

Dominion Nuclear Connecticut, Inc.
Millstone Power Station
Rope Ferry Road
Waterford, CT 06385



DEC 5 2001

Docket Nos. 50-245
50-336
50-423
B18535

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 that the following Emergency Plan Procedures have been implemented:

- MP-26-EPI-FAP03-002, "Assistant Radiation Protection Supervisor (ARPS)," Major Revision 0, Minor Revision 1, transmitted via Attachment 1;
- MP-26-EPI-FAP03-004, "CBETS Operator," Major Revision 0, Minor Revision 1, transmitted via Attachment 2;
- MP-26-EPI-FAP04-003, "Manager of Radiological Dose Assessment (MRDA)," Major Revision 0, Minor Revision 2, transmitted via Attachment 3;
- MP-26-EPI-FAP04-006, "Field Team Data Coordinator (FTDC)," Major Revision 0, Minor Revision 2, transmitted via Attachment 4;
- MP-26-EPI-FAP06-006, "EOF Protective Action Recommendations," Major Revision 0, Minor Revision 1, transmitted via Attachment 5;
- MP-26-EPI-FAP08, "Evacuation and Assembly," Major Revision 0, Minor Revision 3, transmitted via Attachment 6;
- MP-26-EPI-FAP15-006, "OFIS Instruction," Major Revision 0, Minor Revision 2, transmitted via Attachment 7; and
- EPAP 1.15, "Management Program for Maintaining Emergency Preparedness," Major Revision 7, Minor Revision 2, transmitted via Attachment 8.

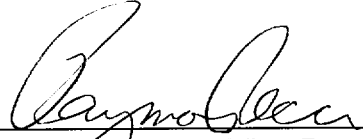
There are no regulatory commitments contained within this letter.

A045

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

Very truly yours,

DOMINION NUCLEAR CONNECTICUT, INC.

A handwritten signature in black ink, appearing to read "Raymond P. Necci", is written over a horizontal line.

Raymond P. Necci, Vice President
Nuclear Operations - Millstone

Attachments (8)

cc: H. J. Miller, Region I Administrator (2 copies)
R. J. Conte, Chief, Operational Safety Branch, Region I

cc: w/o attachments

J. B. Hickman, NRC Project Manager, Millstone Unit No. 1
T. J. Jackson, NRC Inspector, Region I, Millstone Unit No. 1
J. T. Harrison, NRC Project Manager, Millstone Unit No. 2
NRC Senior Resident Inspector, Millstone Unit No. 2
V. Nerses, NRC Senior Project Manager, Millstone Unit No. 3
NRC Senior Resident Inspector, Millstone Unit No. 3

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Attachment 1

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

Emergency Procedures Implementing (EPI) Functional Administrative Procedure (FAP)
MP-26-EPI-FAP03-002, "Assistant Radiation Protection Supervisor (ARPS)"
Major Revision 0, Minor Revision 1

8/22/01
Approval Date

8/23/01
Effective Date

Document Action Request

SPG#

011114-120209

Initiated By: Tom Rigney Date 11/7/01 Department: EPSD Ext.: 6586

Document No.: MP-26-EPI-FAP03-002 Rev. No.: 000 Minor Rev.: 01

Title:

Reason for Request/Action (attach commitments, CRs, ARs, OEs etc)

A/R 01005048 (CR-01-06801) Drill comment

Continued ☐

Select one (See MP-05-DC-SAP01 sect 2.3 to determine type of change)

☐ Intent Change (SQR Independent, RCD, Env Screen Required)
Other reviews may be required. See MP-05-DC-FAP 01.1 att 3

☐ Edit Corr.:

☒ Non-Intent Change
(Only SQR Independent Review and Env. screen Required)

Editorial Correction Approval

TPC Interim Approval

Plant Mgmt Staff Member - Approval

(1) Plant Mgmt Staff Member Print/Sign/Date

(2) SM/SRO/CFH Print/Sign/Date

Procedure Request/Feedback Disposition

Priority: ☒ Perform Now ☐ Perform Later

Activity: ☐ Revision ☒ Minor Revision ☐ Cleanup Rev ☐ Biennial Review ☐ Cancellation ☐ Supercedure
See DC-GDL01 for guidance

☐ TPC ☐ OTC ☐ Place in VOID

| Reviews continued <input type="checkbox"/> | Print | Sign | Date | SQR Qualified | | | If Comments |
|--|------------|------------|----------|-------------------------------------|--------------------------|-------|----------------|
| | | | | Yes | No | Dept. | |
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| <input type="checkbox"/> | | | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 50.549 <input checked="" type="checkbox"/> | Tom Rigney | Tom Rigney | 11/16/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EPSD | |
| Environmental Screen <input checked="" type="checkbox"/> | Tom Rigney | Tom Rigney | 11/16/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EPSD | |
| Licensing Basis <input type="checkbox"/> | | | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Independent <input checked="" type="checkbox"/> | Tom Rigney | Tom Rigney | 11/16/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EPSD | |

An NRRL Update Required ☐ YES

1. ☒ SQR Program Final Review and Approval

Approval ☐ Disapproval ☐

Supp 11/16/01
SQR Qualified Independent Reviewer / Date
Paul Blawie
Process Owner
Responsible Individual
11/16/01
Approval Date

2. ☐ SORC ☐ RI/PO Final Review and Approval

Process Owner / Responsible Individual Sign
Meeting No.: _____

SORC Approval Signature

Approval Date

Effective Date: 11/20/01

11/16/01
Approval Date

11/20/01
Effective Date

Assistant Radiation Protection Supervisor (ARPS)

This form provides guidance to the ARPS emergency response actions during a declared emergency that activates the SERO.

Section A: ARPS Initial Actions

- ☐ 1. Key into the OSC Assembly Area.
- ☐ 2. Obtain current plant and radiological status briefing from the MRCA.
- ☐ 3. Establish and maintain a log of activities, enter date and arrival time on the Log Sheet.
- ☐ 4. Assess habitability of the OSC AA.
- ☐ 5. Contact the following facilities and verify AMS-3 or radiological monitor is operational:
 - TSC/OSC
 - EOF
 - NAP/SAP
 - CAS
 - SAS
- ☐ 6. Assess radiation protection support for emergency teams deployed from the control room.
- ☐ 7. Direct the CBETS Operator identify available exposures for RMTs and emergency team personnel.

①

Section B: Recurring Actions

- ☐ 1. Monitor habitability of the TSC/OSC and OSC Assembly Area.
- ☐ 2. Periodically contact RMT-1 and request a status of radiological conditions and teams out of the Control Room.

Section B: Recurring Actions

NOTE

- If briefing a PASS team, inform teams that dose rates around the sample module may significantly increase once flow is initiated to trap a sample.
- For Unit 3 PASS team, predesignated travel routes are included in the Unit 3 FSAR, Chapter 12, Section 12.3, Figure 12.3-10 (sheets 3 & 4).

- ☐ 3. Refer To EPI-FAP15-010, "Emergency Team Briefing Sheet," and provide the following to emergency teams awaiting dispatch:
 - Radiological briefing
 - Equipment
 - HP Support
- ☐ 4. Notify the MRCA if an exposure upgrade is needed for any team or team member.
- ☐ 5. Work with the CBETS Operator and track SERO exposure
- ☐ 6. Monitor exposure and radiological conditions identified by emergency teams deployed from the OSC AA.
- ☐ 7. Coordinate the implementation of Personnel Protective Action Decisions with the MRCA and MOSC.
- ☐ 8. Identify the need for additional resources to the MRCA.
- ☐ 9. Notify the MRCA of on-site radiological conditions and accumulated dose as reported by the deployed teams.

Prepared by: _____
Signature Print Date

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Attachment 2

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

Emergency Procedures Implementing (EPI) Functional Administrative Procedure (FAP)

MP-26-EPI-FAP03-004, "CBETS Operator"

Major Revision 0, Minor Revision 1

8/22/01
Approval Date

8/23/01
Effective Date

Document Action Request

SPG#

011114-104002

Initiated By: Tom Rigney Date 11/7/01 Department: EPSD Ext.: 6586

Document No.: MP-26-EPI-FAP03-004 Rev. No.: 000 Minor Rev.: 01

Title:

Reason for Request/Action (attach commitments, CRs, ARs, OEs etc)

A/R 01005048 (CR-01-06801) Drill comment

Continued ☐

Select one (See MP-05-DC-SAP01 sect 2.3 to determine type of change)

☐ Intent Change (SQR Independent, RCD, Env Screen Required)
Other reviews may be required. See MP-05-DC-FAP 01.1 att 3

☒ Edit Corr.:

☐ Non-Intent Change
(Only SQR Independent Review and Env. screen Required)

Editorial Correction Approval

Plant Mgmt Staff Member - Approval

TPC Interim Approval

(1) Plant Mgmt Staff Member Print/Sign/Date

(2) SM/SRO/CFH Print/Sign/Date

Procedure Request/Feedback Disposition

Priority: ☒ Perform Now ☐ Perform Later

Activity: ☐ Revision ☒ Minor Revision ☐ Cleanup Rev ☐ Biennial Review ☐ Cancellation ☐ Supercedure
See DC-GOLD1 for guidance

☐ TPC ☐ OTC ☐ Place in VOID

| Reviews continued <input type="checkbox"/> | Print | Sign | Date | SQR Qualified | | | If Comments |
|--|-------------|------------|----------|-------------------------------------|--------------------------|-------|----------------|
| | | | | Yes | No | Dept. | |
| <input type="checkbox"/> | | | | <input type="checkbox"/> | <input type="checkbox"/> | | |
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| <input type="checkbox"/> | | | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 50154g <input checked="" type="checkbox"/> | TOM RIGNEY | Tom Rigney | 11/16/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EPSD | |
| Environmental Screen <input checked="" type="checkbox"/> | TOM RIGNEY | Tom Rigney | 11/16/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EPSD | |
| Licensing Basis <input type="checkbox"/> | | | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Independent <input checked="" type="checkbox"/> | TOM GILBERT | Supp | 11/16/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EPSD | |

An NRRL Update Required ☐ YES

1. ☒ SQR Program Final Review and Approval

Approval ☐ Disapproval ☐

SQR Qualified Independent Reviewer / Date

Process Owner Paul Blanks 11/16/01

Responsible Individual

11/16/01

Approval Date

2. ☐ SORC ☐ RI/PO Final Review and Approval

Process Owner / Responsible Individual Sign

Meeting No.: _____

SORC Approval Signature

Approval Date

Effective Date: 11/20/01

11/16/01
Approval Date

11/20/01
Effective Date

CBETS Operator

This form provides guidance to the Computer Based Exposure Tracking system (CBETS) Operator for emergency response actions during an event that activates the SERO.

Section A: Initial Actions

- ☐ 1. Sign in on OSC AA Staffing Board.
- ☐ 2. Notify MRCA of arrival and obtain event conditions and status update.
- ☐ 3. Access CBETS system and obtain current exposure records, as requested.
- ☐ 4. Refer To EPI-FAP09, "Radiation Exposure Controls," and log any current exposures for identified SERO personnel.
- ☐ 5. Notify MRCA of personnel who are restricted or limited to low exposures.

Section B: Recurring Actions

- ☐ 1. Refer To EPI-FAP09, "Radiation Exposure Controls," and issue emergency dosimetry, as necessary.
- ☐ 2. Ensure personnel assigned emergency activities (repairs, search and rescue, etc.) have the correct documentation for the exposure they are expected to receive during the activity.
- ☐ 3. Refer To EPI-FAP09, "Radiation Exposure Controls," and assist with emergency exposure control.
- ☐ 4. Update MRCA of radiation exposure assignments and potential issues.
- ☐ 5. Update and maintain the Exposure Status Board.
- ☐ 6. When requested by the MRCA or MRDA, perform the following:
 - Review radiation exposure reports or logs to determine available personnel radiation exposures
 - Refer To EPI-FAP09-004, "Emergency Worker Access and Exposure Control Log," and review personnel who have had an emergency exposure limit authorized | ①
 - Complete EPI-FAP09-003, KI Issue Authorization and Tracking Sheet and assist in the issuance of KI to the SERO

Section B: Recurring Actions

- ☐ 7. Review CBETS and record exposures for the names of the personnel provided by the MRCA or MRDA.

NOTE

Manual entry is acceptable if it helps promote prompt deployment of teams, provided reports are eventually updated (10 CFR 20.1001).

If CBETS is not available, exposures must be listed manually.

If worker is not on dosimetry list, the MRCA must authorize access.

- ☐ 8. Include exposure received while performing emergency work in each worker's routine exposure record and history.
- ☐ 9. Issue the following dosimetry to emergency response personnel.
- Thermoluminescent Dosimeter
 - Low Range Pocket Ion Chamber (PIC)
 - High Range PIC
 - Extremity Dosimetry
 - Electronic Dosimetry
- ☐ 10. Maintain dosimetry issue and radiation exposure control records.
- ☐ 11. WHEN received, enter each worker's dose results and other information on file.
- ☐ 12. Collect and maintain all approved EPI-FAP09-003 documents. | ①

Section C: Termination

- ☐ 1. Subtract 10 CFR 50.47.b(11) emergency exposures from occupation exposure records and apply to individual's Planned Special Exposure record per 10 CFR 20.
- ☐ 2. WHEN final results are available, report total and available exposures to workers.
- ☐ 3. Secure computerized dosimetry system by closing window to PREM program after exiting PREM through the menu process..
- ☐ 4. Send all completed records to MRCA for review and processing by Health Physics.

