill Requirements	
							Annual Requal- Yes/No	Initial (4) Drill/OJT/ Walk-Thru
Manager Radiological Dose Assessment	MRDA	OC	EOF	No	No	Director – Station Services	Yes	Drill
Unit 3 Shift Technician	U3ST	OS	CR	Yes	Yes	Director – Station	No	NA
Unit 1 Shift Manager	U1SM	OS	CR	Yes	Yes	Director – Station	(1)	(1)
Unit 2 Shift Manager	U2SM	OS	CR	Yes	Yes	Director – Station	(1)	(1)
Unit 3 Shift Manager	U3SM	OS	CR	Yes	Yes	Director – Station	(1)	(1)
Alarm Station Supervisor	SECSUP	OS	CAS/SAS	Yes	Yes	Director – Site Services	No	OJT

Notes:

- (1) Credit will be taken for drill completion when performed as part of Licensed Operator Initial Training (LOIT), Licensed Operator Requalification Training (LORT), Shift Technical Advisor (STA) Program, and Plant Equipment Operator (PEO) Training.
- (2) Deleted
- (3) Additional qualification requirements are contained in NTP 7.212.
- (4) Participation in a drill may satisfy the walk-thru qualifications for initial training.
- (5) Walk-thrus include use of any equipment, identification and location of reference materials, and a knowledge of the facility layout. Training, Emergency Planning, or job incumbents qualify for conducting walk-thrus.
- (6) Tracked by Fire Training Department.

**Level of Use
Information**

STOP THINK ACT REVIEW

EPAP 1.15
Rev. 5
38 of 41

Attachment 6
Roles and Responsibilities for
Emergency Preparedness Dose Assessment
(Sheet 1 of 2)

Area	EPSD	SAB/RES
Emergency Plan (Includes Ingestion Pathway Plan)	EPSD shall: <ul style="list-style-type: none"> • Develop the Emergency Plan • Ensure compliance to regulatory requirements • Request technical support for input and review • Process changes and obtain necessary approvals • Perform necessary 50.54(q) reviews 	SAB/RES shall: <ul style="list-style-type: none"> • Provide radiological technical expertise requested • Provide compliant support • Support the review and approval process
Radiological Dose Assessment Committee (RDAC)	EPSD shall: <ul style="list-style-type: none"> • Chair the committee • Develop a charter • Schedule meetings • Develop meeting minutes for RDAC members and upper management • Provide expertise specific to regulatory compliance • Provide input and make contacts to benchmark against the industry • Process change requests 	SAB/RES shall: <ul style="list-style-type: none"> • Co-chair the committee • Provide input to charter • Provide technical member(s) to the RDAC • Develop technical justification for software / procedure changes • Provide radiological expertise specific to subject matter
Procedures	EPSD shall: <ul style="list-style-type: none"> • Chair CRC • Maintain overall approval or veto of proposed procedures and changes • Ensure compliance to regulatory requirements • Maintain procedures current / schedule biennial reviews if required • Process procedure change requests • Process procedure typing requests • Facilitate writers guide review by Procedures Group • Perform necessary 50.54(q) reviews • Provide V&V support as necessary • Facilitate scheduling of PORC/SORC by Procedures Group • Set effective implementation dates 	EPSD shall: <ul style="list-style-type: none"> • Provide radiological technical intent • Write procedure steps • Provide bases documents • Lead V&V process • Provide V&V input and approvals • Support necessary 50.54(q) review • Present technical changes to PORC/SORC for approval

Level of Use Information



Attachment 6
Roles and Responsibilities for
Emergency Preparedness Dose Assessment
(Sheet 2 of 2)

Area	EPSD	SAB/RES
Tools and Software	<p>EPSD shall:</p> <ul style="list-style-type: none"> • Own required tools and software • Be responsible for budgeting new purchases • Fund upgrades and revisions • Ensure compliance to regulatory requirements and intent • Obtain approvals for selected tools and software through RDAC (user) members before committing to a solution/purchase/change • Own Quality Software (QS) and associated documentation 	<p>SAB/RES shall:</p> <ul style="list-style-type: none"> • Produce requirements document specifying needs, acceptance criteria and process bids • Recommend through the RDAC the selection of tools and software • Develop internal software (as necessary or as appropriate) • Provide development support • Provide testing • Provide QS documentation • Provide overall radiological technical support
Scenario Development	<p>EPSD shall:</p> <ul style="list-style-type: none"> • Define scenario radiological package requirements (Memo of Understanding) • Develop overall scenario • Provide long-range schedule to allow support resource planning • Define deliverable date for completed package • Provide sufficient lead time as defined in the Memo of Understanding for radiological package development 	<p>SAB/RES shall:</p> <ul style="list-style-type: none"> • Provide an experienced technical lead to develop radiological data packages • Provide support to scenario development meetings • Produce radiological data packages fully meeting Memo of Understanding expectations • Provide completed radiological data package by the defined deliverable date

