

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



MAY 24 2001

Docket Nos. 50-245
50-336
50-423
B18410

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-FAP01-001, "Control Room - Director of Station Emergency Operations (CR-DSEO)," Major Revision 0, Minor Revision 1, transmitted via Attachment 1;
- MP-26-EPI-FAP04, "Emergency Operations Facility Activation and Operation," Major Revision 0, Minor Revision 2, transmitted via Attachment 2;
- MP-26-EPI-FAP04-010, "Meteorological Assistant," Major Revision 0, Minor Revision 1, transmitted via Attachment 3;
- MP-26-EPI-FAP04-013, "Manager of Communications (MOC)," Major Revision 1, Minor Revision 1, transmitted via Attachment 4;
- MP-26-EPI-FAP06, "Classification and PARs," Major Revision 0, Minor Revision 1, transmitted via Attachment 5;
- MP-26-EPI-FAP07-003, "NRC Event Notification Form," Major Revision 0, Minor Revision 1, transmitted via Attachment 6;
- MP-26-EPI-FAP08, "Evacuation and Assembly," Major Revision 0, Minor Revision 2. Attachment 7 contains a complete copy of Major Revision 0, Minor Revision 2 to MP-26-EPI-FAP08, which includes all the previously approved but undistributed changes associated with Major Revision 0, Minor Revision 1 to MP-26-EPI-FAP08.
- MP-26-EPI-FAP15-001, "DSEO/ADTS Briefing Sheet," Major Revision 0, Minor Revision 1, transmitted via Attachment 8.


A045

There are no regulatory commitments contained within this letter.

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

Very truly yours,

DOMINION NUCLEAR CONNECTICUT, INC.



Raymond P. Necci - Vice President
Nuclear Technical Services/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
P. C. Cataldo, Resident Inspector, Millstone Unit No. 2
D. S. Collins, NRC Project Manager, Millstone Unit No. 2
S. R. Jones, Senior Resident Inspector, Millstone Unit No. 2
V. Nerses, NRC Senior Project Manager, Millstone Unit No. 3
A. C. Cerne, Senior Resident Inspector, Millstone Unit No. 3

Docket Nos. 50-245
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Attachment 1

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

Emergency Plan Procedures

Emergency Procedures Implementing (EPI) Functional Administrative Procedure (FAP)
MP-26-EPI-FAP01-001, "Control Room - Director of Station Emergency Operations
(CR-DSEO)," Major Revision 0, Minor Revision 1

6/27/00
Approval Date

6/30/00
Effective Date

Document Action Request

SPG# 010418-154141

Initiated By: K. Burgess Date: 4/3/01 Department: EPSD Ext.: 2490

Document No.: MP-26-EPI-FAP01-001 Rev. No.: 000 Minor Rev.: 01

Title: Control Room - Director of Station Emergency Operations (CR-DSEO)

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

Address LORT comments

Continued ☐

Instructions:

Replace entire procedure.

Continued ☐

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 ☐ Rejected - See Comments

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

See DC-GDL01 for guidance

☐ TPC ☐ OTC ☐ Place in VOID

☐ Edit Corr.:→

Plant Mngt Staff Member - Approval

Comments:

RI/DPC Print Name and Date

Continued ☐

Reviews	Print	Sign	Date	SQR Qualified			If Comments
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50.54(8)	<input checked="" type="checkbox"/> K. Burgess	K. Burgess	4/26/01	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EP5D	
RCD	<input checked="" type="checkbox"/> K. Burgess	K. Burgess	4/26/01	<input type="checkbox"/>	<input type="checkbox"/>	EP5D	
Independent	<input checked="" type="checkbox"/> T. Rigney	T. Rigney	4/26/01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EP5D	

Safety Evaluation Required ☐ Yes ☒ No

Environmental Review Required ☐ Yes ☒ No

1. ☒ SQR Program Final Review and Approval

Approval ☒ Disapproval ☐

K. Burgess 4/26/01
SQR Qualified Independent Reviewer / Date

Paul A. Blas, DC
Department Head/Responsible Individual

5/2/01
Approval Date

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

Department Head/Responsible Individual / Date

Meeting No.: _____

Approval Signature

Approval Date

Effective Date: 5/9/01

5/2/01
Approval Date

5/9/01
Effective Date

Control Room - Director of Station Emergency Operations (CR-DSEO)

NOTE

If the applicable unit is Unit 1, the Unit 2 SM will classify the event and become the CR-DSEO after being briefed by the Unit 1 SM on the initiating conditions and Unit 1 Emergency Action Level (EAL).

Section A: Emergency Response Immediate Actions

1. Evaluate the conditions using EPI-FAP06, "Classification and PARs."

☐ Notify the SDO and Shift Technician (ST) to report to the control room and provide a briefing. | ①

☐ Review the EAL tables.

☐ IF the event involves Unit 1, Unit 1 SM perform the following:

- Notify the Unit 2 SM of the event in progress.
- Refer To EPI-FAP15-001, "DSEO/ADTS Briefing Sheet," and provide initial briefing on the following items:

Section 1, Event Classification - level and basis

Section 2, Unit Status (EOPs and Security are N/A)

Section 6, Radiological Release

☐ Evaluate the status of the fission product barriers.

2. Declare the emergency.

☐ Announce the emergency declaration level and time to the CR staff and assume the role of CR-DSEO.

NOTE

Offsite notification shall be accomplished within 15 minutes of an emergency event classification. | ①

☐ Direct the ST to initiate offsite notifications per EPI-FAP07, "Notifications and Communications."

3. Go To the applicable section and perform the immediate actions.

☐ Unusual Event Section B

☐ Alert..... Section C

☐ Site Area Emergency..... Section D

☐ General Emergency Section E

Section B: Unusual Event Immediate Actions

NOTE

During a security event, it may be advisable **NOT** to sound an alarm or make a PA announcement.

1. Station Notification

- ☐ Notify the unaffected unit control rooms of the event.
- ☐ Activate the outside speakers.
- ☐ Review the wording for the station notification message and announce the following over the station PA system:

Attention all personnel; attention all personnel. An Unusual Event has been declared at (Unit #) due to (brief description of event). All members of the SERO stand by for further instructions. All other personnel continue with your present duties.

- ☐ Repeat the PA message.
- ☐ Log time of announcement.

2. SERO Activation/State Notification

- ☐ Review and approve the Incident Report Form (IRF) for transmittal.

3. NRC Notification

- ☐ Direct the SDO to notify the NRC via the ENS.
- ☐ Verify the ST or SDO has contacted the resident inspector.

Section C: Alert Immediate Actions

NOTE

Hazardous conditions may impact the ability to move personnel. If hazardous conditions exist, it may be better to shelter non-essential personnel onsite.

During a security event, it may be advisable **NOT** to sound an alarm or make a PA announcement.

1. Station Notification

- ☐ Notify the unaffected unit control rooms of the event.
- ☐ Request Security to restrict site access.
- ☐ Activate the outside speakers.
- ☐ Review the wording for the station notification message and announce the following over the station PA system:

Attention all personnel; attention all personnel. An Alert has been declared at (Unit #) due to (brief description of event). All SERO members report to your designated emergency response facility.

- ☐ Repeat the PA message.
- ☐ Log time of announcement.

2. SERO Activation/State Notification

- ☐ Review and approve the Incident Report Form (IRF) for transmittal.

3. NRC Notification

- ☐ Direct the SDO to notify the NRC via the ENS.
- ☐ Verify the ST or SDO has contacted the resident inspector.

4. Precautionary Dismissal

- ☐ Refer to EPI-FAP08, "Evacuation and Assembly," and conduct a precautionary dismissal as events warrant.

Section D: Site Area Emergency Immediate Actions

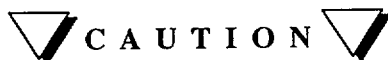
NOTE

Hazardous conditions may impact the ability to move personnel. If hazardous conditions exist, it may be better to shelter non-essential personnel onsite.

During a security event, it may be advisable **NOT** to sound an alarm or make a PA announcement.

1. Station Notification

- ☐ Notify the unaffected unit control rooms of the event.
- ☐ Request Security to restrict site access.
- ☐ Activate the outside speakers.



Implementation of evacuation shall not be delayed once the station notification has been made.

- ☐ Review the wording for the station notification message and announce the following over the station PA system:

Attention all personnel; attention all personnel. A Site Area Emergency has been declared at (Unit # _____) due to (brief description of event _____). All on-duty SERO members report to your designated emergency response facility. All off-duty SERO members report to your designated Assembly Area.

- ☐ Repeat the PA message.
- ☐ Refer To EPI-FAP08, "Evacuation and Assembly," and conduct evacuation.
- ☐ Log time of announcement.

2. SERO Activation/State Notification

- ☐ Review and approve the Incident Report Form (IRF) for transmittal.

3. NRC Notification

- ☐ Direct the SDO to notify the NRC via the ENS.
- ☐ Verify the ST or SDO has contacted the resident inspector.

Section E: General Emergency Immediate Actions

NOTE

Hazardous conditions may impact the ability to move personnel. If hazardous conditions exist, it may be better to shelter non-essential personnel onsite.

During a security event, it may be advisable **NOT** to sound an alarm or make a PA announcement.

1. Station Notification

- ☐ Notify the unaffected unit control rooms of the event.
- ☐ Request Security to restrict site access.
- ☐ Activate the outside speakers.

CAUTION

Implementation of evacuation shall not be delayed once the station notification has been made.