Prepared by: _____
Signature Print Date

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Attachment 3

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

Emergency Procedures Implementing (EPI) Functional Administrative Procedure (FAP)

MP-26-EPI-FAP04-003, "Manager of Radiological Dose Assessment (MRDA)"

Major Revision 0, Minor Revision 2

08/22/01
Approval Date



08/23/01
Effective Date

| Document Action Request | | | | | SPG # 010928-063705 | |
|---|--|-------------------------|---|-------------------------------------|--------------------------|---|
| Initiated By: <u>Mark White</u> | | Date: <u>09/28/2001</u> | Department: <u>EP</u> | Ext: <u>2490</u> | | |
| Document No: <u>MP-26-EPI-FAP04-003</u> | | Rev. No: <u>000</u> | Minor Rev No: <u>02</u> | | | |
| Title: Manager of Radiological Dose Assessment | | | | | | |
| Reason for Request (attach commitments, CR's, AR's, etc) | | | | | | |
| Select One <small>See MP-05-DC-SAP01 sect 2.3 to determine type of change</small> Continued <input type="checkbox"/> | | | | | | |
| <input checked="" type="checkbox"/> Intent Change (SQR Independent, RCD, ENV Screen Required) <input type="checkbox"/> Edit Corr <input type="checkbox"/> Non-Intent Change <small>(Other reviews may be required. See MP-05-DC-FAP 01.1 Att 3) (Only SQR Independent Review and Env. screen Required)</small> | | | | | | |
| Editorial Correction Approval _____ Plant Mngt Staff Member - Approval / Date | | | TPC Interim Approval _____ (1) Plant Mngt Staff Member Print/Sign/Date _____ (2) SM/SRO/CFH on Unit Print/Sign/Date | | | |
| Procedure Request/Feedback Disposition | | | | | | |
| Priority: <input checked="" type="checkbox"/> Perform Now <input type="checkbox"/> Perform Later - See Comments | | | | | | |
| Activity: <input type="checkbox"/> Revision <input checked="" type="checkbox"/> Minor Revision <input type="checkbox"/> Cleanup Rev <input type="checkbox"/> Biennial Review <input type="checkbox"/> Cancellation <input type="checkbox"/> Supercedure <small>See DC-GDI01 for guidance</small> | | | | | | |
| <input type="checkbox"/> TPC <input type="checkbox"/> OTC <input type="checkbox"/> Place in Void | | | | | | |
| Reviews <small>continued</small> <input type="checkbox"/> | Print | Sign | Date | SQR Qualified | | <input checked="" type="checkbox"/> If Comments |
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| 50.54(a) | <input checked="" type="checkbox"/> MARK WHITE | <i>Mark White</i> | 9/28/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EPSPD |
| Environmental | <input checked="" type="checkbox"/> MARK WHITE | <i>Mark White</i> | 9/28/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EPSPD |
| RED 10/1/01 licensing basis KB | <input checked="" type="checkbox"/> K Burgess | <i>K Burgess</i> | 10/1/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EPSPD |
| Independent | <input checked="" type="checkbox"/> K Burgess | <i>K Burgess</i> | 10/1/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EPSPD |
| An NRRL update was required? <input type="checkbox"/> Yes | | | | | | |
| 1. <input checked="" type="checkbox"/> SQR Program Final Review and Approval Approval <input checked="" type="checkbox"/> Disapproval <input type="checkbox"/> <i>K Burgess</i> 10/23/01 SQR Qualified Independent Reviewer / Date <i>Carol A. Lundy</i> Department Head/Responsible Individual 11/19/01 Approval Date | | | 2. <input type="checkbox"/> SORC <input checked="" type="checkbox"/> RI/DH Final Review and Approval N/A Department Head/Responsible Individual Sign Meeting No. _____ SORC Approval Signature Approval Date | | | |
| Effective Date <u>11/29/01</u> | | | | | | |

11/19/01
Approval Date

11/29/01
Effective Date

Manager of Radiological Dose Assessment (MRDA)

This form provides guidance to the MRDA for emergency response actions during events that activate the SERO.

Section A: Initial Activation

- ☐ 1. Sign in on the EOF Staffing Board and log date and arrival time on the SERO Log Sheet.
- ☐ 2. Notify the ADEOF of arrival and obtain event conditions and status update.
- ☐ 3. Maintain a log of significant events and communications on the SERO Log Sheet.
- ☐ 4. Assume coordination and supervision of the Radiological Dose Assessment Team (RDAT).
- ☐ 5. Review RDAT assignments and reassign actions, as necessary.
- ☐ 6. Upon DSEO turnover, perform the following:
 - Ensure the AMRDA has relieved the on-shift Chem Tech of dose assessment responsibilities.
 - Notify the ADEOF of dose assessment turnover from the on-shift Chem Tech.
- ☐ 7. Ensure the off-site RMTs are assembled, briefed and prepared for dispatch.
 - Coordinate RMT access to locked site areas with the MOS in the TSC, as necessary.
 - IF over water surveys are required, request the MOR provide transportation to the Environmental Laboratory and the boat location.
- ☐ 8. IF not constrained, direct the FTDC to dispatch off-site RMTs (specifically to the vicinity of site boundary in the downwind direction) and establish field communications as soon as possible.
- ☐ 9. IF a release impacts the EOF, ensure the EOF high radiation ventilation filtration system is activated by the EOF HP Technician.
- ☐ 10. Assign an RDAT member to test phones, hotlines, and fax machines.

Section B: Radiological Controls

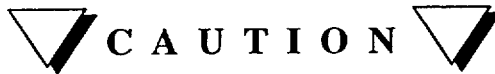


EPA-400 allows for an unrestricted emergency worker exposure of 5 Rem during a declared event, regardless of 10 CFR 20 occupational exposure previously received.

For ALARA purposes at Millstone, an ALERT or higher declaration automatically increases exposures to 4.5 Rem TEDE less annual exposure to date. If dosimetry records are unavailable for prompt deployment, a 1.5 Rem TEDE limit may be assumed. (4.5 Rem emergency worker limit minus 3 Rem contractor limit).

- ☐ 1. Consult with the MRCA on radiological conditions and on-site personnel protective action decisions.
- ☐ 2. Refer To and implement EPI-FAP09, "Radiation Exposure Controls," to:
 - Establish/upgrade off-site RMT exposure limits.
 - Evaluate/issue KI to offsite RMTs.
 - Determine DDE limit reductions.
- ☐ 3. Inform the State DEP of assumed DDE limit reductions.

Section C: Meteorological Data



Plant and dose based PARs utilize 15 minute average meteorological data. The EDAN and MP3 OFIS provide 15 minute average data.

The MP2 OFIS provides instantaneous readings which may *not* accurately identify average the plume direction. The MP2 OFIS data should only be used if it is trended.

NOTE

Wind direction data are critical to making PARs and accurate dose projections. Data is provided as a 3 digit number between 000°-360° representing the bearing from which the wind is blowing at the applicable release height (000° and 360° are from north; 180° is from south).

If no release is ongoing, the default height is the 142' elevation at MP.

- ☐ 1. IF necessary, Refer To EPI-FAP04-010, "Meteorological Assistant," and perform essential steps.
- ☐ 2. Maintain meteorological data applicable to the release elevations.

Section D: Dose Projections

NOTE

Time permitting, "What If" and "Worse Case" calculations are encouraged. Results shall be described as "hypothetical" or "bounding" in discussions with the ADEOF and DEP.

- ☐ 1. Immediately notify the ADEOF, DSEO, and MRCA any time off-site radiological or meteorological conditions change significantly or are expected to change.
- ☐ 2. Verify the release pathway and characteristics with the MTSC or the AMTL.
- ☐ 3. Brief the RAE on critical dose assessment inputs (e.g., release direction, core damage status, release filtering, containment spray, etc.)
- ☐ 4. Ensure the following are performed by the assigned staff:
 - a) IF a release is in progress, obtain effluent radiation monitor readings, radiation survey results, and TEDE and CDE thyroid dose calculations at site boundary, 5 mile, and 10 mile using EPI-FAP10, "Dose Assessment."
 - b) "What If" dose projections are developed for known source terms released to the RCS or containment.
 - c) "Worst Case" dose projections are developed for severe accident sequences in cooperation with AMTL or MTSC, as appropriate.
- ☐ 5. Identify maximum off-site airborne doses (both TEDE and CDE thyroid) at the site boundary, 5 miles, and 10 miles downwind.
- ☐ 6. Communicate dose assessment results and basis to the ADEOF, State DEP, and the NRC.
- ☐ 7. Immediately notify the ADEOF when EPA PAG limits exceed or are projected to exceed off-site TEDE ≥ 1 Rem or CDE ≥ 5 Rem.
- ☐ 8. IF dose projections indicate EPA PAGs may be exceeded beyond the 10 mile EPZ, perform the following:
 - a) Dispatch RMTs to define boundary beyond 10 mile EPZ.
 - b) Verify projected doses with RMT readings.
 - c) Inform the ADEOF of boundaries and doses to areas beyond 10 mile EPZ that may exceed EPA PAGs.
- ☐ 9. IF a radioactive liquid release via the quarry has occurred, calculate dose to the maximum individual using the REMODCM methods.

Section D: Dose Projections

- ☐ 10. IF a radioactive liquid release via the storm drain system has occurred, calculate dose to the maximum individual using the REMODCM methods with the following input values:
 - Flow - 0.22 CFS
 - Dilution factor for fish, invertebrate, and boat pathways - 100
 - Dilution factor for shore and swim pathways - 240
- ☐ 11. Update the radiological status boards.

Section E: Routine Activities

- ☐ 1. Provide input on radiological emergency classification or PAR changes to the ADEOF.
- ☐ 2. Discuss status of actual or potential release scenarios with the ADEOF.
- ☐ 3. Direct the EOF HP Technician to monitor habitability and provide radiological coverage for building access, as necessary.
- ☐ 4. After an initial PAR has been issued, notify the ADEOF of actual meteorological or radiological conditions that require an updated PAR to be issued.
- ☐ 5. Determine personnel resources and establishes individual work priorities. (e.g., off-site dose assessment strategy).
- ☐ 6. IF an effluent sample is required, Refer To EPI-FAP11, "Core Damage Assessment."
- ☐ 7. IF an environmental sample is required, Refer To the appropriate RPM procedure as follows:
 - RPM 2.9.5, "Milk Sampling"
 - RPM 2.9.6, "BIOTA Sampling"
 - RPM 2.9.8, "Soil Sampling"
 - RPM 2.9.9, "Terrestrial Water Sampling"
- ☐ 8. Assign, brief, and dispatch RMTs to obtain environmental sample.
- ☐ 9. Monitor changes in the radiological release pathways via OFIS, TIC, or AMT.
- ☐ 10. Provide input to NRC questions on radiological information via the HPN, as necessary.

①

②

Section E: Routine Activities

- ☐ 11. Consult with the State DEP representative on the following:
 - Dose assessments and field team coordination
 - RMT data
 - Meteorological data
- ☐ 12. Immediately notify the ADEOF, and MRCA when off-site radiological conditions have changed significantly or are expected to change.
- ☐ 13. Consult with the MTSC or AMTL regarding radiological data that may affect the following:
 - Plant recovery plans that may effect radiological conditions
 - Accident sequence
 - Radiation release paths
 - Core uncover time
 - Performance information regarding radioactivity mitigating systems
 - Compared results of radiologically based core damage estimates with results obtained using thermal hydraulic methods.
- ☐ 14. Provide a routine briefing to the RDAT on radiological status.
- ☐ 15. Maintain radiological status boards in EOC, as necessary.
- ☐ 16. Request additional personnel from the MOR, as necessary.
- ☐ 17. Process requests for PASS samples when warranted or requested by the ADTS.
- ☐ 18. Direct the RAE to calculate core damage estimations when data becomes available, as needed..

Section F: Environmental Sampling

Sample Location and Schedule

- ☐ 1. Refer To Table 1 "Sample Location References" and the following to determine which areas to begin searching for contamination:
 - For Stack ReleasesObtain data from the 374' met data
 - For Rooftop ReleasesObtain data from the 142' met data
 - For Ground ReleasesObtain data from the 33' met data
 - **DAYTIME - Wind Speed Less than 4 mph (2m/sec)**
Survey in downwind sector and 3 sectors to each side
 - **DAYTIME - Wind Speed Greater than 4 mph (2m/sec)**
Survey in downwind sector and 1 sector on each side
 - **NIGHTTIME - Wind Speed Less than 2 mph (1m/sec)**
Survey in downwind sector and 2 sectors on each side
 - **NIGHTTIME - Wind Speed Greater than 2 mph (1m/sec)**
Survey in downwind sector and 1 sector on each side
- ☐ 2. Coordinate sampling locations, schedule and strategies through State DEP.
- ☐ 3. Periodically, provide environmental sampling teams with the following:
 - Wind Direction
 - Plant Status
 - Sample Collection directions (including TLD)

Analytic Requirements

- ☐ 1. Determine the needed analytic requirements for the requested samples types:
 - HPGe or NaI
 - Iodine chemistry
 - Strontium chemistry
 - Tritium
- ☐ 2. Determine the required Minimum Detectable Levels (MDLS).

Laboratory Selection

- ☐ 1. Send samples to primary contractor for analysis.
- ☐ 2. Obtain assistance from additional contractor, as necessary.

Section F: Environmental Sampling

Preparation and Transmittal of Sample Requests

- ☐ 1. Refer To Table 2, "Record of Requested Environmental Samples," and document sample determinations.
- ☐ 2. Forward a copy of Table 2 to Environmental Services or Health Physics and record the time. | ①

Sample Delivery Confirmation, Analytic and TLD Results

- ☐ 1. Obtain Environmental Services or Health Physics confirmation that samples have been delivered to laboratory. | ①
- ☐ 2. Refer To Table 2, "Record of Requested Environmental Samples," and record laboratory results of field sample analysis.
- ☐ 3. Refer To Table 3, "Field TLD Data," and record the TLD results.

Prepared by: _____
Signature Print Date

Table 1: Sample Location References

| SAMPLE TYPE | LOCATIONS | MAPS |
|--|---|--|
| SAMPLE TYPE | LOCATIONS | MAPS |
| TLDs | Emergency TLD locations and their backgrounds as identified in the Environmental Operating Report | Millstone REMODCM |
| Air Particulates & Iodine Aquatic | Environmental Operating Report | Millstone REMODCM |
| Ground Cover (Broad Leaf Vegetation, Grass, Snow, etc.) | As taken by the Environmental Sampling Team in the Environmental Operating Report | Millstone Nuclear Power Station Field Monitoring Map Books |
| Milk (or Pasture Grass) | Dairy cows and goat census in Annual Environmental Operating Report. | Millstone REMODCM |
| Vegetables, Fruits and Water | Environmental Operating Report | Millstone REMODCM |

Table 2: Record of Requested Environmental Samples

| TYPE OF SAMPLE | LOCATIONS OR AREA | DISTANCE & DIRECTION (FROM PLANT) | APPROXIMATE TIME FOR SAMPLING | LAB | ANALYSES REQUESTED | ENV TEAM CONTACTED | | DATE & TIME RECEIVED BY LABORATORY | RESULTS RECEIVED |
|-------------------|----------------------|---|-------------------------------------|-----|-----------------------|-----------------------|-----------|--|---------------------|
| | | | | | | NAME | DATE/TIME | | |
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Performed By: _____ Reviewed By: _____

Table 3: Field TLD Data

[illegible]

*See appropriate individuals in the RDAT for a listing of emergency TLD locations and their background radiation dose levels.