Level of Use Information

STOP

THINK

ACT

REVIEW

EPAP 1.15

Rev. 5

40 of 41

Attachment 7

Radiological Dose Assessment Committee at Northeast Utilities

(Sheet 1 of 1)

1. Purpose:

Ensure a regulatory compliant, effective dose assessment capability is maintained at NU's Connecticut facilities.

2. Membership:

The following functions shall be represented as members of this committee:

- Emergency Preparedness – (Emergency Planning Services) – Chairperson
- Radiological Engineering – (Rad. Engineering Services) – Co-chairperson
- Station Health Physics
- Training – (EP Training, Chem/HP training, as available)
- Computer Support – (Information Technology, as available)
- Station Chemistry (as available)
- State Department Environmental Protection (as available)
- Environmental Services (as available)

3. Responsibilities:

This committee is responsible to provide the technical, regulatory based review and recommendations for all changes to calculations methodologies, procedures, software or other tools as applicable to performing the function of off-site dose assessment during emergency situations.

4. Meetings:

This committee shall meet on a no less frequent basis than once per calendar quarter in order to review functional status. Meeting notes shall be published and maintained on file in the Emergency Planning Services Department.

5. Authority:

This committee will forward recommended assignments to the Manager of Emergency Planning Services to assign work to the appropriate organization in order to maintain the full capability of emergency dose assessment. The assigned members shall be sufficiently conversant in the issues to have acceptance authority for their respective organizations.

6. Disposition of Issues:

Issues identified shall be dispositioned through the use of the AITTS assignments. Where disagreement of assignment exist, this issue shall be raised to EP and SAB/RES management for disposition.

Level of Use
Information

STOP

THINK

ACT

REVIEW

EPAP 1.15

Rev. 5

41 of 41

9-10-99
Approval Date

12/16/99
Effective Date

Unit Event Backup Codes

NOTE

If a Unit Event Backup Code notification (e.g., ID 101, 201, 301) is received, ENRS has failed.

Personnel on-call, or subject to call must immediately report to their emergency response facility for an ALERT or higher classification. Table 1 indicates the event and unit involved for each designated code. For an UNUSUAL EVENT, no call-in is required, however, personnel should stand-by for further information.

Table 1 Unit Event Backup Codes

Event	Unit 1	Unit 2	Unit 3
Unusual Event	101	201	301
Alert	102	202	302
SAE	103	203	303
General Emergency	104	204	304
Drill - Come In	777	777	777
Drill - Call In	888	888	888

For pager activations, perform the following steps: Dial the pager call-in telephone 1-888-665-4376. If onsite dial Ext. 4376. Follow instructions. Enter individual identification (PIN) code. If position is open, you will receive additional information. If position is not open, remain available to respond. Do not hang up until the system has disconnected.

Docket Nos. 50-245
50-336
50-423
B17947

Attachment 8

Millstone Nuclear Power Station, Unit Nos. 1, 2, and 3

Common Operating Procedure 608, Revision 2
Communications - Radiopaging and ENRS Daily and Weekly Operability Tests

December 1999

**MILLSTONE NUCLEAR POWER STATION
COMMON OPERATING PROCEDURE**



**Communications – Radiopaging and ENRS
Daily and Weekly Operability Tests**

**C-OP 608
Rev. 2**

STOP

THINK

ACT

REVIEW

Approval Date: 9-10-99

Effective Date: 12-16-99

**Level of Use
General**

**Millstone All Units
Common Operating Procedure**

**Communications – Radiopaging and ENRS Daily and Weekly Operability
Tests**

TABLE OF CONTENTS

1.	PURPOSE	2
2.	PREREQUISITES	4
3.	PRECAUTIONS	5
4.	INSTRUCTIONS	6
4.1	Initial Conditions	6
4.2	ENRS Daily Radiopager Operability Test – Shift Technician Pager Only	7
4.3	ENRS Weekly Operability Test – State and Local Officials	9
4.4	Acceptance Criteria and Reporting	14
5.	REVIEW AND SIGNOFF	16
6.	REFERENCES	16
7.	SUMMARY OF CHANGES	16
ATTACHMENTS AND FORMS		
	Attachment 1, “ENRS Daily Radiopager Operability Test”	18
	Attachment 2, “ENRS Weekly Operability Test”	20
	Attachment 3, “Drill Announcement Message for IRF Template”	22