- ☐ Review the wording for the station notification message and announce the following over the station PA system:

Attention all personnel; attention all personnel. A General Emergency has been declared at (Unit # _____) due to (brief description of event _____). All on-duty SERO members report to your designated emergency response facility. All off-duty SERO members report to your designated Assembly Area.

- ☐ Repeat the PA message.
- ☐ Refer To EPI-FAP08, "Evacuation and Assembly," and conduct evacuation.
- ☐ Log time of announcement.

2. SERO Activation/State Notification

- ☐ Review and approve the Incident Report Form (IRF) for transmittal.
- ☐ Review and develop PARs in accordance with EPI-FAP06, "Classification and PARs."

Section E: General Emergency Immediate Actions

3. NRC Notification

- ☐ Direct the SDO to notify the NRC via the ENS.
- ☐ Verify the ST or SDO has contacted the resident inspector.

Section F: Routine and Follow-up Activities

NOTE

The initial stages of any emergency may require CR personnel to perform several required tasks. If necessary, the CR-DSEO has the authority to reassign tasks (other than classification, PARs, and emergency exposure dose extensions) to other available CR individuals.

- ☐ 1. Log all activities and decisions.
- ☐ 2. IF a release of radioactive material is in progress or is imminent, direct the Chemistry Technician to perform initial on-shift dose assessment.
- ☐ 3. Continuously evaluate or direct the evaluation of the EAL tables and fission product barriers for changes in event status.
- ☐ 4. Ensure the NRC is notified within 60 minutes of any event classification and whenever significant changes in conditions occur during the emergency.
- ☐ 5. Ensure follow-up notifications are routinely provided to the State and local agencies as appropriate.
- ☐ 6. IF the status of the fission product barriers or offsite radiological or meteorological conditions change, perform the following:
 - Evaluate the impact on PARs per EPI-FAP06, "Classification and PARs."
 - Provide changes to PARs to the State, as appropriate (non-delegable).
- ☐ 7. IF necessary, authorize extended emergency exposure limits (dose > 5 Rem is expected) and log any extensions.
- ☐ 8. IF suspension of safeguards and §50.54(x) action is invoked, ensure that the NRC is notified of the departure as soon as possible (but within one hour) using the ENS.
- ☐ 9. Direct the RMT #1 to perform control room and plant habitability surveys and sampling.
- ☐ 10. IF necessary, issue KI tablets and log time of issue.
- ☐ 11. Conduct periodic briefings with the control room staff.
- ☐ 12. IF events have been controlled to the point where termination of the emergency can be considered, Refer To EPI-FAP06, "Classification and PARs," for guidance.

Section G: Transfer of Command and Control

NOTE

Activation of the EOF and TSC/OSC should occur within 60 minutes of SERO notification.

The control room may transfer certain response functions (such as team dispatch, notification, etc.) to TSC or EOF individuals before the facilities are declared activated, provided command and control is maintained by the CR-DSEO.

Briefings to the ADTS and the on-call DSEO shall be conducted at the same time.

- ☐ 1. Simultaneously brief the DSEO and the ADTS using EPI-FAP15-001, "DSEO/ADTS Briefing Sheet" as a guide.
- ☐ 2. IF a Unit 1 event, ensure the Unit 1 SM is part of the turnover, and simultaneously brief the DSEO and ADTS using EPI-FAP15-001, "DSEO/ADTS Briefing Sheet."

①

NOTE

For a Unit 1 event, the Unit 1 SM becomes the MCRO after a final turnover has been performed with the Unit 2 SM. The Unit 2 SM will have no further responsibilities in the event.

- ☐ 3. IF a Unit 1 event, perform a final turnover with the Unit 1 SM.
- ☐ 4. Upon formal relief by the DSEO, record turnover date and time in the logbook.
- ☐ 5. Go To EPI-FAP01-002, "Manager of Control Room Operations."

Prepared by: _____
Signature Print Date

Docket Nos. 50-245
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Attachment 2

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

Emergency Plan Procedures

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

MP-26-EPI-FAP04, "Emergency Operations Facility Activation and Operation"

Major Revision 0, Minor Revision 2

6/27/00
Approval Date

6/30/00
Effective Date

Document Action Request

SPG#

010418-152543

Initiated By: K. Burgess Date: 4/3/01 Department: EPSD Ext.: 2490

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

Title: Emergency Operations Facility Activation and Operation

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

To correct a reference

Continued ☐

Instructions:

Continued ☐

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 ☐ Rejected - See Comments

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

See DC-GDL01 for guidance

☐ TPC ☐ OTC ☐ Place in VOID

☒ Edit Corr.⇒

Paul A. Blasich 4/20/01
Plant Mngt Staff Member - Approval

Comments:

RI/DPC Print Name and Date

Continued ☐

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

Safety Evaluation Required ☐ Yes ☐ No

Environmental Review Required ☐ Yes ☐ No

1. ☐ SQR Program Final Review and Approval

Approval ☐ Disapproval ☐

SQR Qualified Independent Reviewer / Date

Department Head/Responsible Individual

Approval Date

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

Department Head/Responsible Individual / Date

Meeting No.: _____

Approval Signature

Approval Date

Effective Date: 4/26/01

**Functional
Administrative
Procedure**



**Emergency Operations Facility
Activation and Operation**

MP-26-EPI-FAP04

Rev. 000-02

Approval Date: 4/20/01

Effective Date: 4/26/01



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MP-26-EPI-FAP04-001, "Director of Station Emergency Operations (DSEO)"	
MP-26-EPI-FAP04-002, "Assistant Director Emergency Operations Facility (ADEOF)"	
MP-26-EPI-FAP04-003, "Manager Radiological Dose Assessment (MRDA)"	
MP-26-EPI-FAP04-004, "Assistant Manager Radiological Dose Assessment (AMRDA)"	
MP-26-EPI-FAP04-005, "Radiological Assessment Engineer (RAE)"	
MP-26-EPI-FAP04-006, "Field Team Data Coordinator (FTDC)"	
MP-26-EPI-FAP04-007, "Radiation Monitoring Team #3, #4, #5"	
MP-26-EPI-FAP04-008, "Radiological Communicator - EOF"	
MP-26-EPI-FAP04-009, "EOF HP Technician	
MP-26-EPI-FAP04-010, "Meteorological Assistant"	
MP-26-EPI-FAP04-011, "Manager of Resources (MOR) or External Resources Coordinator (ERC)"	
MP-26-EPI-FAP04-012, "Manager of Public Information (MPI)"	
MP-26-EPI-FAP04-013, "Manager of Communications (MOC)"	
MP-26-EPI-FAP04-014, "Technical Information Communicator (TIC)"	
MP-26-EPI-FAP04-015, "EOF Shift Technician (EOF-ST)"	
MP-26-EPI-FAP04-016, "Station Emergency Preparedness Representative (SEPR)"	
MP-26-EPI-FAP04-017, "Regulatory Liaison"	

1. PURPOSE

1.1 Objective

This procedure provides guidance to Station Emergency Response Organization (SERO) personnel who report to the Emergency Operations Facility (EOF) during an event.

1.2 Applicability

Activation of the EOF is initiated upon declaration of an ALERT, Posture Code Charlie-One, or higher event.

1.3 Supporting Documents

EPI-FAP01, "Control Room Emergency Operations"

EPI-FAP06, "Classification and PARs"

EPI-FAP07, "Notifications and Communications"

EPI-FAP08, "Evacuation and Assembly"

EPI-FAP09, "Radiation Exposure Controls"

EPI-FAP10, "Dose Assessment"

EPI-FAP11, "Core Damage Assessment"

EPI-FAP13, "News Releases"

EPI-FAP15, "Common Forms"

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

Meteorological Reference Manual for Support of Nuclear Plant Emergencies.

1.4 Discussion

1.4.1 Facility Activation

Facility activation should occur within 60 minutes of the time the SERO was notified. The EOF can be declared activated when the DSEO has relieved the Shift Manager of command and control responsibilities AND minimum staffing requirements are met.

The DSEO has the discretion to relieve the CR-DSEO and authorize ERF activation with less than minimum staffing provided necessary functional areas are filled.

1.4.2 The major activities associated with the EOF are as follows:

- Event Classification and PARs- EPI-FAP06
- Event Notification and Communications - EPI-FAP07
- Radiological Dose Assessment/Sampling
- Exposure Control - EPI-FAP09
- Resources
- Rumor Control and News Releases - EPI-FAP13
- Coordination of Outside Agencies
- Recovery - EPI-FAP14

1.4.3 10 CFR 50.54(x) Invocation

- a. As discussed in the Statements of Consideration to 10 CFR Part 50, emergencies can arise during which compliance with a license condition or a Technical Specification could prevent necessary action by the licensee to protect the public health and safety. Absolute compliance with the license during these emergencies can be a barrier to effective protective action.
- b. Unanticipated circumstances can occur during the course of an emergency which may call for responses different from any previously considered during the course of licensing. Special circumstances requiring a deviation from license requirements are not necessarily limited to transients or accidents not analyzed in the licensing process. Special circumstances can arise during emergencies involving multiple equipment failures or coincident accidents where plant emergency procedures could be in conflict with or not applicable to the circumstances. In addition, an accident can take a course different from that which was addressed when the emergency procedure was written, thus requiring a protective response at variance with a procedure required to be followed by the licensee which may ultimately be contrary to current Technical Specifications or the license condition.
- c. 10 CFR 50.54(x) will permit the licensee to take reasonable action in an emergency even though the action departs from licensing conditions or plant Technical Specifications. This action may only be taken however, if the following criteria are met:
 - The action is immediately needed to protect the public health and safety, including plant personnel.
 - No action consistent with the license conditions and Technical Specifications is immediately apparent that can provide adequate or equivalent protection.
 - As a minimum, a licensed senior operator approves the action.

d. Applicability Determination

The NRC can amend Technical Specifications or license conditions. The §50.54(x) regulation is not intended to apply in circumstances where time allows this normal process to be followed. The regulation applies only to those emergency situations in which immediate action is required by the licensee to protect public health and safety and this action is contrary to a Technical Specification or license condition.