Docket Nos. 50-245
50-336
50-423
B18535

Attachment 4

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

Emergency Procedures Implementing (EPI) Functional Administrative Procedure (FAP)

MP-26-EPI-FAP04-006, "Field Team Data Coordinator (FTDC)"

Major Revision 0, Minor Revision 2

8/22/01
Approval Date

8/23/01
Effective Date

Document Action Request

SPG# 011017-150812

Initiated By: Mark White Date 11/8/01 Department: EPSD Ext.: 2101

Document No.: MP-26-EPI-FAP04-006 Rev. No.: 000 Minor Rev.: 02

Title:

Reason for Request/Action (attach commitments, CRs, ARs, OEs etc)

Minor revision to address drill comment. AR 01005048-14

Continued ☐

Select one (See MP-05-DC-SAP01 sect 2.3 to determine type of change)

☒ Intent Change (SQR Independent, RCD, Env Screen Required)
Other reviews may be required. See MP-05-DC-FAP 01.1 att 3

☐ Edit Corr.:

☐ Non-Intent Change

(Only SQR Independent Review and Env. screen Required)

Editorial Correction Approval

Plant Mgmt Staff Member - Approval

TPC Interim Approval

(1) Plant Mgmt Staff Member Print/Sign/Date

(2) SM/SRO/CFH Print/Sign/Date

Procedure Request/Feedback Disposition

Priority: ☒ Perform Now ☐ Perform Later

Activity: ☐ Revision ☒ Minor Revision ☐ Cleanup Rev ☐ Biennial Review ☐ Cancellation ☐ Supersede

See DC-6DL01 for guidance

☐ TPC ☐ OTC ☐ Place in VOID

| Reviews continued <input type="checkbox"/> | Print | Sign | Date | SQR Qualified | | | ✓ # Comments |
|---|--|-------------------|----------|-------------------------------------|--------------------------|-------|-----------------|
| | | | | Yes | No | Dept. | |
| <input type="checkbox"/> | | | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| <input type="checkbox"/> | | | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| <input type="checkbox"/> | | | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 50.549 | <input checked="" type="checkbox"/> MARK WHITE | <i>Mark White</i> | 11/8/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EPSD | |
| Environmental | <input checked="" type="checkbox"/> MARK WHITE | <i>Mark White</i> | 11/8/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EPSD | |
| Licensing Basis | <input checked="" type="checkbox"/> MARK WHITE | <i>Mark White</i> | 11/8/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EPSD | |
| Independent | <input checked="" type="checkbox"/> TOM RIGNEY | <i>Tom Rigney</i> | 11/14/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EPSD | |

An NRRL Update Required ☐ YES

1. ☐ SQR Program Final Review and Approval

Approval ☒ Disapproval ☐

Tom Rigney / 11-14-01
SQR Qualified Independent Reviewer / Date

Paul A. Lacey
Process Owner
/ Responsible Individual

11/14/01
Approval Date

2. ☐ SORC ☐ RI/PO Final Review and Approval

Process Owner / Responsible Individual Sign
Meeting No.: _____

SORC Approval Signature

Approval Date

Effective Date: 11/19/01

11/14/01
Approval Date

11/19/01
Effective Date

Field Team Data Coordinator (FTDC)

This checklist provides guidance to the FTDC for emergency response actions during events that activate the SERO.

Section A: Initial Activation

- ☐ 1. Sign in on the EOF Staffing Board and log date and arrival time on the SERO Log Sheet.
- ☐ 2. Notify the MRDA of arrival and obtain event conditions and status update.
- ☐ 3. Maintain a log of significant events and communications on the SERO Log Sheet.
- ☐ 4. Using recommendations of the MRDA, AMRDAs, RAE, or Met Assistant, develop the following, as appropriate:
 - Plume tracking strategy
 - Environmental sampling strategy
- ☐ 5. Refer To and EPI-FAP15-003, "Radiation Monitoring Point Data Sheet," to record field survey and sampler results.
- ☐ 6. Obtain a map of Station Radiation Monitoring Points.
- ☐ 7. Select off-site RMT personnel and perform the following:
 - Assemble initial RMT from first available HP Technician and RMT Driver.
 - Request the CBETS Operator review personnel radiation exposure reports for off-site RMT personnel.
 - IF the CBETS report is not available, utilize 1.5 Rem TEDE for the RMT's available exposure.
 - Determine off-site RMT assignments based on off-site RMT available exposure.
 - Refer To Section G, "Radiation Monitoring Team Exposure Tracking Sheet," and record available exposure.
- ☐ 8. Direct off-site RMTs refer to and implement EPI-FAP15-003, "Radiation Monitoring Point Data Sheet."

1 ①

Section A: Initial Activation

- ☐ 9. Prior to dispatch, brief off-site RMTs on the following:
 - Plant conditions (current and projected)
 - Radiological conditions (current and projected)
 - Meteorological conditions (current and projected)
 - Survey locations
 - Low background areas
 - Access routes
 - Exposure limits and turnback values
 - Keeping personnel radiation exposures TEDE ALARA
 - Backup telephone number
 - Stay in radio contact with FTDC every 15 to 30 minutes and use telephones in areas where radio reception is poor.
- ☐ 10. Obtain and exchange the cell phone numbers among each of the field teams.
- ☐ 11. Obtain approval from MRDA for initial deployment of each off-site RMT.
- ☐ 12. Perform the following radio checks with off-site RMTs:
 - ON-OFF switch in the ON position.
 - UHF toggle switch located on the right side of the control panel in the NORM (down) position.
 - Channel 7 or 8 (off-site frequency) selected.
 - Speaker volume adjusted to desired level.
 - Channel is clear.
- ☐ 13. Dispatch off-site RMTs to monitoring points.
- 14. If overwater monitoring is required, perform the following:
 - ☐ Direct MOR to obtain boat and crew.
 - ☐ Verify boat crew has dosimetry and has been briefed on weather and plant conditions.

②

Section B: Recurring Actions

- ☐ 1. Provide guidance on meter usage, as necessary.
- ☐ 2. Record radiological data on EPI-FAP15-003, "Radiation Monitoring Point Data Sheet," and the Radiological Survey Data Boards, as appropriate.
- ☐ 3. Notify MRDA of significant changes in measured radiation levels or elevated air sample counts.
- ☐ 4. Monitor off-site RMT personnel radiation exposure.
- ☐ 5. If any off-site RMT member received 75% of the allowable exposure, notify the MRDA.
- ☐ 6. If dose rate measurement with window open is significantly higher than with window closed, direct off-site RMTs to take air samples.
- ☐ 7. Direct off-site RMTs to count iodine and particulate filters in a low background area.
- ☐ 8. Transfer information to MRDA or RAE.
- ☐ 9. Record off-site RMT radiological survey results on the Radiological Data Status Boards.
- ☐ 10. Update off-site RMTs on changes in plant conditions.
- ☐ 11. Notify the MRDA of unaccounted team members.
- ☐ 12. Refer To Section C, "General Guidance on RMT Survey Strategy," and obtain general guidance on off-site RMT survey strategy.
- ☐ 13. Refer To Section G, "Radiation Monitoring Team Exposure Tracking Sheet," and monitor off-site RMT personnel radiation exposure.
- ☐ 14. Forward completed copies and forms to the MRDA.
- ☐ 15. Report all sample results to MRDA.
- ☐ 16. Forward all used samples to MRDA.

I ①

Section C: General Guidance on RMT Survey Strategy

- ☐ 1. Determine an RMT Survey Strategy from the guidance below:
- For Stack ReleasesObtain data from the 374' met data
 - For Rooftop ReleasesObtain data from the 142' met data
 - For Ground ReleasesObtain data from the 33' met data
 - **DAYTIME - Wind Speed Less than 4 mph (2m/sec)**
Survey in downwind sector and 3 sectors to each side
 - **DAYTIME - Wind Speed Greater than 4 mph (2m/sec)**
Survey in downwind sector and 1 sector on each side
 - **NIGHTTIME - Wind Speed Less than 2 mph (1m/sec)**
Survey in downwind sector and 2 sectors on each side
 - **NIGHTTIME - Wind Speed Greater than 2 mph (1m/sec)**
Survey in downwind sector and 1 sector on each side
- ☐ 2. Consider initial RMT positioning as follows:
- Consistent with above, first team dispatched near the site boundary.
 - If an over water monitoring team is required, second team dispatched with the boat crew.
 - Consistent with above, remaining teams dispatched in the 1-5 mile range.

Section D: Environmental Sampling - Team Deployment

- ☐ 1. Direct Environmental Services or HP personnel obtain required sampling equipment.
- ☐ 2. Direct Environmental Services or HP personnel obtain the following as appropriate to the sampling strategy:
- Soil
 - Vegetables
 - Water
 - Particulate air
 - Goat milk
 - Cow milk
- ☐ 3. Assign HP Technician to the sample team, as necessary.

- ☐ 4. Direct sample team to Refer To EPI-FAP15-003, "Radiation Monitoring Point Data Sheet," and record sample location and radiological conditions.

Section E: Relocation Surveys - Off-Site RMT Deployment

- ☐ 1. After radioactive plume had passed, maintain control of off-site RMTs assisting the State DEP.
- ☐ 2. Direct RMTs to obtain a Relocation Sampling Team Kit.
- ☐ 3. Determine additional RMT equipment needs, as recommended by the MRDA depending on the expected scope of the surveys, considering the following:
 - Full protective clothing
 - State of Connecticut 50 mile grid map
 - Smears
 - Bags and labels for smears and smear results
 - Plastic bags to hold contaminated waste
- ☐ 4. Direct off-site RMTs obtain the following:
 - 100 cm² smear samples on smooth surfaces or fixed structures
 - General area dose rates at each smear location
- ☐ 5. Record all surveys in Section H, "Post Plume Contamination Survey Data."

Section F: Termination Actions

- ☐ 1. WHEN event is terminated, notify all off-site RMTs of event termination.
- ☐ 2. Perform radio net sign-off.
- ☐ 3. Record SERO termination in log book.

Prepared by: _____
Signature Print Date

Section G: Radiation Monitoring Team Exposure Tracking Sheet

Date: _____ Time: _____

| | Allowable Whole-Body* Exposure in mR | Time | Time | Time | Time | Time | Time | Exposure to TEDE ratio: |
|--------|---|--------------------|------|------|------|------|------|----------------------------|
| TEAM # | | PIC EXPOSURE IN mR | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |

| | | | | | | | | |
|--------|--|--------------------|--|--|--|--|--|--|
| TEAM # | | PIC EXPOSURE IN mR | | | | | | |
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|--------|--|--------------------|--|--|--|--|--|--|
| TEAM # | | PIC EXPOSURE IN mR | | | | | | |
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|--------|--|--------------------|--|--|--|--|--|--|
| TEAM # | | PIC EXPOSURE IN mR | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

* Verify with MRDA that allowable whole-body exposure limit will ensure TEDE does not exceed allowable limit.

Section H: Post Plume Contamination Survey Data

[illegible]

*e.g., mailbox, pavement, car, aluminum siding

**Assume $1 \text{ cpm}/100 \text{ cm}^2 = 10 \text{ dpm}/100 \text{ cm}^2$

Docket Nos. 50-245

50-336

50-423

B18535

Attachment 5

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

Emergency Procedures Implementing (EPI) Functional Administrative Procedure (FAP)

MP-26-EPI-FAP06-006, "EOF Protective Action Recommendations"

Major Revision 0, Minor Revision 1

8/22/01
Approval Date

8/23/01
Effective Date

Document Action Request

SPG#

011115 - 070804

Initiated By: Tom Gilbert Date 11/14/01 Department: EPSD Ext.: 3465

Document No.: MP-26-EPI-FAP06-006 Rev. No.: 000 Minor Rev.: 01

Title: EOF Protective Action Recommendations

Reason for Request/Action (attach commitments, CRs, ARs, OEs etc)

User Feedback

Continued ☐

Select one (See MP-05-DC-SAP01 sect 2.3 to determine type of change)

☐ Intent Change (SQR Independent, RCD, Env Screen Required)
Other reviews may be required. See MP-05-DC-FAP 01.1 alt 3

☐ Edit Corr.:

☒ Non-Intent Change

(Only SQR Independent Review and Env. screen Required)

Editorial Correction Approval

TPC Interim Approval

Plant Mgmt Staff Member - Approval

(1) Plant Mgmt Staff Member Print/Sign/Date

(2) SM/SRO/CFH Print/Sign/Date

Procedure Request/Feedback Disposition

Priority: ☒ Perform Now ☐ Perform Later

Activity: ☐ Revision ☒ Minor Revision ☐ Cleanup Rev ☐ Biennial Review ☐ Cancellation ☐ Supercedure

See DC-GDL01 for guidance

☐ TPC ☐ OTC ☐ Place in VOID

Reviews

continued ☐

Print

Sign

Date

SQR Qualified

✓ If
Comments

Yes No Dept.

| | | | | | | | |
|--|-------------|--------------------|----------|-------------------------------------|--------------------------|------|--|
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| <input type="checkbox"/> | | | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| <input type="checkbox"/> | | | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| SO.54(g) Licensing <input checked="" type="checkbox"/> | Tom Gilbert | <i>Tom Gilbert</i> | 11/14/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EPSD | |
| Environmental Screen <input checked="" type="checkbox"/> | Tom Gilbert | <i>Tom Gilbert</i> | 11/14/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EPSD | |
| RCD <input checked="" type="checkbox"/> | Tom Gilbert | <i>Tom Gilbert</i> | 11/14/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EPSD | |
| Independent <input checked="" type="checkbox"/> | Tom Rigney | <i>Tom Rigney</i> | 11/15/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EPSD | |

An NRRL Update Required ☐ YES

1. ☒ SQR Program Final Review and Approval

Approval ☒ Disapproval ☐

Tom Rigney / 11-15-01
SQR Qualified Independent Reviewer / Date

Paul G. Scarioti
Process Owner

/ Responsible Individual

11/15/01

Approval Date

2. ☐ SORC ☐ RI/PO Final Review and Approval

Process Owner / Responsible Individual Sign

Meeting No.: _____

SORC Approval Signature

Approval Date

Effective Date: 11/21/01

11/15/01
Approval Date

11/21/01
Effective Date

EOF Protective Action Recommendations

NOTE

The State must be notified within 15 minutes after a decision is made to issue or update PARs. Prior to State EOC activation, PARs are verbally transmitted to the 24 hour DEP Dispatcher in Hartford.

After State EOC activation, PARs are transmitted to DEP representatives at the State EOC directly over a hotline on the DSEO's desk.

Section A: Evaluating Protective Action Recommendations (PARs)

- ☐ 1. Refer To Section B, "EOF PAR Process Flowchart," and determine the appropriate PAR.
 - a) Record the current wind direction in degrees (**from**): _____
 - b) Check the appropriate row on the PAR table.
- 2. IF the State EOC is activated, complete Section C, "State DEP PAR Transmittal Form," as follows:
 - ☐ a) Using the information from the Section B, "EOF PAR Process Flowchart," circle 'E' for communities that will be evacuated and 'S' for communities that will be sheltered (provide any other actions as appropriate).
 - ☐ b) Check one or more of the blocks in the 'Technical Bases' section as applicable (provide any comments as appropriate).
 - ☐ c) Verify DSEO review and approval by completion of the 'Authorization' section.
 - ☐ d) Record the date and time the DSEO provides the PAR notification to the State via the DEP hotline.

Date: _____ Time: _____
 - ☐ e) Fax the State DEP PAR Transmittal Form to the State EOC and record the date and time completed.

Date: _____ Time: _____
 - ☐ f) Record the date and time the DSEO informs the Executive Spokesperson in the JMC of the PARs.