Level of Use
General

STOP THINK ACT REVIEW

C-OP 608

Rev. 2

1 of 22

1. PURPOSE

1.1 Objective

This procedure provides instructions for performing the following tests and determining operability of the Emergency Notification and Response System (ENRS) and radiopager systems:

- Daily test of the Millstone ENRS radiopaging system.
- Weekly test of the Millstone ENRS.

Performance of this procedure ensures these ENRS components are OPERABLE and can satisfy the requirements of 10CFR50 Appendix E.

1.2 Discussion

ENRS components are tested to ensure operational readiness to notify State and Local officials within the EPZ as well as SERO personnel in the event of an actual emergency.

Attachment 3, "Drill Announcement Message for IRF Template," is the Incident Report Form (IRF) to be used for the weekly operability test.

1.3 Applicability

This procedure is applicable in all modes.

Level of Use
General

STOP

THINK

ACT

REVIEW

C-OP 608

Rev. 2

2 of 22

1.4 Frequency

- 1.4.1 The ENRS daily radiopager test schedule is as follows (activates Shift Technician's radiopager only):

Day	Unit	Time
Monday	3	between 0800 and 1600
Tuesday	2	between 0800 and 1600
Wednesday	3	between 0800 and 1600
Thursday	2	between 0800 and 1600
Friday	3	between 0800 and 1600
Saturday	2	between 0800 and 1600

- 1.4.2 The ENRS weekly test is performed on Wednesday at approximately 1000. (The monthly operability test satisfies the requirement for the first weekly test each month). The test schedule is as follows:

1st and 3rd Wednesday of the month – Unit 3

2nd and 4th Wednesday of the month – Unit 2

- 1.4.3 The drill conducted on the 4th Wednesday of the month should be performed from the RapidReach Secondary system.

The weekly test activates the State and Local officials' pagers and the Shift Technician's pager.

Weekly activation of SERO radiopagers and turnover of SERO duties is performed by Security.

2. PREREQUISITES

2.1 General

2.1.1 Unit 3 SM or US has authorized testing for the entire month by signing and dating page 1 of the applicable attachment:

- Attachment 1, "ENRS Daily Radiopager Operability Test"
- Attachment 2, "ENRS Weekly Operability Test"

2.1.2 Shift Technician has ensured no event is in progress which would require prompt release message.

2.1.3 Personnel performing this procedure are familiar with equipment operation.

2.1.4 ENRS phone server is on-line.

2.1.5 ENRS monitor brightness is adjusted appropriately.

2.2 Documents

2.2.1 EPUG-08B, "Millstone Emergency Plan Resource Book"

2.2.2 RP 4, "Corrective Action"

2.2.3 WC 1, "Work Control"

2.3 Definitions

2.3.1 DOUBLE CLICK – To click twice

2.3.2 MAXIMIZE – To restore

2.3.3 MINIMIZE – To shrink

Level of Use
General

STOP

THINK

ACT

REVIEW

C-OP 608

Rev. 2

4 of 22

3. PRECAUTIONS

- 3.1 Failure to select the correct scenario may result in unwarranted activation or the release of misinformation. |

Level of Use
General

STOP

THINK

ACT

REVIEW

C-OP 608

Rev. 2

5 of 22

4. INSTRUCTIONS

4.1 Initial Conditions

- 4.1.1 Refer To step 2.1 and VERIFY prerequisites are satisfied.
- 4.1.2 Refer To step 3.1 and VERIFY precautions are reviewed.
- 4.1.3 INITIAL "Prerequisites Completed" and "Precautions Noted" on Attachment 1, "ENRS Daily Radiopager Operability Test."
- 4.1.4 IF *not* already done, ENTER Month and Year on applicable attachment.

Level of Use
General

STOP

THINK

ACT

REVIEW

C-OP 608

Rev. 2

6 of 22

NOTE

1. Sections 4.2 and 4.3 may be performed in any order.
2. Attachments are maintained in Unit 3 Shift Technician's work station.