Operating outside the boundaries of approved procedures or in the absence of procedures does not in and of itself meet the threshold for invocation of §50.54(x). Also, the existence of a safety analysis (§50.59) conducted for the purpose of determining whether an unreviewed safety question exists is not sufficient to determine whether application of §50.54(x) is appropriate. §50.54(x) is not intended for use as a general regulatory protective shield for all actions not addressed by current procedures. Even after §50.54(x) has been invoked, each subsequent action taken must be evaluated for §50.54(x) applicability with all necessary approvals and notifications being made for each invocation, as appropriate.

Additionally, the §50.54(x) and (y) amendments were not written for the purpose of establishing procedures and guidance (such as SAMG) that may be useful at some future date (e.g., preplanning and contingency actions). The determination to discontinue following plant operating procedures and/or EOPS, and to begin following SAMG, by itself, does not constitute a departure from a license condition or Technical Specification and, therefore, does not require invocation of §50.54(x). Note however, it is possible that the first action directed during SAMG implementation may actually require §50.54(x) invocation.

The threshold for invocation is met only if the action being taken is not consistent with current license conditions and Technical Specifications. Additionally, the action must meet the time and safety dependent criteria previously discussed. Then and only then should the invocation of §50.54(x) be considered for approval.

e. Approval

A licensed senior operator position is the minimum level within the organization, not the only position, authorized to approve invocation of §50.54(x). 10 CFR 50.54(y) states, "Licensee action permitted by paragraph (x) of this section shall be approved, as a minimum, by a licensed senior operator..." This wording makes it clear that such action must be approved by at least a licensed senior operator acting for the licensee. The regulation focuses on the responsibilities of facility licensees and only peripherally includes licensed senior operators. Under the provision any licensed senior operator (licensed for the Unit involved) would be sufficient. However, during declared emergencies more senior licensee personnel would eventually become available. The decision to depart from the license would then pass to these more senior personnel already identified in the Emergency Plan.

Ultimate responsibility for the health and safety of the general public and station personnel in an emergency resides in the highest authority in the chain of command. The persons responsible for the health and safety of the general public and station personnel are already identified in the facility license and implementing procedures. These persons include the ADTS and the DSEO following emergency response facility activation. If however, an emergency should occur on a backshift, no licensee representative higher than a licensed senior operator in the chain of command is likely to be available. Therefore, the departure from a license condition or Technical Specification requires the approval of a licensed senior operator as a minimum.

To require any additional approvals or concurrence, such as from senior licensee representatives or the NRC, would defeat the purpose of §50.54(x). Concurrence or approval from the NRC is also not necessary, as this action would amount to a license amendment using procedures contrary to those existing for amendments. NRC concurrence would additionally shift the burden of responsibility for station safety from the licensee to the NRC.

f. Reportability

Deviations authorized pursuant to 10 CFR 50.54(x) are reportable as soon as practical and in all cases within one hour under 10 CFR 50.72(b)(1), or 10 CFR 50.73(a)(2)(i)(C), if not reported simultaneously with emergency notification under 10 CFR 50.72(a). When time permits, the notification is made before the protective action is taken; otherwise, it is made as soon as possible thereafter. Additionally, a Licensee Event Report will be generated and submitted to the NRC within 30 days.

g. Subsequent Actions

Following invocation of 50.54(x) and notification of the NRC, actions are taken as soon as practical to restore the plant to full compliance with Technical Specifications and all conditions of license.

1.4.4 Off-Site Radiological Communications

The radio control console located in the Radiological Dose Assessment Area will be used to support MRDA communications. The FTDC and the off-site RMTs will use this radio net to communicate radiation findings. The RMT vehicles maintained at the EOF are equipped with permanently mounted radios. The radio console at the EOF is monitored by the FTDC. Spare portable radios are stored at the EOF to issue to additional field teams or replace vehicle radios that malfunction.

Off-site teams may be assigned to monitor and report dose assessment findings which occur over water (Long Island Sound). RMT radios which operate on the off-site radiological communications frequency are installed in the Millstone Environmental boat.

1.4.5 Off-Site Radiological Monitoring

Off-site RMTs obtain samples for airborne radioactive contaminants and radiation dose rates for specific points and areas outside the Millstone Station protected area. Off-site RMTs are controlled by the MRDA, who transfers all or portions of this responsibility to the AMRDA or FTDC upon their arrival in the EOF. The goal of the FTDC or designee is to ensure the RMTs are deployed within 60 minutes of event notification.

The RMTs provide the off-site survey information necessary for the plume phase. Environmental Services and HP field teams perform environmental sampling during the intermediate and relocation/ingestion pathway phases. The thermoluminescent dosimeters (TLD) and air filters can also provide information to help determine the past integrated dose.

I ①

- 1.4.6 Definitions and abbreviation are contained in Attachment 1. Responsibilities are contained in Attachment 2.

2. INSTRUCTIONS

2.1 Refer To and complete the following, as applicable:

NOTE

The steps in the checklists may be performed in any order, or more than once, as necessary.

- EPI-FAP04-001, "Director of Station Emergency Operations (DSEO)"
- EPI-FAP04-002, "Assistant Director Emergency Operations Facility (ADEOF)"
- EPI-FAP04-003, "Manager Radiological Dose Assessment (MRDA)"
- EPI-FAP04-004, "Assistant Manager Radiological Dose Assessment (AMRDA)"
- EPI-FAP04-005, "Radiological Assessment Engineer (RAE)"
- EPI-FAP04-006, "Field Team Data Coordinator (FTDC)"
- EPI-FAP04-007, "Radiation Monitoring Team #3, #4, #5"
- EPI-FAP04-008, "Radiological Communicator - EOF"
- EPI-FAP04-009, "EOF HP Technician"
- EPI-FAP04-010, "Meteorological Assistant"
- EPI-FAP04-011, "Manager of Resources (MOR) or External Resources Coordinator (ERC)"
- EPI-FAP04-012, "Manager of Public Information (MPI)"
- EPI-FAP04-013, "Manager of Communications (MOC)"
- EPI-FAP04-014, "Technical Information Communicator (TIC)"
- EPI-FAP04-015, "EOF Shift Technician (EOF-ST)"
- EPI-FAP04-016, "Station Emergency Preparedness Representative (SEPR)"
- EPI-FAP04-017, "Regulatory Liaison"
- EPI-FAP04-01, "Director of Station Emergency Operations (DSEO)"
- EPI-FAP04-02, "Assistant Director Emergency Operations Facility (ADEOF)"

- EPI-FAP04-03, "Manager of Radiological Dose Assessment (MRDA)"
- EPI-FAP04-04, "Assistant Manager of Radiological Dose Assessment (AMRDA)"
- EPI-FAP04-05, "Radiological Assessment Engineer (RAE)"
- EPI-FAP04-06, "Field Team Data Coordinator FTDC)"
- EPI-FAP04-07, "Radiation Monitoring Team #3, #4, #5"
- EPI-FAP04-08, "Radiological Communicator - EOF"
- EPI-FAP04-09, "EOF HP Technician
- EPI-FAP04-10, "Meteorological Assistant"
- EPI-FAP04-11, "Manager of Resources/External Resources Coordinator (MOR/ERC)"
- EPI-FAP04-12, "Manager of Public Information (MPI)"
- EPI-FAP04-13, "Manager of Communications (MOC)"
- EPI-FAP04-14, "Technical Information Communicator (TIC)"
- EPI-FAP04-15, "EOF Shift Technician"
- EPI-FAP04-16, "Station Emergency Preparedness Representative (SEPR)"
- EPI-FAP04-17, "Regulatory Liaison"

2.2 IF an action is not appropriate under existing conditions or was not necessary for the event, enter N/A when completing documentation for submittal.

3. SUMMARY OF CHANGES

Revision 000-02

- 3.1 Changed 10CFR50.72(b)(1)(i)(B) to 10CFR50.72(b)(1) in step 1.4.3.f.

Revision 000-01

- 3.2 Added information to step 1.4.5 to clarify that HP field teams perform environmental sampling.
- 3.3 Added information to Attachment 2 to clarify that field measurements and off-site surveys are radiological and environmental.
- 3.4 Added information to Attachment 2 to clarify that corporate off-site resources may be obtained by the Manager of Resources and External Resources Coordinator.
- 3.5 Added steps to EPI-FAP04-001, "Director of Station Emergency Operations," to inform the Richmond Corporate Executive of the event and periodically provide updates.
- 3.6 Added information to EPI-FAP04-003, "Manager of Radiological Dose Assessment," to clarify that Environmental Services or HP perform environmental sampling.
- 3.7 Added step to EPI-FAP04-004, "Assistant Manager of Radiological Dose Assessment," to develop an environmental sampling strategy.
- 3.8 Modified EPI-FAP04-006, "Field Team Data Coordinator," as follows:
- Added step to develop an environmental sampling strategy using the recommendations of the MRDA, AMRDA, RAE, or MET Assistant.
 - Added information for the FTDC to transfer information to the RAE.
 - Added new Section D, "Environmental Sampling - Team Deployment."
- 3.9 Added references to the Richmond Corporate Operations Center in EPI-FAP04-011, "Manager of Resources."
- 3.10 Added Unit MOC and Unit TIC to the listing of augmented staffing subject to call in EPI-FAP04-011, "Manager of Resources."
- 3.11 Deleted references to the NU General Offices and Customer Services in EPI-FAP04-012, "Manager of Public Information."