Date: _____ Time: _____

Section A: Evaluating Protective Action Recommendations (PARs)

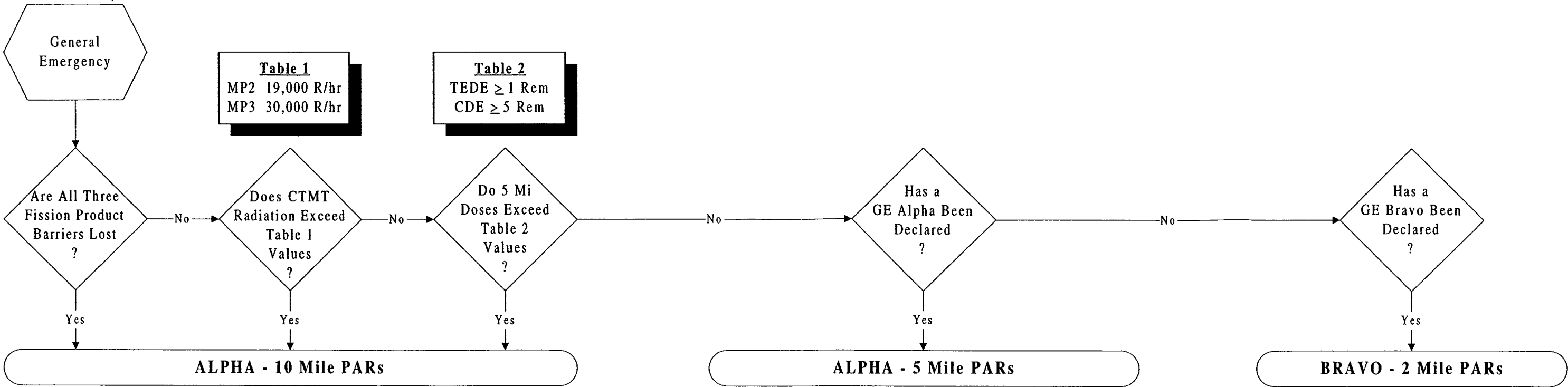
3. IF the State EOC is **not** activated, ensure the DSEO verbally transmits PARs to the DEP Dispatcher in Hartford as follows:

- ☐ a) Contact the DEP Dispatcher in Hartford (number is in EPUG-08B).
- ☐ b) Identify yourself and read the EVACUATE and SHELTER recommendations from the applicable Section B table row.
- ☐ c) Request the dispatcher inform the DEP Duty Officer that a PAR has been issued.
- ☐ d) Log the date and time of notification.

NOTE

The DEP Duty Officer will call back to verify the PAR and obtain additional information relative to public safety.

Section B: EOF PAR Process Flowchart



1. EVACUATE THE FOLLOWING ZONES

| ✓ | Wind | Zones to Evacuate |
|---|-----------|---|
| | 030°-051° | A and B |
| | 052°-088° | A and B and Old Lyme in D |
| | 089°-093° | A and B and D |
| | 094°-138° | A and B and D and East Lyme in C |
| | 139°-154° | A and B and C and Lyme in D |
| | 155°-177° | A and B and C |
| | 178°-186° | A and B and Montville and Waterford in C |
| | 187°-193° | A and B and Montville and Waterford in C and Ledyard in E |
| | 194°-218° | A and B and E and Montville and Waterford in C |
| | 219°-229° | A and B and E and Waterford in C |
| | 230°-244° | A and B and E |
| | 245°-257° | A and B and Groton City & Town in E |
| | 258°-286° | A and B and F and Groton City & Town in E |
| | 287°-316° | A and B and F |
| | 317°-339° | A and B |
| | 340°-029° | A and B and Plum Island |

2. SHELTER ALL OTHER ZONES

1. EVACUATE THE FOLLOWING ZONES

| ✓ | Wind | Zones to Evacuate |
|---|-----------|-------------------------------------|
| | 083°-139° | A and East Lyme in B |
| | 140°-167° | A and East Lyme and Waterford in B |
| | 168°-189° | A and Waterford in B |
| | 190°-243° | A and Waterford and New London in B |
| | 244°-290° | A and New London in B |
| | 291°-082° | A |

2. SHELTER ALL OTHER ZONES (Zones 'A' and 'B' only)

1. EVACUATE ZONE 'A'

Section C: State DEP PAR Transmittal Form

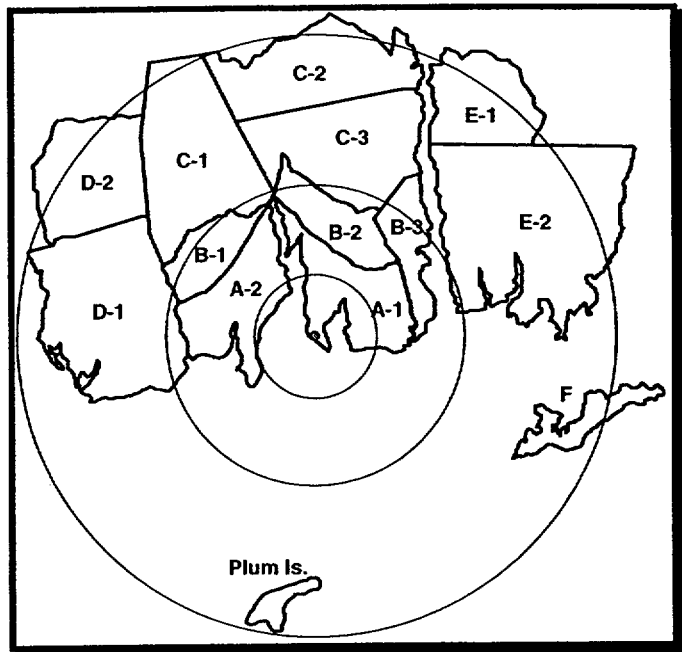
Millstone Station Protective Action Recommendations

Circle 'E' for Evacuate or 'S' for Shelter

| Zone | Community | PAR |
|----------|-----------------|-----|
| (0-2 mi) | Waterford (A-1) | E S |
| A | East Lyme (A-2) | E S |

| | | |
|----------|------------------|-----|
| (2-5 mi) | East Lyme (B-1) | E S |
| B | Waterford (B-2) | E S |
| | New London (B-3) | E S |

| | | |
|-----------|--------------------------|-----|
| (5-10 mi) | East Lyme (C-1) | E S |
| C | Montville (C-2) | E S |
| | Waterford (C-3) | E S |
| D | Old Lyme (D-1) | E S |
| | Lyme (D-2) | E S |
| E | Ledyard (E-1) | E S |
| | Groton City & Town (E-2) | E S |
| F | Fishers Island | E S |
| N/A | Plum Island | E S |



Other: _____

Technical Basis (check at least one)

- ☐ GE-Alpha
 ☐ Plant Conditions
 ☐ Wind Shift
☐ GE-Bravo
 ☐ Projected Dose
 ☐ Other
☐ Measured Dose

Comments: _____

Authorization

Approved By: _____ Date: _____ Time: _____

DSEO Signature

Docket Nos. 50-245

50-336

50-423

B18535

Attachment 6

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

Emergency Procedures Implementing (EPI) Functional Administrative Procedure (FAP)

MP-26-EPI-FAP08, "Evacuation and Assembly"

Major Revision 0, Minor Revision 3

08/22/01
Approval Date



08/23/01
Effective Date

Document Action Request

SPG # 011114-102818

Initiated By: Patty Luckey Date: 11/14/2001 Department EP Ext 5474
Document No: MP-26-EPI-FAP08 Rev. No: 000 Minor Rev No. 03
Title: **Evacuation and Assembly**

Reason for Request (attach commitments, CR's, AR's, etc)

Select One

See MP-05-DC-SAP01 sect 2.3 to determine type of change

Continued

☐ Intent Change (SQR Independent, RCD, ENV Screen Required)
(Other reviews may be required. See MP-05-DC-FAP01.1 Att 3)

☐ Edit Corr

☒ Non-Intent Change

(Only SQR Independent Review and Env. screen Required)

Editorial Correction Approval

Plant Mngt Staff Member - Approval / Date

TPC Interim Approval

(1) Plant Mngt Staff Member Print/Sign/Date

(2) SM/SRO/CFH on Unit Print/Sign/Date

Procedure Request/Feedback Disposition

Priority: ☒ Perform Now ☐ Perform Later - See Comments

Activity: ☐ Revision ☒ Minor Revision ☐ Cleanup Rev ☐ Biennial Review ☐ Cancellation ☐ Supercedure
See DC-GDI01 for guidance

☐ TPC ☐ OTC ☐ Place in Void

| Reviews continued <input type="checkbox"/> | Print | Sign | Date | SQR Qualified | | | if Comments |
|---|------------|------------|----------|-------------------------------------|--------------------------|-------|--------------------------|
| | | | | Yes | No | Dept. | |
| <input type="checkbox"/> | | | | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> |
| <input type="checkbox"/> | | | | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> |
| <input type="checkbox"/> | | | | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> |
| 50.54g <input checked="" type="checkbox"/> | TOM RIGNEY | Tom Rigney | 11/14/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EP&D | <input type="checkbox"/> |
| Env Screen <input checked="" type="checkbox"/> | TOM RIGNEY | Tom Rigney | 11/14/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EP&D | <input type="checkbox"/> |
| Licensing Basis <input type="checkbox"/> | | | | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> |
| Independent <input checked="" type="checkbox"/> | TOM RIGNEY | Tom Rigney | 11/14/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EP&D | <input type="checkbox"/> |

An NRRL update was required? ☐ Yes

1. ☒ SQR Program Final Review and Approval

Approval ☒ Disapproval ☐

Tom Rigney 11/14/01
SQR Qualified Independent Reviewer / Date

Catol A. Fuchs, Paul Blum
Department Head/Responsible Individual

11/14/01
Approval Date

2. ☐ SORC ☒ RI/DH Final Review and Approval

N/A

Department Head/Responsible Individual Sign

Meeting No. _____

SORC Approval Signature

Approval Date

Effective Date 11/15/01

MP-05-DC-SAP01-001

Rev. 003 mr 001

Page 1 of 1

**Functional
Administrative
Procedure**



Evacuation and Assembly

MP-26-EPI-FAP08

Rev. 000-03

Approval Date: 11/14/01

Effective Date: 11/15/01



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| 4. <u>ATTACHMENTS AND FORMS</u> | |
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1. **PURPOSE**

1.1 **Objective**

This procedure provides guidance for actions to protect and account for on-site personnel during an emergency.

1.2 **Applicability**

Any Unit 2 or 3 Shift Manager or the ADTS may initiate this procedure when warranted by actual or projected environmental, security, radiological, or operational conditions.

Activation of the Station Emergency Response Organization (SERO) is not required to use this procedure.

The affected unit will be the lead unit for implementation. Unit 3 is normally the lead unit for non-unit specific events.

1.3 **Supporting Documents**

MP-26-EPI-FAP01-001, "CR-DSEO Checklist"

MP-26-EPI-FAP02-001, "ADTS Checklist"

MP-26-EPI-FAP04-001, "DSEO Checklist"

MP-26-EPI-FAP15, "Common Forms"

EPUG-08B, "Millstone Emergency Preparedness Resource Book"

C OP 200.6, "Storms and other Hazardous Phenomena"

1.4 Discussion

This procedure provides guidance for on-site protective actions, as well as specific steps applicable for a wide range of events which may include one or more of the following:

- Radiological release
- Fire, steam, or explosion hazards
- Chemical release, including truck or rail accident
- Storm or flood related hazards

Protective responses to a hazard may include one or more of the following:

- Development of a coordinated plan of action
- Pre-deployment of Security or Health Physics personnel or both
- Early dismissal of selected (non-essential) personnel
- Local area evacuations
- Sheltering personnel
- Accounting for personnel
- Evacuating the protected area or the site

1.4.1 General

Selecting protective actions and coordinating the resources needed to implement those actions is best coordinated through the input and assistance from several groups. Security provides the logistics to facilitate any protective actions involving the movement of personnel; unaffected units need to be informed of protective actions being implemented for operational considerations; and HP and/or Chemistry support the identification of hazardous areas in radiological events.

The time required to complete actions is an important component of on-site protective actions. On-site protection action decisions should consider the following, as appropriate:

- Radiological exposure
- Transportation accidents
- Injury
- Safety and control of plant operations
- Evaluation of constraining conditions (i.e., radiological, security, or chemical threats)
- Consequences of premature or delayed actions

Any of the following protective actions are predicated on the assumption that the conditions support the actions. Since all possible scenario combinations can not be predicted or proceduralized, timing and implementation of any protective action will be controlled by the SM or ADTS as appropriate for the specific situation at the time of the event.

1.4.2 Precautionary Dismissal of Non-Essential Personnel

A precautionary dismissal of non-SERO personnel occurs at the Alert level declaration and can be initiated from the Control Room or TSC. The ADTS or CR-DSEO can elect NOT to conduct the precautionary dismissal if the nature of the event warrants such judgement.

A precautionary dismissal directs all non-SERO Millstone employees, contractors, and visitors to leave the site.

1.4.3 Evacuation

A site evacuation is automatically initiated at the Site Area or General Emergency classification levels. Site evacuation may be called for at the Alert level classification however, conditions which require a site evacuation are inherently defined as Site Area Emergency events and should be classified as such. Evacuation can be accomplished in about 30 minutes.

Evacuation can involve the movement of large numbers of personnel outside of the Protected Area by keying out of the turnstiles at the NAP or SAP. Evacuation may warrant station egress control by Security. Following discussion with the Connecticut State Police and the Waterford Police Departments, Security will provide specific instructions to personnel in the parking areas as requested by off-site authorities. Following dismissal, station personnel may be directed to a specific location for monitoring and decontamination. Other situations which involve the evacuation of personnel from occupied localized areas onsite must be controlled on a case by case basis.

1.4.4 Local Area Evacuation

Local area evacuation is an evacuation of a building, area, unit, or multi-units for the immediate protection of station personnel from a hazard within a limited exposure potential. A local area evacuation needs to be initiated anytime personnel in an occupied area may be at risk from an environmental hazard. It is a standard response the actions will be taken by the control room personnel immediately upon acknowledging the hazard.

1.4.5 Sheltering

Sheltering is a short-term action taken in specific situations where there is insufficient time available to conduct an evacuation, where the hazard is short lived, or when would threaten the safety of the evacuating population. If a release or hazard is projected to occur within 30–60 minutes, sheltering in place with subsequent staggered movement of personnel may be considered.

1.4.6 Assembly

Assembly occurs at the Alert emergency classification level. Non-essential personnel are not involved in assembly activities. The Assembly Area is used to coordinate the need for any immediate additional resources and to establish a SERO shift relief roster and schedule before personnel are dismissed from the area.

1.4.7 Accountability

Accountability is automatically conducted at a Site Area or General Emergency. Accountability may be conducted at the Alert level following SERO activation and the completion of the precautionary dismissal, at the discretion of the ADTS.

Accountability is the process of verifying the location of personnel who are inside the Protected Area. That is, any unaccounted for person that has keyed into the Protected Area (NAP/SAP) and is not keyed into a vital area, the TSC/OSC, or the OSC Assembly Area (cafeteria) will be identified as missing. Accountability is required to be completed within 45 minutes of its initiation (the names of any missing persons identified to the ADTS and announced over the PA).

Accountability targets from the time of the announcement are as follows:

- Personnel have keyed in or notified CAS within 15 minutes.
- Unaccounted personnel have been identified within 30 minutes.
- Names of unaccounted personnel have been announced within 45 minutes.
- Personnel accountability inside the protected area is continuously maintained for the duration of the event.

1.4.8 Definitions and abbreviation are contained in Attachment 1. Responsibilities are contained in Attachment 2.

2. INSTRUCTIONS

2.1 Precautionary Dismissal

2.1.1 Assess the nature, probable cause, and duration of the hazard.

- a. IF event is security related and a security assessment has *not* been completed, delay the dismissal until the assessment is completed by Security.
- b. IF event is *not* security related OR a security assessment had been completed, provide the SSS/MOS with all available information.
- c. Consider the status of SERO activation prior to the dismissal of personnel.

2.1.2 Contact SSS/MOS and MRCA to discuss the following:

- Additional personnel assigned to the NAP and SAP to assist in the egress of large numbers of personnel as necessary.
- Estimated time to pre-position personnel to support the dismissal.
- Whether any local area or site access restrictions exist.
- Need to sweep areas outside the protected area.