4.2 ENRS Daily Radiopager Operability Test – Shift Technician Pager Only

NOTE

1. ENRS is tested daily between 0800 and 1600 hours.
2. The test will activate the NU radiopager of the on-shift Shift Technician only.
3. An ENRS daily test is *not* required on the first Wednesday of each month.
4. The weekly operability test conducted on Wednesday at 1000 satisfies the requirements of this test.

4.2.1 To log on to "RapidReach," PERFORM the following:

- a. OPEN "RapidReach Primary" folder and DOUBLE CLICK on "RapidReach" icon.
- b. At "RapidReach login" screen, SELECT "Shift Tech" as user and SELECT "OK."
- c. At "Password" screen, ENTER password and SELECT "OK."
- d. IF first attempt to open "RapidReach" is *not* successful, Go To step 4.2.1.a. and OPEN "RapidReach Secondary" folder.
- e. IF second attempt to open "RapidReach" is *not* successful, Go To step 4.2.3.
- f. WHEN "Overview" screen appears, SELECT "lightning bolt" icon.

4.2.2 To activate NU radiopager of the on-shift Shift Technician, PERFORM the following:

- a. WHEN "Quick Start Scenario" table appears, SELECT appropriate code and Shift Technician name.

Level of Use
General

STOP THINK ACT REVIEW

C-OP 608

Rev. 2

7 of 22

- b. SELECT "OK."
- c. SELECT "Set Common Message."
- d. At "Root" tree, SELECT appropriate message (i.e., "Test Call-Outs," Shift Tech Daily Test, etc.).
- e. SELECT "OK."
- f. WHEN "Start of Scenario" appears, SELECT "Start."
- g. VERIFY page sent by monitoring "Overview" screen and by monitoring personal radiopager activation.
- h. Using designated call-in number, ACKNOWLEDGE page by calling in to ENRS.
- i. VERIFY call received by monitoring "Overview" screen.

4.2.3 IF radiopager does *not* activate, ACTIVATE radiopager via NU pager System (NUWAPS) using Shift Technician pager ID.

4.2.4 WHEN test is complete, RECORD the following on Attachment 1, "ENRS Daily Operability Test:"

- Date
- Time
- Name of Person Conducting Test
- An "X" in appropriate Unit Box

NOTE

Test is "Sat" if radiopager is operable and is activated through ENRS operation.

- Test was "Sat" or "Unsat"
- Any remarks or corrective actions.

4.2.5 SELECT "File."

4.2.6 SELECT "Exit" to deactivate call-out and Go To Step 4.4.

Level of Use
General

STOP THINK ACT REVIEW

C-OP 608

Rev. 2

8 of 22

4.3 ENRS Weekly Operability Test – State and Local Officials

NOTE

1. The ENRS Weekly Operability test is performed each week on Wednesday at 1000 by the Unit 3 Shift Technician.
2. The ENRS Monthly Operability test conducted on the first Wednesday of each month satisfies the requirements of the weekly operability test.
3. All actions are at the applicable operator terminal unless otherwise indicated.
4. IF an emergency planning drill is being conducted on a Wednesday and State and Local officials are participating, drill initiation via radiopager will satisfy the weekly requirement.

4.3.1 NOTIFY affected control room before performing test on ENRS terminal.

4.3.2 Refer To Attachment 3, "Drill Announcement Message for IRF Template," and PERFORM the following at ENRS terminal for the weekly ENRS test.

- a. OPEN "RapidReach Primary" folder and DOUBLE CLICK on "RapidReach" icon.
- b. At "RapidReach login" screen, SELECT "Shift Tech" as user and SELECT "OK."
- c. At "Password" screen, ENTER password and SELECT "OK."
- d. IF "Overview" screen appears, MINIMIZE screen and Go To step 4.3.3.
- e. IF first attempt to open "RapidReach" is *not* successful, Go To step 4.3.2.a. and OPEN "RapidReach Secondary" folder.
- f. IF "RapidReach Primary" folder and "RapidReach Secondary" folder are *not* available, LOG on to "EasyView Remote" and PERFORM the following:
 - 1) SELECT phone link icon from "RapidReach Primary" or "RapidReach Secondary" folder.
 - 2) OPEN "EasyView Remote" icon.