Attachment 1

Definitions and Abbreviations

(Sheet 1 of 3)

Definitions

Alpha or Bravo Posture Code - A State response code that has expected or existing plant conditions relative to a radiological release as its basis. A technical basis for developing a PAR as a result of an EAL classification for all events short of the loss of all three fission product barriers, or high containment radiation.

Calculated Dose Rate (units of mRem/hr or Rem/hr) - A dose rate calculated for actual releases based on measured exposure rates from effluent monitor or survey readings (units of mR/hr or R/hr).

CDE - Committed Dose Equivalent for the thyroid (usually in units of Rem).

Measured Exposure Rate - Exposure rate based on field survey results (units of mR/hr or R/hr).

Operations Net - A communications network established for the TSC-SM, CRDC, TA, and TIC to apprise all Emergency Response Facilities of plant status and fast-breaking events; provide operational and technical input; and assist with classification.

Plant Conditions - A technical basis for developing a PAR as a result of actual or imminent loss of all three fission product barriers, or based on high containment radiation levels.

Precautionary Dismissal - A precautionary release of non-SERO individuals from the site conducted at the ALERT classification.

Protective Action Recommendation (PAR) - A recommended course of action to take that affects the general population. Issued to state and local decision makers for their consideration in making a protective action decision.

Projected Dose - A calculated exposure received over the duration of the accident. A technical basis for developing a PAR as a result of an ongoing radiological release that is projected on either a measured exposure rate, or a calculated exposure rate for an expected release (units of Rem).

TEDE - Total Effective Dose Equivalent (usually in units of Rem).

"What If" Dose - A theoretical dose projection based on the premise that the accident sequence in progress will result in the partial or total release of an assumed quantity of core inventory (usually in units of Rem).

Wind Direction - The three digit number indicating the degree bearing (000 and 360 being north, 180 being south) from which the wind is coming at the release elevation (Changes in wind direction may constitute the technical basis for updating a PAR).

Attachment 1

Definitions and Abbreviations

(Sheet 2 of 3)

Abbreviations

ADEOF - Assistant Director Emergency Operations Facility

ADTS - Assistant Director Technical Support

AMRDA - Assistant Manager Radiological Dose Assessment

AMT - Accident Management Team

AMTL - Accident Management Team Leader

CAS - Central Alarm Station

CBETS - Computer Based Exposure Tracking System

CTMT - Containment

DEP - Department of Environmental Protection

DSEO - Director of Station Emergency Operations

EAL - Emergency Action Level

EAS - Emergency Alerting System

EDAN - Environmental Data Acquisition Network

EPZ - Emergency Planning Zone

ERC - External Resource Coordinator

ERDS - Emergency Response Data System

FTDC - Field Team Data Coordinator

JMC - Joint Media Center

KI - Potassium Iodide

MCRO - Manager of Control Room Operations

MOC - Manager of Communications

MOR - Manager of Resources

Attachment 1

Definitions and Abbreviations

(Sheet 3 of 3)

MPI - Manager of Public Information

MRDA - Manager of Radiological Dose Assessment

MTSC - Manager of Technical Support Center

NNM - Nuclear News Manager

OFIS - Off-Site Facility Information System

PAG - Protective Action Guideline

PAR - Protective Action Recommendation

PASS - Post Accident Sampling System

RAE - Radiological Assessment Engineer

RCS - Reactor Coolant System

RICC - Rumor and Inquiry Control Center

RMT - Radiological Monitoring Team

RDAT - Radiological Dose Assessment Team

SDO - Station Duty Officer

ST - Shift Technician

TEDE - Total Effective Dose Equivalent

TIC - Technical Information Coordinator

Attachment 2 Responsibilities

(Sheet 1 of 4)

1. Director of Station Emergency Operations (DSEO)

After formally relieving the CR DSEO, the DSEO is responsible for the following non-delegable emergency response functions:

- Overall command and control of the station's emergency response.
- Event classification.
- General public Protective Action Recommendations to offsite officials.
- Formal off-site notification approval.
- Emergency exposure extension authorization.
- News release approval.
- Federal assistance to support station response.

2. Assistant Director Emergency Operations Facility (ADEOF)

The ADEOF reports to the DSEO. The ADEOF is responsible for the following:

- Providing input for classification changes based on radiological conditions.
- Developing, recommending, and updating off-site PARs to the DSEO.
- Providing input for notification upgrades, updates, and termination, as necessary.
- Approving emergency exposure upgrades in excess of 10 CFR 20 limits.
- Authorizing potassium iodide (KI) for off-site personnel SERO personnel (e.g., Radiation Monitoring Teams).
- Overseeing off-site radiological assessment of the event.
- Coordinating communications of plant status to the NRC, State, and public.
- Authorizing contaminated personnel to leave the station.
- Reviewing news releases.
- Assuming DSEO responsibilities if DSEO becomes incapacitated.

Attachment 2 Responsibilities

(Sheet 2 of 4)

3. Manager of Radiological Dose Assessment (MRDA)

The MRDA reports to the ADEOF. The MRDA is responsible for the off-site dose assessment activities. This includes the following activities:

- Monitoring radiological conditions beyond the protected area and ensuring recommended protective actions provided to State officials are adequate to protect public health and safety in accordance with US EPA guidance.
- Providing key information to the ADEOF and DSEO that may influence classification as well as protective action decision making.
- Assessing radiological plant conditions and alert the ADEOF and DSEO when information indicates there has been a significant change.
- Assessing the source term, determining the radiological release pathway, and obtaining meteorological data applicable to an actual or potential radiological release.
- Directing radiological and environmental field measurements be obtained. | ①
- Directing dose assessment be performed.
- Directing core damage estimates be performed.
- Communicating with State dose assessment staff.
- Communicating with NRC dose assessment staff using the HPN circuit.
- Coordinating field team activities with the State DEP.

4. Assistant Manager, Radiological Dose Assessment (AMRDA)

Two AMRDAs report to the MRDA. They assist the MRDA as directed with dose assessment, RDA strategies, HPN communications, etc.

5. Radiological Assessment Engineer (RAE)

The RAE reports to the MRDA in the EOF. Duties include evaluating actual and potential releases of radioactive material, and performing dose assessment calculations.

6. Field Team Data Coordinator (FTDC)

The FTDC reports to the MRDA in the EOF. Duties include coordinating the activities of the off-site RMTs, and distributing off-site RMT data.

7. Radiological Monitoring Teams #3, #4, #5 (RMT)

The RMTs report to the FTDC in the EOF. Duties include performing surveys and samples.

Attachment 2 Responsibilities

(Sheet 3 of 4)

8. Radiological Communicator

The Radiological Communicator reports to the MRDA. Duties include obtaining information on radiological conditions inside the protected area which may impact offsite monitoring and tracking activities.

9. Meteorological Assistant

The Meteorological Assistant reports to the MRDA. Duties include obtaining and preparing current meteorological data and providing forecast information and technical input in matters involving meteorology.

10. Manager of Resources (MOR)

The MOR reports to the ADEOF. The MOR is responsible for the following:

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

11. External Resources Coordinator (ERC)

The ERC reports to the MOR. The ERC assists the MOR in coordinating and obtaining corporate and off-site resources (e.g., personnel, equipment, housing, food, purchasing, and financial and legal services) needed to support the site.

12. Manager of Public Information (MPI)

The MPI reports to the ADEOF in the EOF. The MPI is responsible for the following:

- Collecting information regarding the event
- Providing input for news releases
- Monitoring media activities
- Supporting the Nuclear News Manager, located at the Hartford Armory

13. Manager of Communications (MOC)

The MOC reports to the ADEOF in the EOF. The MOC is responsible for coordinating all EOF communications which includes Emergency Notification System (ENS) communications between the station and the NRC.

Attachment 2 Responsibilities

(Sheet 4 of 4)

14. Technical Information Communicator (TIC)

The TIC performs actions at the direction of the DSEO. The TIC is responsible for the following:

- Operating OFIS
- Providing requested plant parameter data
- Informing DSEO/ADEOF of critical parameters impacting classification and PARs
- Maintaining chronology of key events status board
- Obtaining data from the CRDC, as necessary
- Providing information to the State EOC Technical Assistant and the TSC Staff, as requested.

15. EOF Health Physics (HP) Technician

The EOF HP Technician reports to the MRDA. The EOF HP Technician is responsible for providing HP support to the EOF.

16. EOF Shift Technician

The EOF Shift Technician reports to the ADEOF in the EOF. The EOF Shift Technician is responsible for notifying state and local officials, as directed.

17. Regulatory Liaison

The Regulatory Liaison reports to the ADEOF. The Regulatory Liaison is responsible for accommodating the NRC Site Team dispatched to the station, arranging site access for the NRC Team, providing adequate dosimetry, and responding to questions and comments.