2.1.3 Notify the following of planned actions and announcements:

- a. The DSEO and the ADTS if the SERO in the process of activation.
- b. The unaffected unit control rooms.

2.1.4 Perform the following:

- a. Activate the outside speakers.
- b. Select station public address system (priority page or 810).
- c. Announce the following:

Attention all personnel. Attention all personnel. All non-SERO employees, contractors, visitors, and other non-essential personnel leave the site at this time.

- d. Repeat the announcement.
- e. Log the time the announcement was completed.

2.1.5 IF public address system is inoperable, consider using the following as alternatives for personnel notification:

- Security sweeps
- HP personnel
- O&M radios

2.1.6 WHEN the precautionary dismissal has been completed, DIRECT SSS/MOS to perform accountability.



2.2 Evacuation

NOTE

Evacuation is automatically conducted at a Site Area or General Emergency unless constraints exist. Other situations which involve the evacuation of personnel from occupied localized areas onsite must be controlled on a case by case basis.

①

2.2.1 Assess the nature, probable cause, and duration of the hazard.

CAUTION

Movement of personnel should consider potential on-site and off-site constraints.

- a. IF the evacuation is constrained (i.e. security related, weather related, fire or toxic gases) consider delaying evacuation until an assessment has been completed.

2.2.2 Direct the SSS/MOS to perform the following:

- a. Inform Waterford Dispatch of time and purpose of any planned on-site siren activation.
- b. Establish and maintain traffic control with the Waterford and Connecticut State Police departments.

2.2.3 Perform the announcement over the public address system as follows:

- a. Activate the outside speakers.
- b. Sound the Evacuation Alarm for 30 seconds.
- c. Select station public address system (priority page or 810).
- d. Announce the following:

Attention all personnel, Attention all personnel, All non-SERO employees, contractors, visitors, and other non-essential personnel evacuate the site at this time. Security initiate accountability.

- e. Log the time of the announcement.

2.2.4 IF public address system is inoperable, consider using the following as alternatives for personnel notification:

- Security sweeps using bull horns

- HP personnel
- O&M radios

2.2.5 Direct the SSS/MOS to perform the following:

- a. Coordinate security patrols to sweep the open areas, outdoors, and buildings outside the Protected Area to ensure the message has been received.
- b. Verify personnel are moving as instructed and report back on the status.
- c. Provide accountability results within 30 minutes if not previously conducted.

2.3 Accountability

- 2.3.1 Upon direction of the ADTS or declaration of a Site Area or General Emergency, direct CAS to implement accountability procedures.
- 2.3.2 Within 15 to 25 minutes after station announcement, ensure CAS has run an area summary report or similar printout to account for personnel in the protected area.
- 2.3.3 Within 30 minutes of the announcement to conduct accountability, perform the following:
- a. Obtain the missing persons report.
 - b. Determine the approximate number of personnel who are unaccounted for by badge or telephone call.
 - c. Notify the ADTS of the results.
- 2.3.4 IF personnel are unaccounted for in the Protected Area, provide the ADTS with the following:
- Name of missing individual
 - Last known location of missing individual
 - Special access requirements for intended search and rescue route

NOTE

Announcement by name in 45 minutes fulfills the initial accountability commitment.

- 2.3.5 Announce the names of unaccounted personnel over station PA system.
- 2.3.6 Coordinate with the MOSC to initiate the dispatch of Search and Rescue Teams to locate any unaccounted for personnel.
- 2.3.7 Maintain continuous accountability of personnel within the protected area until directed otherwise by the ADTS.

2.4 Assembly

2.4.1 Dispatch the ERC to the Simulator Foyer Assembly Area.

2.4.2 Direct the ERC (in the Simulator Foyer) and the MOSC (in the OSC Assembly Area) to establish a roster of personnel which contains the following information:

- a. Name
- b. SERO position
- c. Home or point of contact number

2.4.3 IF any minimum staffing positions are not filled, perform the following:

- a. Obtain qualified personnel from the OSC Assembly Area or Simulator Foyer Assembly Area.
- b. IF qualified personnel are not available from the Assembly Areas, Refer To EPUG 08B, "Millstone Emergency Plan Resource Book," and notify an individual for each unstaffed position.
 - Refer To EPI-FAP15-011, "Fitness for Duty Questionnaire," and determine if notified personnel are fit for duty.
 - IF notified personnel are determined fit for duty, request personnel to report to the EOF.
 - Upon arrival, coordinate access for the responders into the Protected Area with Security as necessary.

2.4.4 Determine if any of the emergency facilities require the assistance of additional personnel and coordinate their movement as necessary.

2.4.5 IF any augmented positions are not filled, perform the following:

- a. Obtain qualified personnel from the OSC Assembly Area or Simulator Foyer Assembly Area.
- b. IF qualified personnel are not available from the Assembly Areas, Refer To EPUG 08B, "Millstone Emergency Plan Resource Book," and notify an individual for each unstaffed position.
 - Refer To EPI-FAP15-011, "Fitness for Duty Questionnaire," and determine if notified personnel are fit for duty.
 - IF notified personnel are determined fit for duty, request personnel to report to the EOF.

- Upon arrival, coordinate access for the responders into the Protected Area with Security as necessary.
- 2.4.6 Begin a first relief roster and schedule for the Emergency Response Facilities from the assembled personnel.
- 2.4.7 Release personnel from the Assembly Areas as soon as possible as follows:
- a. Ensure personnel released from the Assembly Areas are directed to Stand-by their point of contact for further information and instructions.
 - b. Coordinate the release of personnel with the MOS (Security is in contact with local law enforcement for egress and access logistics).
 - c. Inform the DSEO when all personnel have been released from the Assembly Areas.
- 2.4.8 Discuss establishing a staging area for personnel and resources outside the 10 mile EPZ with DSEO as conditions warrant.

3. **SUMMARY OF CHANGES**

3.1 **Revision 000-03**

3.1.1 Deleted sentences directing SERO personnel to the Simulator Foyer in first paragraph under steps 1.4.3 and 1.4.6.

3.2 **Revision 000-02**

3.2.1 Changed the word "director" to "direct" in step 2.1.6.

3.3 **Revision 000-01**

3.3.1 Added the words "unless constraints exist" to clarify the evacuation.

3.4 **Revision 000**

3.4.1 Original issue

Attachment 1

Definitions and Abbreviations

(Sheet 1 of 1)

Definitions

Accountability - Accountability is used to determine if personnel are missing. A census of personnel in the protected area completed within 45 minutes.

Affected Area - Location requiring protective response to include level, building, unit, open area, or site.

Essential Personnel - Personnel directly engaged in actions required to safely operate, monitor plant functions, or mitigate accident events. Security, HP, and other personnel directed by managers. This includes emergency plan on-call and subject to call, on-shift security, HP and other personnel as directed.

Site Evacuation - Leaving the protected area and existing the owner controlled property.

Owner Controlled Area - All station property excluding the protected area.

Protected Area - The area inside the security fence where access is controlled by security.

Protected Area Evacuation - Leaving the protected area to a designated assembly area.

Sheltering - Staying inside a structure with doors, windows, and exterior ventilation closed.

Abbreviations

DSEO - Director of Station Emergency Operations

SSS - Security Shift Supervisor

MOS - Manager of Security

SM - Shift Manager

MRCA - Manager Radiological Consequence Assessment

NAP - North Access Point

SAP - South Access Point

Attachment 2 Responsibilities

(Sheet 1 of 1)

1. The Security Shift Supervisor or is responsible for coordinating accountability, site access control, traffic control, and assembly areas.
2. The HP Manager or MRCA is responsible for providing radiological assessment and guidance concerning protective recommendations.
3. The Manager of Resources is responsible for coordinating the control and release of personnel at the Assembly Areas.
4. The following managers and staff may be designated by the Shift Manager or DSEO to support implementation of this procedure:
 - MRCA (chemical release)
 - Shift Technician or alternate designee (announcements)
 - HP Technicians (decontamination at access and assembly points)
 - Security (accountability, crowd control)

Attachment 3
Examples of On-Site Protective Actions and Announcements
(Sheet 1 of 2)

Example 1: Approaching Hurricane (station-wide, late onset, long duration)

- Objectives:
- a) Early release of all but essential personnel
 - b) Prepare essential personnel for long-term staffing during storm

Sample Announcement

ATTENTION ALL PERSONNEL! ATTENTION ALL PERSONNEL! Hurricane conditions are projected to reach the site within 24 hours. Personnel not on call or involved in plant safety, security, or operations may leave work at 2 pm today and are excused from regular work tomorrow. All on-call SERO and operations personnel: plan to report to your assigned locations by 10 am tomorrow for the duration of the storm. Additional information will be provided.

- Follow-up:
- a) As storm approaches, warn all personnel to remain indoors.
 - b) Announce restoration of normal conditions when appropriate.

Example 2: Radiological or Chemical Release (onset <30 minutes, duration <30 minutes)

- Objectives:
- a) Avoid affected areas
 - b) Prompt sheltering (no time to complete assembly)

Sample Announcement

ATTENTION ALL PERSONNEL! ATTENTION ALL PERSONNEL! A brief radiological release from the main stack is projected to start in 15 minutes. ALL PERSONNEL! Avoid the stack and the unit ____ turbine building. Take shelter indoors; secure windows, doors and unnecessary ventilation. STAND BY FOR ADDITIONAL INSTRUCTIONS.

- Follow-up:
- a) Ensure Environmental Laboratory, SGRP, other buildings outside fence are notified (security walk through or phone call)
 - b) Announce restoration of normal conditions when appropriate.

Attachment 3

Examples of On-Site Protective Actions and Announcements

(Sheet 2 of 2)

Example 3: Radiological Release (onset >30 minutes, duration >30 minutes)

- Objectives:
- a) Accountability within 45 minutes
 - b) Retention of essential personnel

Precondition: SERO activation already announced (Alert Charlie-One or higher declared)

Sample Announcement

ATTENTION ALL PERSONNEL! ATTENTION ALL PERSONNEL! A radiological release may occur in (x) hours. HP personnel assemble in the (cafeteria/NAP/SAP). Inside the protected area, evacuate now. All personnel remaining in the protected area - key in now.

- Follow-up:
- a) Ensure Security uses bullhorn to retain HP, SERO, other crafts or trades at assembly areas as directed by MOR.
 - b) Ensure off-site notifications are performed.
 - c) Coordinate release of personnel from assembly points (NAP, SAP).

Example 4. Evacuation of Site (radiological release in progress, conditions degrading)

- Objectives:
- a) Emergency event declared
 - b) MRCA recommends evacuation as warranted (ALARA conditions).
 - c) Off-site notifications are performed
 - d) Security notified to allow evacuation

Sample Announcement

ATTENTION ALL PERSONNEL! ATTENTION ALL PERSONNEL! Plant conditions are degrading. A site evacuation has been ordered. Personnel at NAP will be released, in groups, by security. Personnel at SAP, stand by. Avoid all areas east and south of the main stack. All personnel remaining in the protected area - key in now.

- Follow-up:
- a) Provide follow-up message and transportation for personnel at SAP who can not reach cars without passing release point (in this case, stack).

Docket Nos. 50-245
50-336
50-423
B18535

Attachment 7

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

Emergency Procedures Implementing (EPI) Functional Administrative Procedure (FAP)

MP-26-EPI-FAP15-006, "OFIS Instruction"

Major Revision 0, Minor Revision 2

08/22/01
Approval Date



08/23/01
Effective Date

Document Action Request

SPG # 011025-140539

Initiated By: Thomas GILBERT Date: 10/25/2001 Department EP Ext 3465
Document No: MP-26-EPI-FAP15-006 Rev. No: 000 Minor Rev No. 02
Title: **OFIS Instructions**

Reason for Request (attach commitments, CR's, AR's, etc)

Delete instructions for accessing Mainframe.
Enhance instructions for accessing from State EOC.
AR 01005048-09

Select One

Continued

☐ Intent Change (SQR Independent, RCD, ENV Screen Required)
(Other reviews may be required. See MP-05-DC-FAP 01.1 Att 3)

☐ Edit Corr

☒ Non-Intent Change

(Only SQR Independent Review and Env. screen Required)

Editorial Correction Approval

Plant Mngt Staff Member - Approval / Date

TPC Interim Approval

(1) Plant Mngt Staff Member Print/Sign/Date

(2) SM/SRO/CFH on Unit Print/Sign/Date

Procedure Request/Feedback Disposition

Priority: ☒ Perform Now ☐ Perform Later - See Comments

Activity: ☐ Revision ☒ Minor Revision ☐ Cleanup Rev ☐ Biennial Review ☐ Cancellation ☐ Supercedure
See DC-GDL01 for guidance
☐ TPC ☐ OTC ☐ Place in Void

| Reviews continued <input type="checkbox"/> | Print | Sign | Date | SQR Qualified | | | If Comments |
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| X-discipline <input checked="" type="checkbox"/> | Tom Bowlen | Thomas F Bowlen | 11/24/01 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | IT | <input type="checkbox"/> |
| Env Screen <input checked="" type="checkbox"/> | Tom Gilbert | Tom Gilbert | 10/25/01 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | EPSSD | <input type="checkbox"/> |
| 50.54Q Licensing Basis <input checked="" type="checkbox"/> | Tom Gilbert | Tom Gilbert | 10/25/01 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | EPSSD | <input type="checkbox"/> |
| Independent <input checked="" type="checkbox"/> | Tom Riquery | Tom Riquery | 10/31/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EPSSD | <input type="checkbox"/> |

An NRRL update was required? ☐ Yes

1. ☒ SQR Program Final Review and Approval

Approval ☒ Disapproval ☐

Tom Riquery 11/30/01
SQR Qualified Independent Reviewer / Date

Department Head/Responsible Individual

Approval Date

2. ☐ SORC ☒ RI/DH Final Review and Approval

N/A

Department Head/Responsible Individual Sign

Meeting No.

SORC Approval Signature

Approval Date

Effective Date

11/8/01

MP-05-DC-SAP01-001

Rev. 003 mr 001

Page 1 of 1

8/22/01
Approval Date

8/23/01
Effective Date

Document Action Request

SPG# 011 004-094221

Initiated By: Tom Gilbert Date 12/3/01 Department: EPSD Ext.: 3465

Document No.: MP-26-EPI-FAP15-006 Rev. No.: 000 Minor Rev.: 03 *12/4/01*

Title: OFIS Instruction

Reason for Request/Action (attach commitments, CRs, ARs, OEs etc)

Correct rev bar number on form. Change number from 1 to 2.