Level of Use
General

STOP THINK ACT REVIEW

C-OP 608

Rev. 2

9 of 22

- 3) SELECT "Shift Tech" as user and SELECT "OK."
- 4) At "Password" screen, ENTER password and SELECT "OK."
- 5) On "EasyView" screen, SELECT appropriate scenario from menu.
- 6) SELECT "lightning bolt" icon.
- 7) WHEN "Start of Scenario" screen appears, SELECT "Set Common Message."
- 8) At "Root" tree, SELECT appropriate message (i.e., "Test Call-outs," "Weekly Pager Test-No Response Required," etc.)
- 9) SELECT "OK."
- 10) WHEN "Start of Scenario" screen appears, SELECT "Start."
- 11) VERIFY page sent by monitoring "EasyView" screen and Go To step 4.3.6.d.

4.3.3 To log on to "EasyView" and enter IRF data into ENRS, DOUBLE CLICK on "EasyView" icon.

- a. At "EasyView login" screen, SELECT "Shift Tech" as user and SELECT "OK."
- b. At "Password" screen, ENTER password and SELECT "OK."
- c. WHEN "EasyView" screen appears, MINIMIZE screen.
- d. DOUBLE CLICK on "Form" icon.
- e. Refer To Attachment 3 and ENTER event information into IRF template, including "This is a drill" at the beginning and end of "Additional Information" section.
- f. PRINT IRF and VERIFY information is correct.
- g. IF information on IRF printout is *not* correct, EDIT template and PRINT IRF.

Level of Use
General

STOP THINK ACT REVIEW

C-OP 608

Rev. 2

10 of 22

- 4.3.4 To record IRF data into ENRS, PERFORM the following:
- a. MAXIMIZE "RapidReach" screen and SELECT "microphone" icon (Show Message Window).
 - b. DOUBLE CLICK on "Root" tree. --
 - c. SELECT "Informational Message."
 - d. Under "Audio Message," SELECT "microphone" icon.
 - e. WHEN "Record" screen appears, SELECT "Rec" button.
 - f. After recording entire IRF, SELECT "Stop."
 - g. SELECT "Play" and VERIFY all recorded information is the following:
 - correct
 - clear
 - audible
 - h. IF step 4.3.4.g. is *not* true, Go To step 4.3.4.e.
 - i. SELECT "OK"
 - j. Under "Root" tree, SELECT "Test Call-outs" and "Weekly Pager Test - No Response Required Page."
 - k. LISTEN to message.

- 4.3.5 To transmit IRF Message, PERFORM the following:
- a. SELECT "EasyView" screen and SELECT appropriate scenario from menu.
 - b. SELECT "lightning bolt" icon.
 - c. WHEN "Start of Scenario" appears, SELECT "Set Common Message."
 - d. At "Root" tree, SELECT appropriate message (i.e., "Test Call-outs," "Weekly Pager Test - No Response Required," etc.).

- e. SELECT "OK."
- f. WHEN "Start of Scenario" screen appears, SELECT "Start."

4.3.6 To verify radiopage sent, PERFORM the following:

- a. MONITOR "EasyView" screen and VERIFY controlled console radiopager activates.
- b. Using designated call-in number, ACKNOWLEDGE page by calling in.
- c. SELECT "RapidReach" screen and MONITOR callback on "Overview" screen.
- d. IF pager(s) do(es) *not* activate, PERFORM one of the following:
 - 1) ACTIVATE radiopager using NU pager system (NUWAPS).
 - 2) CALL Security and DIRECT them to activate radiopager.

4.3.7 To restore general default, SELECT "RapidReach" screen and SELECT "Show Message Window" button.

- a. DOUBLE CLICK on "Root" tree.
- b. SELECT "Informational Message."
- c. Under "Audio Message," SELECT "microphone" icon.
- d. WHEN "Record" screen appears, SELECT "Rec" button.
- e. RECORD the following:
 - "There is no information presently available for Millstone Station."
- f. WHEN message has been recorded, SELECT "Stop."

- g. SELECT "Play" and VERIFY all recorded information is the following:
- correct
 - clear
 - audible
- h. IF step 4.3.7.g. is *not* true, Go To step 4.3.7.d.
- i. SELECT "OK."
- j. SELECT "File" and "Exit" to deactivate call-out.
- k. WHEN test is complete, RECORD the following on Attachment 2, "ENRS Weekly Operability Test:"
- Date
 - Time
 - Name of person conducting test
 - An 'X' in appropriate "Unit" box

NOTE

Test is "SAT" if ENRS software functioned as required, and radiopager is operational and activated through ENRS operation. If radiopager activation was performed using EasyView Remote, immediate service call is required.