Docket Nos. 50-245
50-336
50-423
B18410

Attachment 3

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

Emergency Plan Procedures

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

MP-26-EPI-FAP04-010, "Meteorological Assistant"

Major Revision 0, Minor Revision 1

6/27/00
Approval Date

6/30/00
Effective Date

Document Action Request

SPG# 010427-095820

Initiated By: K. Burgess Date: 4/26/01 Department: EPSD Ext.: 2490

Document No.: MP-26-EPI-FAP04-010 Rev. No.: 000 Minor Rev.: 01

Title: Meteorological Assistant

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

Address LORT comment.

Continued ☐

Instructions:

Replace entire document

Continued ☐

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 ☐ Rejected - See Comments

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

See DC-GDL01 for guidance

☐ TPC ☐ OTC ☐ Place in VOID

☒ Edit Corr. =>

Paul D. Bawdi 4/30/01
Plant Mngt Staff Member - Approval

Comments:

KR Burgess

4/26/01

RI/DPC Print Name and Date

Continued ☐

Reviews	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"/>		
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RCD	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		
Independent	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		

Safety Evaluation Required ☐ Yes ☐ No

Environmental Review Required ☐ Yes ☐ No

1. ☐ SQR Program Final Review and Approval

Approval ☐ Disapproval ☐

SQR Qualified Independent Reviewer / Date

Department Head/Responsible Individual

Approval Date

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

Department Head/Responsible Individual / Date

Meeting No.: _____

Approval Signature

Approval Date

Effective Date: 5/4/01

4/30/01
Approval Date

5/4/01
Effective Date

Meteorological Assistant

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

Section A: Initial Actions

- ☐ 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 update of event conditions and status.
- ☐ 3. Maintain a log of significant events and communications on the SERO Log Sheet.
- ☐ 4. Determine correct MET tower level for the event.
- ☐ 5. Using EDAN terminal, obtain and review MET data.
- ☐ 6. Determine if any instrumentation is inoperable and brief the MRDA as necessary.
- ☐ 7. Contact contracted weather service regarding current MET data and request a forecast.
- ☐ 8. Refer To Section F, "Meteorological Data Sheet," and record MET data.
- ☐ 9. Brief the MRDA on current meteorological conditions and weather forecasts.
- ☐ 10. Distribute Section F, "Meteorological Data Sheet," to the MRDA, ADEOF, RAE, FTDC, TSC/OSC (fax), OSC AA (fax), and State EOC (fax).
- ☐ 11. Brief all recipients, as necessary.
- ☐ 12. Post MET data and forecast information on the Radiological Emergency Status Board.

Section B: Maintaining Meteorological Communications

- ☐ 1. Consult contracted weather meteorologist to ensure the following:
 - Proper mutual understanding of forecast
 - Site micro-meteorology
 - Synoptic conditions

Section B: Maintaining Meteorological Communications

- ☐ 2. Brief MRDA on possibility of severe weather (e.g., severe thunderstorms, tornadoes, lightning, ice storms, blizzard conditions, etc.), as necessary.
- ☐ 3. Fax Section F, "Meteorological Data Sheet," to the TSC/OSC and OSC AA every 15 minutes or upon update.
- ☐ 4. Evaluate actual changes in wind direction which affect the geographic zones within the 10 mile EPZ and inform the ADEOF:

Bearings affecting PARs out to 5 miles

<u>Direction</u>	<u>Zones to Evacuate</u>
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

Bearings affecting PARs out to 10 miles

<u>Direction</u>	<u>Zones to Evacuate</u>
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

Section B: Maintaining Meteorological Communications

- ☐ 5. IF all sea breeze fumigation criteria are met as shown in Table 1, inform MRDA that calculations should be amended for fumigation conditions.

Table 1 Sea Breeze Fumigation Criteria for MILLSTONE Station	
Air mass significantly warmer than water temperature.	Date between 3/15 and 9/15
On-shore wind at coast.	101° degrees <WD< 259° degrees
Cool, stable layer near ground at coast.	Delta T @ 142 feet > -0.2° C/> -0.4° F
Solar radiation at coast adequate for land surface heating.	Millstone SOLAR > 0.5 ly/min.
Solar radiation inland adequate to maintain surface heating.	SOLAR > 0.5 ly/min.

- ☐ 6. Refer To Section F, "Meteorological Data Sheet," and record any items of special significance (i.e., high degree of uncertainty regarding accuracy of either measured data or forecasts, or possibility of sea breeze fumigation or recirculation).

Section C: Maintaining Meteorological Data Availability

- ☐ 1. IF MET data is *not* available from first EDAN link, obtain data using any of the other EDAN data links.
- ☐ 2. IF EDAN system component fails or malfunctions, notify IT help desk.
- ☐ 3. IF either primary or backup MET system is out of service due to instrument maintenance or similar cause, OR data is available but invalid or anomalous, notify personnel and MOR to correct problem.
- ☐ 4. IF data is *not* available through an EDAN channel, obtain data from any of the following:
- Control Room / Unit 3 plant process computer (via MRDA, CRDC)
 - Met tower data shack (via request to DSEO, MOSC)
 - Unit 3 OFIS
 - 10m mast data shack (via request to DSEO)
 - Weather service contractor
 - Other appropriate source

Section C: Maintaining Meteorological Data Availability

- ☐ 5. IF using data from backup source, Refer To the "Meteorological Team Reference Manual for Support of Nuclear Plant Emergencies," and perform the following, as applicable:
- Calculate wind speed data and delta temperature data by extrapolation to appropriate site tower measurement height.
 - Assign delta temperature value to stability class.
 - Record wind direction data directly

Section D: Turnover During Protracted Facility Operations

- ☐ 1. Request the MOR notify additional Met Assistants to stand by or remain available as necessary.
- ☐ 2. Brief relief on the following:
- Past and current weather conditions
 - Current forecast and items of special note or meteorological uncertainties
 - EDAN status
 - Data source, if other than EDAN
 - Weather service/external information sources status
 - Log entries including the following:
 - ⇒ MRDA instructions
 - ⇒ Significant communications (e.g., NRC and other agencies)
 - ⇒ Special telephone numbers

Section E: Recurring Actions

- ☐ 1. Update MET data at approximately 15 minute intervals and weather forecasts at approximately 1 hour intervals.
- ☐ 2. Log significant events and activities.
- ☐ 3. Check appropriate MET tower level data in use.

Prepared by: _____

Signature	Print	Date
-----------	-------	------

Section F: Meteorological Data Sheet

Current Met Tower Data at Date: _____ Time: _____ Appropriate Tower Level: _____

AT033 (°C)	WD033 (deg)	WS033 (m/s)	WD142 (deg)	WS142 (m/s)	DT142 (°C)	STAB 142	WD374 (deg)	WS 374 (m/s)	DT 374 (°C)	STAB 374	Precip Type	Precip Intens	Into Sect

Forecast for Site

For Periods: From: To:	AT033 (°C)	WD033 (deg)	WS033 (m/s)	WD142 (deg)	WS142 (m/s)	WD374 (deg)	WS374 (m/s)	Stability Class	Cloud Cover	Precip Type	Precip Intens	Into Sect
To												
To												
To												
To												
To												

Plain Language Version of Above Data for Public Dissemination

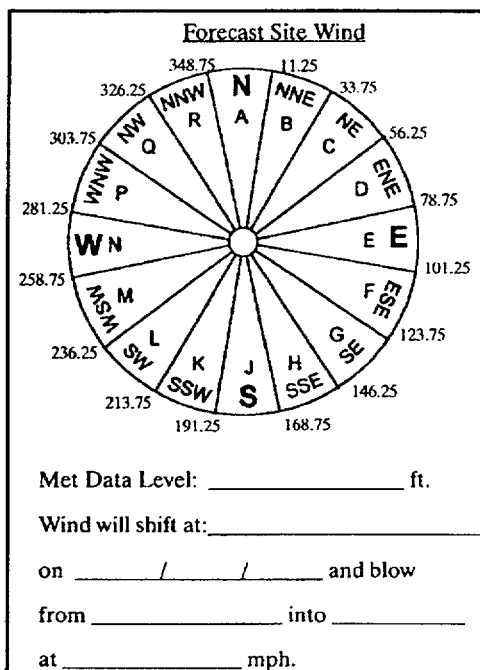
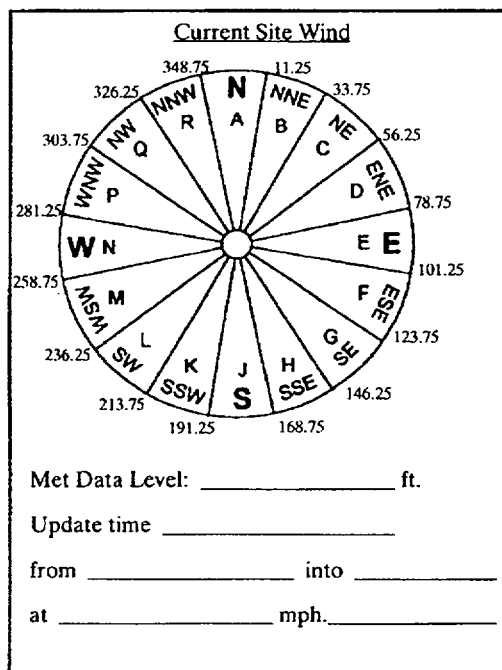
At _____ the wind direction at the site is blowing: from _____° to _____° at _____ mph.

It is expected to remain in this direction until: _____

After which, it is expected to change and blow: from _____° to _____° at _____ mph.