Continued ☐

Select one (See MP-05-DC-SAP01 sect 2.3 to determine type of change)

☐ Intent Change (SQR Independent, RCD, Env Screen Required)
Other reviews may be required. See MP-05-DC-FAP 01.1 att 3

☒ Edit Corr.:

☐ Non-Intent Change
(Only SQR Independent Review and Env. screen Required)

Editorial Correction Approval

Patricia Luby 12/3/01
Plant Mgmt Staff Member - Approval

TPC Interim Approval

(1) Plant Mgmt Staff Member Print/Sign/Date

(2) SM/SRO/CFH Print/Sign/Date

Procedure Request/Feedback Disposition

Priority: ☐ Perform Now ☐ Perform Later

Activity: ☐ Revision ☐ Minor Revision ☐ Cleanup Rev ☐ Biennial Review ☐ Cancellation ☐ Supercedure

See DC-GDL01 for guidance

☐ TPC ☐ OTC ☐ Place in VOID

| Reviews continued <input type="checkbox"/> | Print | Sign | Date | SQR Qualified | | | ✓ If Comments |
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| Independent <input type="checkbox"/> | | | | <input type="checkbox"/> | <input type="checkbox"/> | | |

An NRRL Update Required ☐ YES

1. ☐ SQR Program Final Review and Approval

Approval ☐ Disapproval ☐

SQR Qualified Independent Reviewer / Date

Process Owner
/ Responsible Individual

Approval Date

2. ☐ SORC ☐ RI/PO Final Review and Approval

Process Owner / Responsible Individual Sign
Meeting No.: _____

SORC Approval Signature

Approval Date

Effective Date:

11/6/01
Approval Date

11/8/01
Effective Date

OFIS Instructions

Section A: Equipment Start Up Steps

☐ Access R*Time OFIS from Personal Computer (Preferred Method)

This is the preferred connection during Station Emergency. Allows user access to both Unit 2 and Unit 3 OFIS information.

1. Open the "OFIS" icon.
2. Select "Connect to Millstone LAN" from the "Millstone OFIS Connect Menu."
3. Select "MP2 OFIS" or "MP3 OFIS" from the "Millstone Station PPC Top Menu."

☐ Access R*Time OFIS from Personal Computer (Alternate Method)

This method provides connection to Unit 2(3) PPC during Station Emergency. Use if Public LAN fails.

1. Open the "OFIS" icon.
2. Select "Connect to Unit 2 PPC" or "Connect to Unit 3 PPC" from the "Millstone OFIS Connect Menu."
3. Select "OFIS" from the "UNIT 2(3) PPC Top Menu."

☐ Access R*Time OFIS from Personal Computer (Simulator Drills)

This method provides connection to Unit 2(3) simulator during E-Plan drills.

1. Open the "OFIS" icon.
2. Select "Unit 2 Drill" or "Unit 3 Drill" from the "Millstone OFIS Connect Menu."
3. Select "OFIS" from the "UNIT 2(3) PPC Top Menu."

☐ Access R*Time OFIS from Personal Computer State EOC

In addition to selecting the appropriate method to access OFIS, a password is required at the State EOC.

1. Open the "OFIS" icon.
2. Select "Connect to Millstone LAN" from the "Millstone OFIS Connect Menu" or other desired connection.
3. Select "Dial" on the Dial-Up Networking box.

Note

You will have three (3) attempts to log in correctly. After three unsuccessful attempts, the message box "The script has halted" will appear.

4. When the "After Dial Terminal" screen appears, at the "Enter Passcode:" prompt, first enter "dragon" (without the quotes) followed by the token code number displayed on the SecurID card (with no blank spaces or extra characters between them) within 30 seconds of the prompt, and then press enter.
5. If the attempt to log in has been unsuccessful, wait until a new token code number appears on the SecurID card and repeat step 4.
6. If log in fails, as indicated by "The script has halted" message, then restart process from step 2.
7. When successfully logged in, select "MP2 OFIS" or "MP3 OFIS" from the "Millstone Station PPC Top Menu."

Docket Nos. 50-245
50-336
50-423
B18535

Attachment 8

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

Emergency Preparedness Administrative Procedure
(EPAP) 1.15, "Management Program for Maintaining Emergency Preparedness"
Major Revision 7, Minor Revision 2

8/22/01
Approval Date

8/23/01
Effective Date

Document Action Request

SPG#

011105-102247

Initiated By: K. Burgess Date 11/5/01 Department: EPSD Ext.: 2490

Document No.: EPAP 1.15 Rev. No.: 007 Minor Rev.: 02

Title: Management Program for Maintaining Emergency Preparedness

Reason for Request/Action (attach commitments, CRs, ARs, OEs etc)

AR 01006245 and AR 01005546

Continued ☐

Select one (See MP-05-DC-SAP01 sect 2.3 to determine type of change)

☒ Intent Change (SOR Independent, RCD, Env Screen Required)
Other reviews may be required. See MP-05-DC-FAP 01.1 att 3

☐ Edit Corr.:

☐ Non-Intent Change

(Only SQR Independent Review and Env. screen Required)

Editorial Correction Approval

TPC Interim Approval

Plant Mgmt Staff Member - Approval

(1) Plant Mgmt Staff Member Print/Sign/Date

(2) SM/SRO/CFH Print/Sign/Date

Procedure Request/Feedback Disposition

Priority: ☒ Perform Now ☐ Perform Later

Activity: ☐ Revision ☒ Minor Revision ☐ Cleanup Rev ☐ Biennial Review ☐ Cancellation ☐ Supercedure
See DC-GDL01 for guidance

☐ TPC ☐ OTC ☐ Place in VOID

| Reviews continued <input type="checkbox"/> | Print | Sign | Date | SQR Qualified | | | ✓ If Comments |
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| RCD <input checked="" type="checkbox"/> | K Burgess | K Burgess | 11/5/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EPSD | |
| Environmental Screen <input checked="" type="checkbox"/> | K Burgess | K Burgess | 11/5/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EPSD | |
| Licensing Basis <input type="checkbox"/> | | | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Independent <input checked="" type="checkbox"/> | T Rigney | T. Rigney | 11/5/01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EPSD | ✓ |

An NRRL Update Required ☐ YES

1. ☒ SQR Program Final Review and Approval

Approval ☒ Disapproval ☐

T. Rigney 11-5-01
SQR Qualified Independent Reviewer / Date
Paul Decker 11/12/01
Process Owner
Responsible Individual
11/12/01
Approval Date

2. ☐ SORC ☒ RIPO Final Review and Approval

Process Owner / Responsible Individual Sign
Meeting No.: _____

SORC Approval Signature

Approval Date

Effective Date: 11/15/01

MILLSTONE NUCLEAR POWER STATION
EMERGENCY PREPAREDNESS ADMINISTRATIVE
PROCEDURE

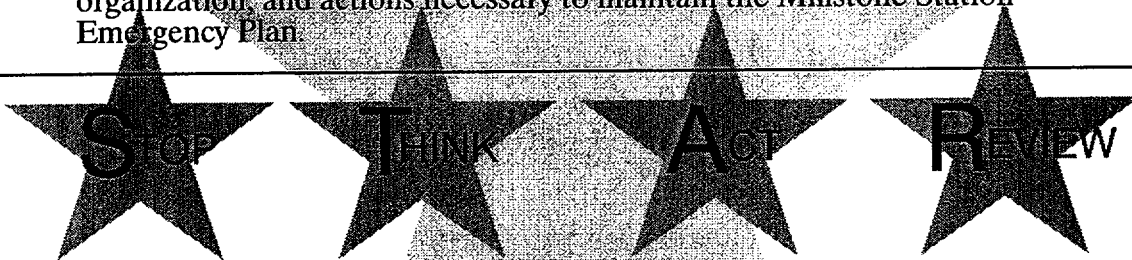


**Management Program for Maintaining
Emergency Preparedness**

EPAP 1.15

Rev. 007-02

This procedure describes sources of information, responsibilities,
organization, and actions necessary to maintain the Millstone Station
Emergency Plan.



Approval Date:

11/12/01

Effective Date:

11/15/01

Level of Use
Information

**Millstone All Units
Emergency Plan Administrative Procedure**

Management Program for Maintaining Emergency Preparedness

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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 Position Owners.

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 Emergency Planning Process Owner for Maintaining Emergency Preparedness

The Emergency Planning Process Owner (EPPO) 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 documents and NGP 2.04, "Nuclear Incidents Response and Recovery."

EPPO

- 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 Emergency Planning drills and exercises.
- 1.2.4 Biennially REVIEW station procedures in accordance with the QAP, MP-02-OST-BAP01, "Quality Assurance Program Topical Report," and MP-05-DC-SAP01, "Administration of Manuals, Procedures, Guidelines, Handbooks, and Forms," and REVIEW additional changes for impact on the Millstone Station Emergency Plan.
- 1.2.5 COORDINATE the development and distribution of emergency preparedness documents.
- 1.2.6 ESTABLISH SERO position owners and DOCUMENT in Attachment 5.
- 1.2.7 PROVIDE SERO qualification status to SERO position owners on a routine basis.
- 1.2.8 PROVIDE listing of SERO members personal information to SERO 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 conditions adverse to quality and areas for improvement.

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- 1.2.12 Refer To Attachment 2, "Summary of Department Responsibilities for Facilities, Equipment, and Material Maintenance," and ENSURE responsible process owners maintain emergency response in a state of readiness at all times.
- 1.2.13 Refer To EPAP 1.15-001, "SERO Training and Qualification Record," and COORDINATE completion of qualifications for each new SERO member.
- 1.2.14 ENSURE Millstone Station Emergency Plan and associated procedures are maintained.
- 1.2.15 Refer To Attachment 6, "Roles and Responsibilities for Emergency Preparedness Dose Assessment," and ENSURE responsibilities are carried out.
- 1.2.16 REVIEW emergency planning and response information forwarded from Station Management for possible adoption.
- 1.2.17 COORDINATE with off-site agencies and local officials, and ENSURE off-site Emergency Plan Program is maintained and areas of responsibility are effectively carried out.

— End of Section 1.2 —



1.3 Station Management Actions for Maintaining Emergency Preparedness

CNO

1.3.1 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). It is recommended that for on-call and subject-to-call positions, a fifth individual be qualified to quickly fill any unexpected team vacancies.

SERO
Position
Owners

- 1.3.2 MAINTAIN a "4 team" rotation for SERO duty (i.e., red, white, blue, gold).
- 1.3.3 IF vacancies exist, ENSURE weekly rotation coverage is provided by remaining position holders during reduced staffing periods.
- 1.3.4 ENSURE adequate station support is provided for emergency preparedness functions.
- 1.3.5 AUTHORIZE the conduct of drills and exercises.
- 1.3.6 ENSURE personnel within reporting chain who are assigned to SERO maintain their SERO qualifications.
- 1.3.7 Refer To and COMPLETE EPAP 1.15-001, "SERO Training and Qualification Record," to initiate assignment of personnel in your reporting chain to the SERO.
- 1.3.8 Refer To and COMPLETE EPAP 1.15-002, "SERO Removal Form," to initiate removal of SERO personnel in your reporting chain.
- 1.3.9 Refer to Attachment 5, "SERO Qualifications and Reporting Location," and REVIEW for assigned SERO position owners.

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1.3.10 REVIEW and FORWARD to the EPPO, 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
- Lessons learned from training and drills

MPOs and VP,
Nuclear Tech
Svcs,
Millstone

1.3.11 ENSURE personnel are provided to support emergency preparedness activities.

1.3.12 REVIEW drill critiques and ENSURE applicable corrective actions are implemented.

1.3.13 Refer To Attachment 2, "Summary of Department Responsibilities for Facilities, Equipment, and Material Maintenance," and PROVIDE a point of contact to the EPPO for listed organizations.

Process
Owners and
Team Leads

1.3.14 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 RPM 4.8.5, "Emergency Radiological Equipment Maintenance and Inspection." (copy to EPSD)
 - Attachment 3, "Emergency Response Facility Readiness Check Report Form"

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- c. **VERIFY** emergency equipment and instruments are operationally available at least once each quarter and after each use.

1.3.15 **ENSURE** personnel are briefed on extent of drill participation.

1.3.16 **IF** requested by SERO Team DSEOs, **ASSIGN** personnel to SERO.

1.3.17 **ENSURE** the department list of SERO members in NUTIMS is current.

1.3.18 **IF** a SERO vacancy occurs, **NOTIFY** the following:

- a. Team DSEO
- b. MPOs and VP, Nuclear Technical Services, Millstone
- c. Remaining SERO members for the position
- d. EPPO

1.3.19 **PROVIDE** personnel to participate in emergency response scenario development, drills, and exercises.

1.3.20 **MAINTAIN** SERO on-call independent rotation schedules for the following positions:

- Electricians
- Mechanics
- RMTs
- GES
- I&C Technicians

Team DSEO →

1.3.21 **OVERSEE** team activities including the following:

- Training attendance and continuing training
- Drill schedules
- Drill and exercise participation

1.3.22 **ENSURE** SERO on-call position rotation schedules are developed.

1.3.23 **RESOLVE** SERO staffing issues.

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SERO
Position
Owners

1.3.24 MAINTAIN SERO position activities as follows:

- a. ASSIGN personnel to owned positions.
- b. COORDINATE with the following to fill existing or potential vacancies:
 - Team DSEO
 - Emergency Planning Services Department
 - Training
- c. ENSURE position holders maintain qualifications.
- d. Refer To EPAP 1.15–002 and 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.

NFSA

1.3.25 Refer To Attachment 6, “Roles & Responsibilities for Emergency Preparedness Dose Assessment,” and ENSURE areas of responsibility are carried out.

RDAC

1.3.26 Refer To and IMPLEMENT Attachment 7, “Radiological Dose Assessment Committee.”

– End of Section 1.3 –

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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 EPPO provide replacement pager.
- After normal working hours, REQUEST Security Shift Supervisor provide replacement pager from NAP Security Office.

1.4.3 NOTIFY EPPO 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.

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.

1.4.6 **MAINTAIN** qualifications and proficiency for annual requalification by performing one of the following:

NOTE

Exceptions to participation in drills may be made by Team DSEO 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 in accordance with Attachment 5.
- **PERFORM** as one of the following for related position:
 - Drill controller
 - Evaluator
 - Position coach or mentor

1.4.7 Refer To EPAP 1.15–002, “SERO Removal Form,” 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 –



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:

- ENSURE pagers are on at all times and are worn or in the immediate vicinity to be heard.
- ADHERE to the fitness for duty policies.
- REMAIN within 60 minutes travel time of reporting location.
- WHEN indicating your ETA, IDENTIFY a realistic time to report to your designated Emergency Response Facility (ERF) based upon your current location.

②

②

NOTE

Once the Emergency Response Facilities are staffed and operational, SERO members shall not call back into the Emergency Notification and Response System.

- Promptly ACKNOWLEDGE initial pager activations.
- IF notification is received of an emergency event AND you are not successful in acknowledging initial pager activation, REPORT directly to designated emergency response facility and CALL in.
- IF you are the designated on-call on-duty responder, REPORT to your facility even if ENRS did not accept you or states that another individual has already accepted the position.

②

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.

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b. IF *not* able to obtain a replacement, **PERFORM** the following:

- During normal working hours, **CONTACT** SERO Team DSEO.
- After normal working hours, **NOTIFY** the Unit 3 Control Room Shift Technician.

On-Call and
Not On-Duty
SERO
Positions

1.5.3 IF on-call and *not* on-duty, **PERFORM** the following:

NOTE

Once the Emergency Response Facilities are staffed and operational, SERO members shall not call back into the Emergency Notification and Response System.

- a. IF fit for duty AND within 60 minutes travel time to reporting location, promptly **ACKNOWLEDGE** initial pager activations. |②
- b. IF *not* fit for duty and contacted by the MOR, **COMPLY** with the instructions provided.