- Test was "Sat" or "Unsat"
- Any remarks or corrective action.

4.3.8 Go To section 4.4.

Level of Use
General

STOP

THINK

ACT

REVIEW

C-OP 608

Rev. 2

13 of 22

4.4 Acceptance Criteria and Reporting

- 4.4.1 **IF** acceptance criteria listed on Attachment 1 or 2 are *not* met, **PERFORM** the following:
- a. **NOTIFY** affected unit SM or US of system problem and **PERFORM** the applicable action:
- Refer To WC 1 or RP 4 and SUBMIT TR or CR as appropriate.
 - **IF** hardware related problem, Refer To EPUG-08B (Att 2) and REQUEST Information Technology repair hardware.
 - **IF** software related problem, Refer to EPUG-08B (Att 1) and REQUEST EPSS support.
 - **IF** telephone line problems are detected or reported, **PERFORM** one of the following actions:
 - **IF** during normal working hours, **NOTIFY** station Telecommunications.
 - **IF** after normal working hours, Refer To EPUG-08B (Att 1) and **NOTIFY** Telecommunications personnel.
- 4.4.2 **IF** acceptance criteria have been satisfied, REQUEST SM or US mark "Yes" on Attachment 1 or 2, Sheet 1, "Acceptance Criteria Satisfied" and SIGN and DATE.
- 4.4.3 At the end of each month, **COMPILE** surveillance data package consisting of the following:
- Attachment 1, "ENRS Daily Radiopager Operability Test"
 - Attachment 2, "ENRS Weekly Operability Test"
- 4.4.4 **NOTIFY** Emergency Planning Services of "UNSAT" items (via telephone, voice mail, or E-Mail).
- 4.4.5 **SEND** copy of monthly surveillance package to Station Emergency Planning Services Department.

Level of Use
General

STOP THINK ACT REVIEW

C-OP 608
Rev. 2
14 of 22

4.4.6 Refer To NDM 1, "Turnover of Nuclear Records," and SEND original packages to Nuclear Document Services.

– End of Section 4.4 –

Level of Use
General

STOP

THINK

ACT

REVIEW

C-OP 608

Rev. 2

15 of 22

5. REVIEW AND SIGNOFF

5.1 The review and signoff for this procedure is contained in the following:

- Attachment 1, "ENRS Daily Radiopager Operability Test"
- Attachment 2, "ENRS Weekly Operability Test"

6. REFERENCES

6.1 10CFR50, Appendix E, "Emergency Planning and Preparedness for Production and Utilization Facilities," sections D and E

6.2 EPAP 1.15, "Management Program for Maintaining Emergency Preparedness"

7. SUMMARY OF CHANGES

7.1 This procedure was completely revised to reflect that the "old" ENRS system has been replaced by the "new" (RapidReach) ENRS system. To minimize confusion and maintain continuity, the system will continue to be simply referred to as ENRS. The following changes were made to reflect the new system:

- 7.1.1 Deleted prerecorded daily test of emergency paging system throughout procedure. This is now performed as part of daily test of ENRS.
- 7.1.2 Deleted information in Section 1.2 relating to automatic test of radiopager. This is not applicable to "new" ENRS.
- 7.1.3 Changed 2.1.2 to reflect that the Shift Tech has ensured no actual event is in progress.
- 7.1.4 Added new prerequisite to ensure the ENRS phone server on-line at all times.
- 7.1.5 Added new definitions and precaution to select the correct scenario on the test.
- 7.1.6 Replaced section for "Daily Operability Test," "ENRS Daily Radiopager Operability Test – Unit 3" and "Weekly Operability Test," with Section 4.2 "ENRS Daily Radiopager Operability Test – Shift Technician Pager Only" with instructions for "new" ENRS pager test.