Meteorological Data to be Posted on Emergency Status Board

Notes:



Docket Nos. 50-245
50-336
50-423
B18410

Attachment 4

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

Emergency Plan Procedures

Emergency Procedures Implementing (EPI) Functional Administrative Procedure (FAP)
MP-26-EPI-FAP04-013, "Manager of Communications (MOC)"

Major Revision 1, Minor Revision 1

6/27/00
Approval Date

6/30/00
Effective Date

Document Action Request

SPG#

010418-151615

Initiated By: K. Burgess Date: 4/3/01 Department: EPSD Ext.: 2490

Document No.: MP-26-EPI-FAP04-013 Rev. No.: 001 Minor Rev.: 01

Title: Manager of Communications

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

To correct a reference

Continued ☐

Instructions:

Replace entire form

Continued ☐

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 ☐ Rejected - See Comments

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

See DC-GDL01 for guidance

☐ TPC ☐ OTC ☐ Place in VOID

☒ Edit Corr. :=

Paul W. Blasdel 4/20/01
Plant Mngt Staff Member - Approval

Comments:

RI/DPC Print Name and Date

Continued ☐

Reviews	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"/>		
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<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>		
RCD	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		
Independent	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		

Safety Evaluation Required ☐ Yes ☐ No

Environmental Review Required ☐ Yes ☐ No

1. ☐ SQR Program Final Review and Approval

Approval ☐ Disapproval ☐

SQR Qualified Independent Reviewer / Date

Department Head/Responsible Individual

Approval Date

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

Department Head/Responsible Individual / Date

Meeting No.: _____

Approval Signature

Approval Date

Effective Date: 4/26/01

4/20/01

Approval Date

4/26/01

Effective Date

Manager of Communications (MOC)

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

Section A: Initial Actions

- ☐ 1. Sign in on the EOF Staffing Board and log date and arrival time on the SERO Log Sheet.
- ☐ 2. Maintain a log of significant events and communications on the SERO Log Sheet.

NOTE

ERDS activation is not required for a Unit 1 event.

- ☐ 3. Contact affected unit control room and verify ERDS is operational and configured for the affected unit.
- ☐ 4. Access OFIS in accordance with EPI-FAP15-006, "OFIS Instructions."

Section A: Initial Actions

NOTE

The control room should be relieved of NRC ENS communication responsibilities as soon as possible. Relief shall be verbal, clear, and direct.

For a Unit 1 event, the NRC ENS communicator is located in the Unit 2 control room.

- ☐ 5. IF ready to conduct a turnover with the affected unit control room, perform the following:
 - a. Ensure the DSEO has completed turnover with the control room.
 - b. Obtain a copy of the most current NRC Event Notification form from the control room.
 - c. Discuss status of current communications and inquires with the SDO.
 - d. Request the SDO inform the NRC that ENS responsibilities are being transferred and communications will be interrupted briefly during turnover.
 - e. Request the SDO hang up ENS phone after the NRC has been informed.
 - f. Relieve the affected unit control room of ENS responsibilities.
 - g. Establish communications with the NRC Operations Center via the ENS line.
 - h. WHEN communications have been established, notify the control room that communication responsibilities with the NRC Emergency Operations Center have been assumed by the MOC.
 - i. Record the time of relief in the MOC logbook.
- ☐ 6. During communications with the NRC via the ENS phone, perform the following:
 - Describe events, conditions, and other pertinent information related to the emergency.
 - Notify NRC of any §50.54(x) actions being invoked.
 - Discuss plant parameter data listed on OFIS plant parameter data forms.
 - Determine frequency at which plant information should be passed to NRC (usually about every 15 minutes).

Section A: Initial Actions

- ☐ 7. Obtain additional information requested by the NRC.
 - a. Notify the TIC of specific plant parameters requested which are *not* available on OFIS.
 - b. Refer To Section D, "Emergency Notification System NRC Data Sheet," and provide requested parameters to the TIC. | ⊕
 - c. Fax or verbally transmit data to the NRC Emergency Operation Center and NRC Region One Incident Response Center.
 - d. Direct the TIC to update the Critical Parameters status board with additional parameters.
- ☐ 8. IF the NRC requests information other than plant parameter data or plant conditions, consult with the following.
 - IF questions are radiological in nature, direct questions to MRDA.
 - IF questions are specific to plant conditions, direct question to ADTS.
- ☐ 9. Refer To EPUG 08B, "Millstone Emergency Plan Resource Book," and notify INPO Emergency Preparedness Duty Officer of event in progress.

Section B: Recurring Actions

- ☐ 1. IF NRC requests information other than plant parameters, plant conditions and EOPs in use, notify the ADEOF.
- ☐ 2. IF unable to obtain plant parameter data from OFIS, perform the following:
 - Request the TIC provide the plant parameter data approximately every 15 minutes or as significant changes in the data occur.
 - Provide the data to NRC.
- ☐ 3. Refer To Section D, "Emergency Notification System NRC Data Sheet," and update, as necessary.
- ☐ 4. Coordinate continuous communications between SERO and NRC.
- ☐ 5. IF requested, FAX the OFIS plant parameter data sheets to the NRC Emergency Operations Center and the NRC Region 1 Incident Response Center.

Section B: Recurring Actions

- ☐ 6. Request communications assistance from the following, as necessary:
- TIC
 - CRDC
 - ADTS
 - ADEOF
 - MRDA
 - Shift Technician
- ☐ 7. IF the NRC provides information regarding NRC Site Team, provide information to the ADEOF, MOR, and Regulatory Liaison for coordination of NRC Site Team logistics.

Section C: Termination Actions

- ☐ 1. WHEN SERO termination is directed by DSEO, perform the following:
- Transmit SERO status to NRC via ENS.
 - Record SERO termination in MOC Logbook.

NOTE

ERDS activation is not required for a Unit 1 event.

- Request Control Room for the affected unit to terminate the ERDS connection.

Prepared by: _____

Signature

Print

Date

Section D: Emergency Notification System NRC Data Sheet

(Use additional sheets as necessary.)

INFORMATION REQUESTED (date/time):

INFORMATION PROVIDED (date/time):

INFORMATION REQUESTED (date/time):

INFORMATION PROVIDED (date/time):

INFORMATION REQUESTED (date/time):

INFORMATION PROVIDED (date/time):

INFORMATION REQUESTED (date/time):

INFORMATION PROVIDED (date/time):

Docket Nos. 50-245
50-336
50-423
B18410

Attachment 5

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

Emergency Plan Procedures

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

MP-26-EPI-FAP06, "Classification and PARs"

Major Revision 0, Minor Revision 1

6/27/00
Approval Date

6/30/00
Effective Date

Document Action Request

SPG#

010 423 - 074355

Initiated By: K. Burgess Date: 4/19/01 Department: EPSD Ext.: 2490

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

Title: Classification and PARs

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

Reference in procedure to Non-Emergency Events has changed

Continued ☐

Instructions:

Replace entire procedure.

Continued ☐

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 ☐ Rejected - See Comments

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

See DC-GDL01 for guidance

☐ TPC ☐ OTC ☐ Place in VOID

☒ Edit Corr. =>

P.A. Lucky for P.A. Blasioli 4/24/01
Plant Mngt Staff Member - Approval

Comments:

RI/DPC Print Name and Date

Continued ☐

Reviews	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"/>		
<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>		
RCD	<input type="checkbox"/>						
Independent	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		

Safety Evaluation Required ☐ Yes ☐ No

Environmental Review Required ☐ Yes ☐ No

1. ☐ SQR Program Final Review and Approval

Approval ☐ Disapproval ☐

SQR Qualified Independent Reviewer / Date

Department Head/Responsible Individual

Approval Date

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

Department Head/Responsible Individual / Date

Meeting No.: _____

Approval Signature

Approval Date

Effective Date: 5/2/01

**Functional
Administrative
Procedure**



Classification and PARs

MP-26-EPI-FAP06

Rev. 000-01

Approval Date: 4/24/01

Effective Date: 5/2/01



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1. PURPOSE

1.1 **Objective**

This procedure provides guidance on:

- The use of Emergency Action Levels (EALs) for classifying an emergency.
- Determining the offsite Protective Action Recommendation (PAR).
- Terminating the emergency and transitioning into Recovery.

1.2 **Applicability**

1.2.1 Conditions exist which, in the judgment of the Shift Manager/DSEO, could be classified as an emergency.

1.2.2 Conditions have been stabilized and the DSEO is preparing to terminate the emergency and enter into Recovery.

1.3 **Supporting Documents**

EPI-FAP07, "Notifications and Communications"

EPI-FAP14, "Recovery"

RAC 14, "Non-Emergency Station Events "

1

1.4 Discussion

1.4.1 Event Classification

- a. The decisions to classify an event and recommend protective actions are non-delegable responsibilities of the DSEO. Personnel will assist with the analysis of the event and the development of recommendations, but the ultimate approval authority rests with the DSEO. Input and recommendations that support the decision are provided by the ADTS for operational and EAL table input, the ADEOF for PAR and notification information, and the MOS for security considerations.
- b. To ensure classification upgrades are timely and effective, a continuous communications network has been established between the CRDC in the affected Unit's Control Room, the TIC in the EOF, and the TSCSM in the TSC. The CRDC provides data on changing plant status and parameters. The TIC and the TSCSM provide this information to the DSEO and ADTS (respectively), answer operational and technical questions, and alert of potential impact on classification.
- c. A 15 minute goal has been established by the NRC as a reasonable period of time for assessing and classifying an emergency once indications are available that an EAL initiating condition has been exceeded. After the event has been classified, regulations require the prompt notification of off-site authorities within 15 minutes.