1.5.4 Using SERO call-in card instructions, **PERFORM** the following to acknowledge pager activations:

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NOTE

1. For open positions, the caller will be instructed to report. For filled positions, subsequent callers will be directed to remain available.
2. Once you have contacted the call-in system and the line is ringing, your call is in the queue. Do not hang up until the call is completed and ENRS instructs you to hang up. | ②
3. 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.
4. Enter a realistic ETA. If you cannot report to your ERF within 60 minutes of notification, *do not* accept the position. | ②

- 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.
 - 1) ENTER individual identification (PIN) code.
 - 2) IF position is open, LISTEN to the information and RESPOND appropriately.
 - 3) IF position is *not* open, REMAIN available to respond.
- 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.

NOTE

If Unit Event codes are received, the ENRS is not available to provide any information to callers. EPAP 1.15-003 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 –

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1.6 Subject to Call Positions

NOTE

1. Subject to call pager positions are assigned to teams only for training and drill scheduling purposes.
2. The approximate 10 minute wait to acknowledge pager activations is to allow for initial calls by minimum staffing responders to access the system. | ②
3. Once the Emergency Response Facilities are staffed and operational, SERO members shall not call back into the Emergency Notification and Response System.

- 1.6.1 IF fit for duty AND within 60 minutes travel time to reporting location, **ACKNOWLEDGE** initial pager activations after waiting approximately 10 minutes. | ②

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 4 hours 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.

- 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 —

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1.7 On-Shift Positions

- 1.7.1 Refer To Attachment 5 and IDENTIFY reporting location.
- 1.7.2 WHEN notified of an Unusual Event, REPORT to affected unit control room.
- 1.7.3 WHEN notified of an Alert, Site Area Emergency, or General Emergency, REPORT to the designated reporting location.

Shift
Technician
and Station
Duty Officer

All On-shift
SERO
Positions

– End of Section 1.7 –

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1.8 SERO Assembly Areas

1.8.1 IF an Alert or higher classification has been declared during normal business hours, **PERFORM** the following:

- IF on-shift AND *not* on duty (i.e., off-duty ROs, COs, PEOs, etc.), **REPORT** to the OSC Assembly Area (AA) in Bldg 475 cafeteria.
- IF on-call AND *not* on duty AND response is within the Protected Area (PA) (i.e., mechanics, electricians, MRCA, etc.), **REPORT** to the OSC AA in Bldg 475 cafeteria.
- IF on-call AND *not* on duty AND response is outside the PA (i.e., DSEO, ADEOF, MOR, etc.), **REPORT** to the Simulator Building Foyer.
- IF subject-to-call AND response is within the PA, **REPORT** to the OSC AA in Bldg 475 cafeteria.
- IF subject-to-call AND response is outside the PA, **REPORT** to the Simulator Building foyer.

1.8.2 IF an Alert or higher classification has been declared during the off-hours, **PERFORM** the following:

- IF on-shift AND *not* on duty, **REPORT** to the OSC AA in Bldg 475 cafeteria.
- IF reporting from off-site, **REPORT** to your designated Emergency Response Facility (i.e., TSC, EOF, affected unit control room, etc.).

– End of Section 1.8 –

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1.9 Drills and Exercises

NOTE

1. Drills provide a training opportunity to enhance and maintain effective emergency response capabilities.
2. Major objectives of the Millstone Station Emergency Plan are 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 walkthrough or a tabletop discussion of an evolution or operation. This type of training evaluation is distinct from those described in Section 1.9.1 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 EPPO 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.

EPPO

1.9.1 Refer To the EP 6 year objectives schedule and CONDUCT the following drills and tests, as appropriate:

- Health Physics Drills
- Radiological Monitoring Drills
- Chemistry Drills
- Medical Emergency Drills
- Communication tests
- Emergency Plan Training Drills

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- Exercises
- Off-site public alerting siren tests
- Off-hour Drills
- Assembly and Accountability Drills

1.9.2 REQUEST drill support from other departments, as applicable.

1.9.3 ENSURE Nuclear Training Department conducts fire drills.

1.9.4 CONDUCT formal critique after each of the following:

- Drill
- Series of drills
- Exercise

– End of Section 1.9 –

1.10 Emergency Response Facilities (ERFs) and Equipment

NOTE

1. Each ERF has equipment in place to perform functions assigned in the Millstone Station Emergency Plan. The EPPO is 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

- 1.10.1 Refer To Attachment 2, "Summary of Department Responsibilities for Facilities, Equipment, and Material Maintenance," and ENSURE facilities are maintained, as assigned.
- 1.10.2 PERFORM equipment check or maintenance at required intervals and after each use.
- 1.10.3 Refer To Attachment 3, "Emergency Response Facility Readiness Check Report Form," or other appropriate documentation and PROVIDE documentation of completed activities to the EPPO.
- 1.10.4 Promptly REPORT problems to the EPPO.
- 1.10.5 IF alteration or modification of ERF or equipment is required, NOTIFY the EPPO before alteration or modification is performed.

Unit
Chemistry
Technicians
and RAE

- 1.10.6 Refer To Attachment 4, "Documentation of Testing of Dose Assessment Computer Program," and TEST dose assessment computer program.

— End of Section 1.10 —

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1.11 Severe Accident Management

EPPO →

- 1.11.1 Severe accident management (SAM) 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.
- 1.11.2 Drills requiring implementation of SAM Guidelines (SAM-G) will be conducted as part of the scheduled 6-year objectives for each operating unit. The SAM-G 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."
- 1.11.3 SAM-G training shall be provided on a 6-year frequency for continuing training purposes.

– End of Section 1.11 –

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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"
- 2.1.4 MP-28-MET-PRG, "Meteorological Monitoring"
- 2.1.5 AR 99016164-01, "Review of Millstone Emergency Plan for impact on Chemistry Technician"
- 2.1.6 AR 99016508-03, "Nuclear Training Department conducts fire drills"
- 2.1.7 AR 99016508-06, "Specify off-site responsibilities of Manager EPSD"
- 2.1.8 AR 00002141-04, "Remove Unit 1 personnel from Station Director Position Owner responsibilities"

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"
- 2.2.6 QAP, MP-02-OST-BAP01, "Quality Assurance Program Topical Report"

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2.2.7 MP-05-DC-SAP01, "Administration of Manuals, Procedures, Guidelines, Handbooks, and Forms

3. COMMITMENTS

- 3.1 NU Letter B14268 commits Millstone to have procedures to accommodate the implementation of ERDS.
- 3.2 NU Letter A06789 commits Millstone to surveille computer hardware (OFIS) quarterly.
- 3.3 NU Letter A02567 commits Millstone to monitor emergency equipment, including communications.



4. SUMMARY OF CHANGES

Rev 007-02

- 4.1 Added new Section 1.8 in Table of Contents to describe SERO assembly areas.
- 4.2 Deleted "NU" from step 1.3.26.
- 4.3 Modified Section 1.5, On-call Positions, to clarify on-call duty assignment turnovers and reporting responses.
- 4.4 Deleted waiting 10 minutes if on-call not on-duty in step 1.5.3 note.
- 4.5 Clarified how to respond to listening to the ENRS message and entering ETA in step 1.5.4.a note.
- 4.6 Clarified subject-to-call pager acknowledgment in step 1.6.1 and 1.6.1 note.
- 4.7 Deleted AMT response time in step 1.6.2 note. Not correct.
- 4.8 Added Section 1.8 on Assembly Areas for SERO.
- 4.9 Changed initial drill requirements in Attachment 5 for Security Shift Supervisor and Alarm Station Supervisor from "OJT" to "provided by Protective Services personnel."

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- 4.10 Changed organization for testing Unit 1 PA speakers, radio communications, and unit page, siren system, and evacuation alarm to Unit 2 Operations in Attachment 2.
- 4.11 Changed organization for maintaining control copies of drawings in the Emergency Response Facilities to Unit 2 Engineering in Attachment 2.
- 4.12 Deleted Unit 1 PEO/CO position in Attachment 5.
- 4.13 Changed Unit 1 CFH/MCRO; initial Drill Requirements to Walk-Thru; and annual requalification to "No" in Attachment 5.

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- 4.14 Changed NUQAP to QAP in step 1.2.4 and step 2.2.6.

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- 4.15 Added VP, Technical Services, Millstone as the owner for the Assessment Process in steps 1.3.11 and 1.3.18.
- 4.16 Changed RAE, SAB to Nuclear Fuels and Safety Analysis in step 1.3.25, Attachment 6 and Attachment 7.
- 4.17 Added Unusual Event as a classification in step 1.7.2 for ST and SDO positions to report to their designated emergency response facilities.
- 4.18 Added "NFSA" to Attachment 1 abbreviations.
- 4.19 Deleted reference to OFIS users guide in Attachment 1.
- 4.20 In Attachment 2, updated references for C-OP 600.1 to C-SP 600.1; updated SP 699 to C-SP 600.12; updated C-OP 600.3 to C-SP 600.3.
- 4.21 In Attachment 2, changed frequency for testing the Met Tower Generator from quarterly to monthly; changed responsible organization to Unit 2 Operations.
- 4.22 In Attachment 5, changed Master Process Owner (MPO) for the ARPs, EOF HP Tech, MRCA, Rad Com, RMTs 3-4-5, RMT A-B-C-D, and Radiological Briefer to MPO Operate the Asset. Changed MPO Assessment to VP, Technical Services, Millstone. Changed Chief Nuclear Officer to VP and Senior Nuclear Executive.
- 4.23 In Attachment 5, changed initial drill requirement for security guard from on-the-job to Protective Services training.
- 4.24 Deleted reference to PORC in Attachment 6.



Attachment 1

Emergency Preparedness Abbreviations and Definitions

(Sheet 1 of 1)

1. ADEOF – Assistant Director Emergency Operations Facility
2. ADTS – Assistant Director Technical Support
3. AMRDA – Assistant Manager of Radiological Dose Assessment
4. ENRS – Emergency Notification and Response System. The on-site and off-site notification system including pager and phone communications.
5. EPPO – Emergency Planning Process Owner
6. EPSD – Emergency Planning Services Department
7. ERC – External Resources Coordinator
8. ERDS – Emergency Response Data System
9. IDA – Initial Dose Assessment
10. MIDAS – Meteorological Information and Dose Assessment Model
11. MPO – Master Process Owner
12. NFSA – Nuclear Fuels and Safety Analysis
13. RAE – Radiological Assessment Engineer
14. RDAC – Radiological Dose Assessment Committee
15. RES – Radiological Engineering Section
16. SAM-G – Severe Accident Management Guidelines
17. Millstone Station Emergency Plan: The Millstone Station Emergency Plan contains requirements and organizational responsibilities and serves as the license commitment document for emergency preparedness.
18. Emergency Plan Administrative Procedure (EPAP)/Functional Administrative Procedure (FAP): Procedures that implement the Station Emergency Plan.
19. 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 ENRS and radio communication equipment. EPUGs are not subject to SORC approval. The Emergency Planning Services Department is responsible for maintaining the accuracy of EPUGs.
20. 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 Electrical Services personnel). Department supervision will maintain an on-call rotation schedule for these personnel.

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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 001 003 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 |
| Telecommunication Services | Pagers, Radios, ENRS | General Support and Testing | AN | |
| Nuclear Document Services | FSAR, Tech Specs, Aperture Cards | Maintain Control Copies in ERFs | AN | GRITS |
| Nuclear Document Services | Unit – Specific Procedures | Maintain Control copies in EOF | AN | Passport |
| Nuclear Document 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-SP 600.1 |
| 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 |

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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 FAP10 |
| Nuclear Document Services | Unit – Specific Procedures | Maintain Control Copies in TSC | AN | Passport |
| Nuclear Document Services/EPSP | Emergency Planning FAPs | Maintain Document Distribution and Control; Audit | AN | Passport |
| Unit 2 I&C | Meteorological Equipment | Inspect, Calibrate, and Confirm Operability | Q | C-SP-400.2 |
| Security | Station Page and Evacuation Siren | Monitor Outside Speakers when Units Conduct Test. | M/Q | C-SP 600.1 |
| 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 |

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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-2 Operations | Meteorological Tower Generator | Test ² | M | C-SP 600.12 |
| U-2 Operations | U-1 PA Speakers | Test | M/Q | C-SP 600.1 |
| Station Maintenance | Emergency Operations Facility | Electrical and Mechanical Maintenance of HVAC | Q | Vendor Support Provided |
| 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-SP 600.1 |
| 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-SP 600.1 |

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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-2, 3) | Drawings | Maintain Control Copies in ERFs. | AN | Master Control Index |
| Unit Operations (U-2, 3) | Radio Communications (Waterford, State, Tri-Town) | Test ² | D | C-SP 600.3 |
| Unit Operations (U-2, 3) | Unit Page, Siren System and Evacuation Alarm | Test ² | M | C-SP 600.1 |
| Unit Operations (U-3) | Radiopaging ENRS Daily/Weekly Test | Test ² | D, W | C-OP 608 |
| Unit Operations (U-3) | Radiopaging ENRS Monthly Test | Test ² | M | C-OP 606 |
| Unit Chemistry (U-2,3) | PASS | System Surveillance | | CP-(2800, 3800) |
| IT | 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.

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Attachment 4
Documentation of Testing of Dose Assessment Computer Program
(Sheet 1 of 1)

NOTE

MIDAS is installed in the EOF and IDA is installed in the control rooms. MIDAS, 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. |
| Unit 2 Unit 3 | → | 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. <u>IF</u> test results are <i>not</i> satisfactory, NOTIFY EPSD. |

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Attachment 5

SERO Qualifications and Reporting Location (3)

(Sheet 1 of 7)

| Position | Code | CAT | LOC | RESP | RAD | SERO Position Owners | Drill Requirements | |
|---|--------|-----|------------|------|-----|-----------------------------------|----------------------|---------------------------------|
| | | | | | | | Annual Requal Yes/No | Initial (4) Drill/OJT/Walk-Thru |
| Assistant Director Emergency Operations Facility | ADEOF | OC | EOF | No | No | VP, Technical Services, Millstone | Yes | Drill |
| Assistant Manager of Radiological Dose Assessment | AMRDA | STC | EOF | No | No | MPO Operate the Asset | Yes | Drill |
| Accident Management Team Thermal and Hydraulic Engineer | AMT/TH | STC | TSC/OSC | No | Yes | MPO Manage the Asset | Yes | OJT |
| Accident Management Team Lead | AMTL | STC | TSC/OSC | No | Yes | MPO Manage the Asset | Yes | OJT/SAM (8) |
| Accident Management Team Mechanical Engineer | AMTME | STC | TSC/OSC | No | Yes | MPO Manage the Asset | Yes | OJT |
| Assistant Radiation Protection Supervisor | ARPS | OC | OSC AA | No | Yes | MPO Operate the Asset | Yes | OJT |
| Director of Station Emergency Operations | DSEO | OC | EOF | No | No | VP and Senior Nuclear Executive | Yes | Drill |
| EOF Health Physics Technician | EOFHP | OC | EOF | Yes | Yes | MPO Operate the Asset | Yes | Walk-Thru |
| EOF Shift Technician | EOFST | OC | EOF | Yes | Yes | MPO Operate the Asset | No | Walk-Thru |
| External Resource Coordinator | ERC | STC | EOF | No | No | MPO Procure the Asset | Yes | Walk-Thru (5) |
| Executive Spokesperson | ES | OC | Media Cntr | No | No | VP and Senior Nuclear Executive | Yes | Walk-Thru |
| Fire Brigade/EMT | FB | OS | OSC AA | Yes | Yes | MPO Support Services | No | Drill (6) |
| Field Team Data Coordinator | FTDC | STC | EOF | No | No | MPO Operate the Asset | Yes | Walk-Thru |
| Generations Electrical Services Specialist | GES | OC | OSC AA | No | Yes | MPO Maintain the Asset | No | Walk-Thru |