Level of Use
General

STOP THINK ACT REVIEW

C-OP 608

Rev. 2

16 of 22

- 7.1.7 Deleted attachment for "Radiopager Daily Operability Test" as it is redundant with attachment for "ENRS Daily Operability Test" which was revised and renamed Attachment 1, "ENRS Daily Radiopager Operability Test."
- 7.1.8 Because SERO pagers are also used for other company and personal use and are tested each time a message is received, Operability Test was changed from Daily to Weekly.
- 7.1.9 Deleted references to Unit 1 because Unit 2 has a terminal that can be used.
- 7.1.10 Modified IRF attachment.
- 7.1.11 Deleted attachment for "ENRS Processor Layout."
- 7.2 Changed instances of "local governments" to "local officials."
- 7.3 References to EPUG-02 were deleted from procedure as they are no longer applicable.
- 7.4 Daily test of paging system is not applicable deleted from Section 1.4. Changed ENRS daily test schedule to reflect applicable unit. Clarified weekly schedule and requirements.
- 7.5 Changed 4.4.1 to reflect departments responsible for hardware and software support.
- 7.6 Changed distribution of Attachment 1 and 2 from sending original to Emergency Planning to sending a copy of attachments to Emergency Planning and sending the original to NDS.
- 7.7 Added "for IRF Template" to title of Attachment 3 for continuity.

Attachment I
ENRS Daily Radiopager Operability Test
 (Sheet 1 of 2)

Generic Information

Form Title ENRS Daily Operability Test		Rev. No. 2
Reference Procedure C-OP 608	Applicable Tech. Spec. N/A	Frequency D
This form is being used for the following: <input type="checkbox"/> Tech Spec Surveillance <input type="checkbox"/> System Alignment <input type="checkbox"/> Other: _____ <input type="checkbox"/> Maintenance Restoration (Retest) <input checked="" type="checkbox"/> Non-Tech Spec Surveillance (PM)		

Specific Information

Schedule Date	Applicable Mode ALL	Partial Surveillance <input type="checkbox"/>
Test Authorized By (SM or US)	Date	
Prerequisites Completed (Initials)	Precautions Noted (Initials)	
Performed By	Date	
Accepted By (SM or US)	Date	Acceptance Criteria Satisfied(4.4) <input type="checkbox"/> Yes <input type="checkbox"/> No
Approved By (Department Head or Designee)	Date	
Surveillance Information		
Test Equipment Type	QA Number	Calibration Due Date
N/A	N/A	N/A

Comments:

ENRS radiopager is tested daily between 0800 and 1600 hours.

The Shift Technician performs this test from Unit 2 on Tuesday, Thursday and Saturday and from Unit 3 terminal on Monday, Wednesday, and Friday. There is no daily test on Sunday.

Distribution: Copy to Emergency Planning Services Department; original to NDS.

Level of Use
General

STOP THINK ACT REVIEW

C-OP 608
Rev. 2
18 of 22

Attachment 2
ENRS Weekly Operability Test
(Sheet 1 of 2)

Generic Information

Form Title ENRS Weekly Operability Test		Rev. No. 2
Reference Procedure C-OP 608	Applicable Tech. Spec. N/A	Frequency W
This form is being used for the following: <input type="checkbox"/> Tech Spec Surveillance <input type="checkbox"/> System Alignment <input type="checkbox"/> Other: _____ <input type="checkbox"/> Maintenance Restoration (Retest) <input checked="" type="checkbox"/> Non-Tech Spec Surveillance (PM)		

Specific Information

Schedule Date	Applicable Mode ALL	Partial Surveillance <input type="checkbox"/>
Test Authorized By (SM or US)	Date	
Prerequisites Completed (Initials)	Precautions Noted (Initials)	
Performed By	Date	
Accepted By (SM or US)	Date	Acceptance Criteria Satisfied (4.4) <input type="checkbox"/> Yes <input type="checkbox"/> No
Approved By (Department Head or Designee)	Date	
Surveillance Information		
Test Equipment Type	QA Number	Calibration Due Date
N/A	N/A	N/A

Comments:

ENRS is tested weekly on Wednesday at 1000. The Shift Technician performs this test from Unit 3 on the 1st and 3rd Wednesday of each month, and from Unit 2 on the 2nd and 4th Wednesday of each month.

Distribution: Copy to Emergency Planning Services Department; original to NDS

Level of Use
General

STOP THINK ACT REVIEW

C-OP 608
Rev. 2
20 of 22

Attachment 2
ENRS Weekly Operability Test
 (Sheet 2 of 2)

ENRS Weekly Operability Test Log Sheet

MONTH:					YEAR:		
					Acceptance Criteria		
					ENRS terminal responds as required		
Date	Time	Name	U-2	U-3	Sat (Init)	Unsat(Init)	Remarks/ Corrective Action

Level of Use
General

STOP THINK ACT REVIEW