1.4.2 Protective Action Recommendations (PARs) General Guidance

- a. PARs are made whenever a General Emergency is declared. Millstone will not issue PARs for any accident classified below a General Emergency.
- b. PARs provided in response to a radioactive release include evacuation and taking shelter.
 - Evacuation is the preferred action unless external conditions impose a greater risk from the evacuation than from the dose received.
 - Station personnel do not typically have the necessary information to determine whether offsite conditions would require sheltering instead of an evacuation. Therefore, an effort to base PARs on external factors (such as road conditions, traffic/traffic control, weather or offsite emergency worker response) should not be attempted.

- c. At a minimum, a plant condition driven PAR to evacuate a 2 mile radius, and shelter all other Subzones (General Emergency Bravo), is issued at the declaration of a General Emergency. Depending on plant conditions, the following may be issued instead of the minimum PAR:
- 2 mile radius and 5 miles downwind, and shelter all other Subzones (General Emergency Alpha)
 - 5 mile radius and 10 miles downwind, and shelter all other Subzones.
- d. PARs are provided directly to the State DEP (via the IRF as part of the classification posture code or by phone communications).
- The PAR must be provided to the State within 15 minutes of the classification of the General Emergency or any change in recommended actions.
 - The PAR must be provided to the NRC as soon as possible and within 60 minutes of (1) the classification of the General Emergency or (2) any change in recommended actions.
- e. The DSEO may elect to specify PARs for any combinations of Subzones or the entire EPZ (or beyond) regardless of plant and dose based guidance.
- f. PARs should not be extended based on the results of dose projections unless the postulated release is likely to occur within a short period of time. Plant based PARs are inherently conservative such that expanding the evacuation zone as an added precaution would result in a greater risk from the evacuation than from the radiological consequences of a release. It also would dilute the effectiveness of the offsite resources used to accommodate the evacuation.
- g. Many assumptions exist in dose assessment calculations, involving both source term and meteorological factors, which make computer predictions over long distances highly questionable. In the event dose assessment results indicate the need to recommend actions beyond the outer EPZ boundaries (past 10 miles), field monitoring teams will be dispatched to downwind areas to verify the calculated exposure rates prior to issuing PARs outside the EPZ.

2. INSTRUCTIONS

2.1 Event Classification Based on EAL Tables

2.1.1 IF sufficient cause exists for classifying an emergency event, perform the following:

- a. Analyze available information and develop a general understanding of events in progress.
- b. Assign staff to collect and track information.
- c. IF necessary, request additional assistance to support assessment of indications.

2.1.2 Determine whether a classifiable emergency exists as follows:

- a. Review the applicable unit EAL tables:
 - EPI-FAP06-001, "Millstone Unit 1 EAL Table"
 - EPI-FAP06-002, "Millstone Unit 2 EAL Table"
 - EPI-FAP06-003, "Millstone Unit 3 EAL Table"

NOTE

If an applicable category (column) is not found, the most applicable definition from the classification column should be utilized.

Attachment 5 describes offsite response and actions for each classification State Posture Code.

- b. Search the EAL table for applicable accident category (column) and review the possible initiating conditions from most to least severe (top to bottom).
- c. Review the remainder of the EAL table for other possible classification initiating conditions.
- d. IF the event involves an unplanned release, Refer To Attachment 3, "OU1-Determination Criteria," to determine the classification and notification requirements as appropriate.
 - 1) Notify the Unit Chemistry Supervisor to provide assistance in determining the magnitude of the release for OU1 determinations.
 - 2) Evaluate the magnitude of the release.
 - 3) IF a release has exceeded the specified limits, Go To step 2.1.2.e.

- e. Declare the emergency and record the classification decision and declaration time in the logbook.
- IF two or more initiating conditions are met within a single classification level, declare the emergency based on the EAL which appears most limiting to the personnel or plant safety.
 - IF two or more initiating conditions are met for several classification levels, declare the emergency based on the EAL for the highest classification level that applies.

NOTE

If a higher classification level is reached before SERO and Offsite notifications have been performed, the lower classification notification is halted and notification for the higher classification is then made.

- f. Direct the Shift Technician to Refer To EPI-FAP07, "Notifications and Communications," and initiate notifications, as appropriate.
- g. IF the event is classified as Unusual Event or higher, Refer To the following and perform the applicable steps for the event in progress.
- 1) EPI-FAP01-001, "Control Room Director of Station Emergency Operations (CR-DSEO)"
 - 2) EPI-FAP04-001, "Director of Station Emergency Operations (DSEO)"
- 2.1.3 IF the event has been evaluated and is not addressed by the Emergency Action Level tables, Go To RAC 14, "Non-Emergency Station Events. "

①

2.2 Transitory Events

2.2.1 IF the currently declared event has abated to a lower classification level or the situation has been resolved prior to completion of off-site notifications:

a. For Unusual Event level emergencies:

- 1) Complete the initial notifications of SERO, State and NRC personnel noting that the initiating conditions no longer exist on the call-in message and notification forms.
- 2) Terminate the emergency and enter into Recovery (Section 2.3).

b. For Alert and higher level emergencies:

- 1) Complete the initial notifications of SERO, State and NRC personnel noting that the initiating conditions no longer exist on the call-in message and notification forms.
- 2) IF applicable, maintain the classification level until all facility activation activities are completed.
- 3) Terminate the emergency and enter into Recovery (Section 2.3).

NOTE

Event declarations are used to initiate notification processes and predefined response activities. Once an emergency has been declared, there is little to be gained from downgrading the classification level. Termination of the emergency and entry into Recovery is preferred over downgrading whenever possible.

2.2.2 IF an emergency declaration is found to be too conservative, it can be:

- a. Reclassified at the appropriate classification level once the immediate actions (onsite and offsite) have been conducted or controlled.
- b. Terminated into Recovery to initiate follow-up activities.

2.3 Emergency Termination and Transition to Recovery

Termination of the emergency and entry into Recovery enables the on-site and off-site response organizations to disband or reduce their staff and begin the process of returning to a normal mode of operation. Termination also signifies that the safety of the public, company employees and the plant is no longer jeopardized.

2.3.1 IF entering Recovery from an Unusual Event, determine the need for a Recovery Plan and support organization.

- a. Generally, the activities following an Unusual Event will not require the formation of a Recovery Organization or a transition period prior to event termination and entry into Recovery.
- b. Go To EPI-FAP14, "Recovery," for further guidance on the generation of required reports.

2.3.2 IF entering Recovery from an ALERT or higher classification level, complete EPI-FAP06-004, "Termination Checklist."

- a. If conditions will allow for the termination of the emergency and entry into Recovery, Go To EPI-FAP14, "Recovery."
- b. IF conditions do not support termination of the emergency and entry into Recovery, continue following the guidance provided in Section 2.1.

2.4 Plant Based Protective Action Recommendations (PARs)

- 2.4.1 Refer To EPI-FAP06-005, "Control Room Protective Action Recommendations" or EPI-FAP06-006, "EOF Protective Action Recommendations." to determine the proper PAR.
- 2.4.2 Evacuation of a 5 mile radius and 10 miles downwind (with sheltering of all other Subzones) will be recommended for plant conditions in which:
 - a. All three fission product barriers have been lost.
 - b. Containment Radiation Monitors reading:
 - 1) >19,000 R/Hr for Unit 2.
 - 2) >30,000 R/Hr for Unit 3.
 - c. EPA PAGs (≥ 1 Rem TEDE or ≥ 5 Rem CDE thyroid) are or are suspected to be exceeded beyond 5 miles.
- 2.4.3 Evacuation of a 5 mile radius and 10 miles downwind (with sheltering of all other Subzones) will be recommended for a General Emergency - Alpha declaration.
- 2.4.4 At a minimum, evacuation of a 2 mile radius and sheltering of all other Subzones will be recommended for a General Emergency - Bravo declaration.
- 2.4.5 IF a release is in progress:
 - a. Perform offsite dose assessment as soon as possible to determine if PAGs are exceeded and if additional Subzones require evacuation.
 - b. Add any Subzones requiring evacuation as determined by dose assessment to the plant based PARs.
- 2.4.6 IF no release is in progress:
 - a. Perform offsite dose projections on possible conditions as time permits to determine if PAGs could be exceeded.
 - b. Consider adding any Subzones requiring evacuation as determined by dose projection to the plant based PARs.

2.5 Dose Assessment Based Protective Action Recommendations (PARs)

NOTE:

Dose projections are not required to support the decision process in EPI-FAP06-005, "Control Room PARs" or EPI-FAP06-006, "EOF PARs."

- 2.5.1 From the Control Room: If a release is in progress and time permits, perform offsite dose assessment in accordance with EPI-FAP10 to determine whether the plant based protective actions are adequate.
- 2.5.2 From the Emergency Operations Facility: Conduct offsite dose assessment in accordance with EPI-FAP10 to determine whether the plant based protective actions are adequate.
- 2.5.3 In the event dose assessment results indicate the need to recommend actions beyond the outer EPZ boundaries, that is past 10 miles:
 - a. Dispatch RMTs to downwind areas to verify the calculated exposure rates prior to issuing PARs outside the EPZ.
 - b. Many assumptions exist in dose assessment calculations, involving both source term and meteorological factors, which make computer predictions over long distances highly questionable.
- 2.5.4 The ADEOF and the MRDA shall discuss dose assessment and projection analysis results and evaluate their applicability prior to issuing PARs to the State if possible.