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Attachment 5
SERO Qualifications and Reporting Location (3)
(Sheet 2 of 7)

| Position | Code | CAT | LOC | RESP | RAD | SERO Position Owners | Drill Requirements | |
|---|--------|-----|---------------|------|-----|-----------------------------------|----------------------|---------------------------------|
| | | | | | | | Annual Requal-Yes/No | Initial (4) Drill/OJT/Walk-Thru |
| Meteorological Assistant | MET | STC | EOF | No | No | MPO Support Services | Yes | Walk-Thru |
| Manager of Resources | MOR | OC | EOF | No | No | MPO Procure the Asset | Yes | Drill |
| Manager of Security | MOS | STC | TSC/OSC | No | Yes | MPO Support Services | Yes | Drill |
| Manager Public Information | MPI | OC | EOF | No | No | MPO Communications | Yes | Drill |
| Manager Radiological Consequence Assessment | MRCA | OC | TSC/OSC | No | Yes | MPO Operate the Asset | Yes | Drill |
| Nuclear News Manager | NNM | OC | Media Cntr | No | No | MPO Communications | Yes | Drill |
| CBETS Operator | CBETS | STC | OSC AA | No | Yes | MPO Support Services | Yes | Walk-Thru |
| Radiological Communicator | RADCOM | STC | EOF OSC AA | No | Yes | MPO Operate the Asset | Yes | Walk-Thru |
| Radiological Assessment Engineer | RAE | STC | EOF | No | No | MPO Manage the Asset | Yes | Drill |
| Radiological Monitoring Team 3 Lead | RMT3 | OC | EOF | Yes | Yes | MPO Operate the Asset | Yes | Walk-Thru |
| Radiological Monitoring Team Driver* | RMTDRV | OC | EOF | Yes | Yes | VP, Technical Services, Millstone | Yes | Walk-Thru |
| Radiological Monitoring Team 4 Lead | RMT4 | OC | EOF | Yes | Yes | MPO Operate the Asset | Yes | Walk-Thru |
| Radiological Monitoring Team Driver* | RMTDRV | OC | EOF | Yes | Yes | VP, Technical Services, Millstone | Yes | Walk-Thru |
| Radiological Monitoring Team 5 Lead | RMT5 | OC | EOF | Yes | Yes | MPO Operate the Asset | Yes | Walk-Thru |

* All RMT Drivers are in one group with three people on call at all times.

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Attachment 5
SERO Qualifications and Reporting Location (3)
(Sheet 3 of 7)

| Position | Code | CAT | LOC | RESP | RAD | SERO Position Owners | Drill Requirements | |
|---|-----------|-----|--------------|------|-----|-----------------------------------|----------------------|---------------------------------|
| | | | | | | | Annual Requal-Yes/No | Initial (4) Drill/OJT/Walk-Thru |
| Radiological Monitoring Team Driver* | RMTDRV | OC | EOF | Yes | Yes | VP, Technical Services, Millstone | Yes | Walk-Thru |
| NAP Radiological Monitoring Team | RMTA | OC | NAP | Yes | Yes | MPO Operate the Asset | Yes | Walk-Thru |
| NAP Radiological Monitoring Team | RMTB | OC | NAP | Yes | Yes | MPO Operate the Asset | Yes | Walk-Thru |
| SAP Radiological Monitoring Team | RMTC | OC | SAP | Yes | Yes | MPO Operate the Asset | Yes | Walk-Thru |
| SAP Radiological Monitoring Team | RMTD | OC | SAP | Yes | Yes | MPO Operate the Asset | Yes | Walk-Thru |
| Station Duty Officer | SDO | OS | CR | Yes | Yes | MPO Operate the Asset | No | OJT |
| Technical Support Center Reactor Engineer | TSCRE | OC | TSC/OSC | No | Yes | MPO Manage the Asset | Yes | Walk-Thru |
| Technical Assistant | TA | STC | Media Center | No | No | VP, Technical Services, Millstone | Yes | Walk-Thru |
| Chemistry Technician | CHEM-TECH | OS | CR | Yes | Yes | MPO Operate the Asset | No | Walk-Thru |
| RMT #1 | HPTECH | OS | CR | Yes | Yes | MPO Operate the Asset | No | Walk-Thru |
| Unit 1 Technical Support Center Shift Manager | U1 TSCSM | STC | TSC/OSC | No | Yes | MPO Operate the Asset | No | OJT |

* All RMT Drivers are in one group with three people on call at all times.

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Attachment 5
SERO Qualifications and Reporting Location (3)
(Sheet 4 of 7)

| Position | Code | CAT | LOC | RESP | RAD | SERO Position Owners | Drill Requirements | |
|---|------------|-----|---------|------|-----|------------------------|----------------------|---------------------------------|
| | | | | | | | Annual Requal-Yes/No | Initial (4) Drill/OJT/Walk-Thru |
| Unit 2 Assistant Director Technical Support | U2ADTS | OC | TSC/OSC | No | Yes | MPO Operate the Asset | Yes | Drill |
| Unit 2 Control Room Data Coordinator | U2CRDC | STC | CR | No | Yes | MPO Training | Yes | Walk-Thru |
| Unit 2 Electrician | U2ELEC | OC | OSC AA | Yes | Yes | MPO Maintain the Asset | No | Walk-Thru |
| Unit 2 Instrument & Control Operational Support Center | U2I&C OSC | STC | TSC/OSC | No | Yes | MPO Maintain the Asset | Yes | Drill |
| Unit 2 Instrument & Control Technician | U2I&C TECH | OC | OSC AA | Yes | Yes | MPO Maintain the Asset | No | Walk-Thru |
| Unit 2 Mechanic | U2MECH | OC | OSC AA | Yes | Yes | MPO Maintain the Asset | No | Walk-Thru |
| Unit 2 Manager of Communications | U2MOC | OC | EOF | No | No | MPO Training | Yes | Walk-Thru |
| Unit 2 Manager of Operational Support Center | U2MOSC | OC | TSC/OSC | No | Yes | MPO Maintain the Asset | Yes | Drill |
| Unit 2 Manager of Technical Support Center | U2MTSC | OC | TSC/OSC | No | Yes | MPO Manage the Asset | Yes | Drill |
| Unit 2 Operational Support Center Maintenance Assistant | U2 OSCMA | STC | TSC/OSC | No | Yes | MPO Maintain the Asset | Yes | Drill |
| Unit 2 PEO | U2PEO | OS | CR | Yes | Yes | MPO Operate the Asset | (1) | (1) |
| Unit 2 Control Operator | U2CO | OS | CR | Yes | Yes | MPO Operate the Asset | (1) | (1) |

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Attachment 5
SERO Qualifications and Reporting Location (3)
(Sheet 5 of 7)

| Position | Code | CAT | LOC | RESP | RAD | SERO Position Owners | Drill Requirements | |
|---|---------------|-----|---------|------|-----|------------------------|--------------------------|--|
| | | | | | | | Annual Requal- Yes/No | Initial (4) Drill/OJT/ Walk-Thru |
| Unit 2 STA | U2STA | OS | CR | Yes | Yes | MPO Operate the Asset | (1) | (1) |
| Unit 2 Technical Information Coordinator | U2TIC | OC | EOF | No | No | MPO Training | Yes | Walk-Thru |
| Unit 2 Technical Support Center Electrical Engineer | U2 TSCEE | OC | TSC/OSC | No | Yes | MPO Manage the Asset | Yes | OJT |
| Unit 2 Technical Support Center Mechanical Engineer | U2 TSCME | OC | TSC/OSC | No | Yes | MPO Manage the Asset | Yes | OJT |
| Unit 2 Technical Support Center Shift Manager | U2 TSCSM | STC | TSC/OSC | No | Yes | MPO Operate the Asset | No | OJT |
| Unit 3 Assistant Director Technical Support | U3ADTS | OC | TSC/OSC | No | Yes | MPO Operate the Asset | Yes | Drill |
| Unit 3 Control Room Data Coordinator | U3CRDC | STC | CR | No | Yes | MPO Training | Yes | Walk-Thru |
| Unit 3 Electrician | U3ELEC | OC | OSC AA | Yes | Yes | MPO Maintain the Asset | No | Walk-Thru |
| Unit 3 Instrument & Control Operational Support Center | U3I&C OSC | STC | TSC/OSC | No | Yes | MPO Maintain the Asset | Yes | Drill |
| Unit 3 Instrument & Control Technician | U3I&C TECH | OC | OSC AA | Yes | Yes | MPO Maintain the Asset | No | Walk-Thru |
| Unit 3 Mechanic | U3MECH | OC | OSC AA | Yes | Yes | MPO Maintain the Asset | No | Walk-Thru |

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Attachment 5

SERO Qualifications and Reporting Location (3)

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| Position | Code | CAT | LOC | RESP | RAD | SERO Position Owners | Drill Requirements | |
|---|----------|-----|---------|------|-----|------------------------|----------------------|---------------------------------|
| | | | | | | | Annual Requal-Yes/No | Initial (4) Drill/OJT/Walk-Thru |
| Unit 3 Manager of Communications | U3MOC | OC | EOF | No | No | MPO Training | Yes | Walk-Thru |
| Unit 3 Manager of Operational Support Center | U3MOSC | OC | TSC/OSC | No | Yes | MPO Maintain the Asset | Yes | Drill |
| Unit 3 Manager of Technical Support Center | U3MTSC | OC | TSC/OSC | No | Yes | MPO Manage the Asset | Yes | Drill |
| Unit 3 Operational Support Center Maintenance Assistant | U3 OSCMA | STC | TSC/OSC | No | Yes | MPO Maintain the Asset | Yes | Drill |
| Unit 3 PEO | U3PEO | OS | CR | Yes | Yes | MPO Operate the Asset | (1) | (1) |
| Unit 3 Control Operator | U3CO | OS | CR | Yes | Yes | MPO Operate the Asset | (1) | (1) |
| Unit 3 STA | U3STA | OS | CR | Yes | Yes | MPO Operate the Asset | (1) | (1) |
| Unit 3 Technical Information Coordinator | U3TIC | OC | EOF | No | No | MPO Training | Yes | Walk-Thru |
| Unit 3 Technical Support Center Electrical Engineer | U3 TSCEE | OC | TSC/OSC | No | Yes | MPO Manage the Asset | Yes | OJT |
| Unit 3 Technical Support Center Mechanical Engineer | U3 TSCME | OC | TSC/OSC | No | Yes | MPO Manage the Asset | Yes | OJT |
| Unit 3 Technical Support Center Shift Manager | U3 TSCSM | STC | TSC/OSC | No | Yes | MPO Operate the Asset | No | OJT |
| Unit 2 Unit Supervisor | U2US | OS | CR | Yes | Yes | MPO Operate the Asset | (1) | (1) |
| Unit 3 Unit Supervisor | U3US | OS | CR | Yes | Yes | MPO Operate the Asset | (1) | (1) |
| Security Guard | SECGRD | OS | POST | Yes | Yes | MPO Support Services | No | (9) |
| Security Shift Supervisor | SSS | OS | CAS | No | Yes | MPO Support Services | No | (9) |

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Attachment 5

SERO Qualifications and Reporting Location (3)

(Sheet 7 of 7)

| Position | Code | CAT | LOC | RESP | RAD | SERO Position Owners | Drill Requirements | |
|--|--------|-----|--------------|------|-----|-----------------------------------|----------------------|---------------------------------|
| | | | | | | | Annual Requal-Yes/No | Initial (4) Drill/OJT/Walk-Thru |
| Manager Radiological Dose Assessment | MRDA | OC | EOF | No | No | MPO Operate the Asset | Yes | Drill |
| Unit 3 Shift Technician | U3ST | OS | CR | Yes | Yes | MPO Operate the Asset | Yes | OJT |
| Unit 1 CFH/MCRO | CFH | OS | CR | Yes | Yes | MPO Operate the Asset | No | Walk-Thru |
| Unit 2 Shift Manager | U2SM | OS | CR | Yes | Yes | MPO Operate the Asset | (1) | (1) |
| Unit 3 Shift Manager | U3SM | OS | CR | Yes | Yes | MPO Operate the Asset | (1) | (1) |
| Alarm Station Supervisor | SECSUP | OS | CAS/SAS | Yes | Yes | MPO Support Services | No | (9) |
| Regulatory Liaison ⁽⁷⁾ | RL | STC | EOF | No | No | VP, Technical Services, Millstone | No | Walk-Thru |
| State Emergency Planning Liaison ⁽⁷⁾ | SEPL | STC | State EOC | No | No | VP, Technical Services, Millstone | No | Walk-Thru |
| Station Emergency Planning Representative ⁽⁷⁾ | SEPR | STC | EOF | No | No | VP, Technical Services, Millstone | No | Walk-Thru |
| Media Center Liaison ⁽⁷⁾ | MCL | STC | Media Center | No | No | MPO Communications | No | Walk-Thru |
| Rumor and Inquiry Control Liaison ⁽⁷⁾ | RICL | STC | Media Center | No | No | MPO Communications | No | Walk-Thru |
| Technical Briefer ⁽⁷⁾ | TB | STC | Media Center | No | No | MPO Operate the Asset | No | Walk-Thru |
| Radiological Briefer ⁽⁷⁾ | RB | STC | Media Center | No | No | MPO Operate the Asset | No | Walk-Thru |

(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.

(7) Supplemental positions not described in the Millstone Station Emergency Plan.

(8) SAM required for initial qualifications

(9) Security Guard, Security Shift Supervisor (SSS), and Alarm Security Supervisor training is provided by Protective Services personnel.

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Attachment 6
Roles and Responsibilities for
Emergency Preparedness Dose Assessment
(Sheet 1 of 2)

| Area | EPPO | NFSA |
|--|--|--|
| Emergency Plan (Includes Ingestion Pathway Plan) | EPPO 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 | NFSA 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) | EPPO 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 | NFSA 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 | EPPO shall: <ul style="list-style-type: none"> • 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 writer's guide review by Procedures Group • Perform necessary 50.54(q) reviews • Provide V&V support as necessary • Facilitate scheduling of SORC by Procedures Group • Set effective implementation dates | NFSA shall: <ul style="list-style-type: none"> • Provide radiological technical content • 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 SORC for approval |

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Attachment 6
Roles and Responsibilities for
Emergency Preparedness Dose Assessment
(Sheet 2 of 2)

| Area | EPPO | NFSA |
|-----------------------------|---|--|
| Tools and Software | EPPO shall: <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 | NFSA shall: <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 | EPPO shall: <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 | NFSA shall: <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 |

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Attachment 7
Radiological Dose Assessment Committee
(Sheet 1 of 1)

1. Purpose:

Ensure a regulatory compliant, effective dose assessment capability is maintained at Millstone facilities.

2. Membership:

The following functions shall be represented as members of this committee:

- Emergency Preparedness – (EPPO) – 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 EPPO 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 NFSA management for disposition.

**Level of Use
Information**



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