3. SUMMARY OF CHANGES

3.1 **Revision 000-01**

3.1.1 Procedure EPIP 4400A, "Non-Emergency Station Events," was converted to RAC 14, "Non-Emergency Station Events."

3.2 **Revision 000**

3.2.1 Original issue

Attachment 1

Definitions and Abbreviations

(Sheet 1 of 1)

Definitions

Event Category - A list of plant or other conditions used to organize the columns of the EAL tables (i.e. Loss of Power, Equipment Failure, Radiation Hazard, etc.)

Release in Progress - ANY radioactive release which is a result of, or associated with, the emergency event.

Significant Transient - Includes response to automatic or manually initiated functions such as trips, runbacks involving greater than 25% thermal power changes, ECCS injections, or thermal power oscillations of 10% or greater.

Transient - A condition that is:

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

Abbreviations

EAL - Emergency Action Level

PAR - Protective Action Recommendation

Attachment 2 Responsibilities

(Sheet 1 of 1)

1. The Shift Manager/CRDSEO is responsible for assessing and classifying events and making PARs until relieved by the DSEO in the EOF.

Attachment 3

OU1-Determination Criteria

(Sheet 1 of 1)

Initiating Condition 1

Any airborne radioactive release that, when averaged over a period of 1 hour, results in concentrations in unrestricted areas that exceed 2 times the applicable concentration limits specified in 10 CFR 20 part 20.1-20.601, Appendix B or Table II, Column 1.*

Initiating Condition 2

Any liquid effluent release that when averaged over a time of 1 hour, exceeds 2 times the applicable concentration specified in Part 20 Appendix B Table 2 Column 2 at the point of entry into the receiving waters, (i.e., unrestricted area) for all radionuclides except tritium and dissolved noble gases.*

* Millstone uses the 1/1/92 version of 10 CFR 20 for radiological effluents.

Attachment 4 PAR Zone Descriptions

(Sheet 1 of 1)

Zone	Town	Area
A	Waterford	The western and southern boundaries follow the Niantic River out to the shoreline along the Long Island Sound. The eastern boundary follows the town line up to Route 1. The northern boundary follows Route 1 to the northern end of the Niantic River to the intersection of the town line.
	East Lyme	The eastern and southern boundaries follow the Niantic River out to the shoreline along the Long Island Sound. The western boundary follows the Lyme Town Line (Fourmile River) up to Interstate 95. The northern boundary follows Interstate 95 to interchange #75 (Route 1 exit) and then follows Route 1 to the intersection with the Waterford town line.
B	East Lyme	The southern boundary begins at the intersection of Interstate 95 and the Lyme town line. It then follows Interstate 95 to interchange #75 (Route 1 exit). The northern boundary follows Route 1 to the intersection with the Lyme town line. The western boundary follows the Lyme town line to where it intersects with Interstate 95.
	Waterford	The southern boundary begins at the intersection of Route 1 and the town line of East Lyme at the northern end of the Niantic River. It then follows Route 1 to the New London town line. The eastern boundary follows the town line to Route 95. The northern boundary follows Route 95 to 85, along Route 85 to the intersection of Route 52, and then along Route 52 to the west town line. The western boundary follows the East Lyme town line down to where it intersects Route 1 at the north end of the Niantic River.
	New London	All of New London is contained in this Subzone.
C	East Lyme	The southern boundary follows Route 51 from the town line to Route 95 and Route 95 to the east town line. The eastern boundary follows the town line. The northern boundary follows the town line. The western boundary follows the town line down to Route 51.
	Waterford	The southern boundary follows Route 52 from the town line to the intersection of Route 85, Route 85 to Route 95, then along Route 95 to the town line. The eastern boundary follows the Thames River to the town line. The northern boundary follows the town line. The western boundary follows the town line to Route 52.
	Montville	The southern boundary follows the town line. The eastern boundary follows the waterline through Horton Cove to Route 32. The northern boundary follows Route 32 to Raymond Hill Road, Raymond Hill Road to Route 52, Route 52 to Route 163, Route 163 to Chesterfield Road, Chesterfield Road (including Oakdale Heights) to Route 85, Route 85 to the Salem town line, and the Salem town line to the East Lyme town line. The western town line follows the town line from East Lyme to Waterford.
D	Old Lyme	All of Old Lyme is contained in this Subzone.
	Lyme	The southern boundary follows the town line from Route 156. The eastern boundary follows the town line to Beaver Brook Road. The northern boundary follows Beaver Brook Road to the intersection of Route 156. The western boundary follows Route 156 to the town line.
E	Ledyard	The southern boundary follows the town line from the Thames River to Route 117. The eastern and northern boundaries follow Route 117 to Sandy Hollow Road, Sandy Hollow Road to Whalehead Road, Whalehead Road to the southern leg of the Tom Allyn Brook, and the Tom Allyn Brook to the Thames River. The western boundary follows the Thames River from the pond inlet north of Allyn Point down to the town line.
	Groton	All of Groton is contained in this Subzone.
F	Fishers Is.	All of Fishers Island is contained in this Subzone.
N/A	Plum Is.	All of Plum Island is contained in this Subzone.

Attachment 5

State and Local Posture Code Response and Protective Actions

(Sheet 1 of 1)

Unusual Event

Delta 1: Unusual occurrence with no unplanned release of radioactivity.

Offsite officials will make no public protective actions.

Delta 2: Unusual occurrence with an unplanned release of minute amounts of radioactivity.

Possible stand-by for key staff. Offsite officials will make no public protective actions.

Alert

Charlie 1: Actual or potential release of minute amounts of radioactivity.

Key staff on stand-by. Optional activation of the EOCs. Bring EAS to stand-by status. Consideration given to monitoring food, water, and milk pathways.

Site Area Emergency

Charlie 2: Actual or potential release of limited amounts of radioactivity.

Activation of the EOC. Coordinate activation of EAS and offsite sirens. Monitor food, water, and milk pathways. Consideration given to placing milk animals on stored feed.

General Emergency

Bravo: Events with a potential delayed release of relatively large amounts of radioactivity such as station blackout or loss of Control Room security.

Activation of the EOC (if not already done). Coordinate activation of EAS and offsite sirens. Evacuation of Zone 'A'. Shelter all other Zones. Control food, water, and milk.

Alpha: Actual or potential release of large amounts of radioactivity. Actual or potential breach in containment.

Activation of the EOC (if not already done). Coordinate activation of EAS and offsite sirens. Evacuation of Zones 'A' and 'B'. Shelter all other Zones. Assess the need to evacuate additional Zones. Control food, water, and milk.

Docket Nos. 50-245
50-336
50-423
B18410

Attachment 6

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

Emergency Plan Procedures
Emergency Procedures Implementing (EPI) Functional Administrative Procedure (FAP)
MP-26-EPI-FAP07-003, "NRC Event Notification Form"
Major Revision 0, Minor Revision 1

Document Action Request

SPG#

010509-070450

Initiated By: K. Burgess Date: 5/2/01 Department: EPSD Ext.: 2490Document No.: MP-26-EPI-FAP07-003 Rev. No.: 000 Minor Rev.: 01Title: NRC Event Notification Form

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

Typo AR No 00011102

Continued ☐

Instructions:

Replace entire form.

Continued ☐

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 ☐ Rejected - See CommentsActivity: ☐ Revision ☐ Minor Revision ☐ Cleanup Rev ☐ Biennial Review ☐ Cancellation ☐ Supersedure

See DC-GDL01 for guidance

☐ TPC ☐ OTC ☐ Place in VOID☒ Edit Corr.:⇒Paul H. Bassett 5/9/01
Plant Mngt Staff Member - Approval

Comments:

RI/DPC Print Name and Date

Continued ☐

Reviews	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"/>		
<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>		
RCD	<input type="checkbox"/>						
Independent	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		

Safety Evaluation Required ☐ Yes ☐ NoEnvironmental Review Required ☐ Yes ☐ No1. ☐ SQR Program Final Review and ApprovalApproval ☐ Disapproval ☐

SQR Qualified Independent Reviewer / Date

Department Head/Responsible Individual

Approval Date

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

Department Head/Responsible Individual / Date

Meeting No.: _____

Approval Signature

Approval Date

Effective Date: 5/15/01

5/9/01

Approval Date

5/15/01

Effective Date

NRC Event Notification Form

NRC EVENT NUMBER: _____ NRC CONTACT NAME: _____

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

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

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

NRC Event Notification Form

DESCRIPTION (fill in as available)							
1. SYSTEM(S) AFFECTED:							
2. ACTUATIONS & THEIR INITIATION SIGNALS:							
3. CAUSES (IF KNOWN):							
4. EFFECT OF EVENT ON PLANT:							
5. ACTIONS TAKEN OR PLANNED:							
6. ADDITIONAL INFORMATION							
NOTIFICATIONS	YES	NO	WILL BE	ANYTHING UNUSUAL OR NOT UNDERSTOOD?	YES (EXPLAIN ABOVE)	NO	
NRC RESIDENT				DID ALL SYSTEMS FUNCTION AS REQUIRED?	YES	NO (EXPLAIN ABOVE)	
STATE				MODE OF OPERATION UNTIL CORRECTED:			
LOCAL				ESTIMATED RESTART DATE:			
OTHER GOV AGENCIES							
MEDIA/PRESS RELEASE							
RADIOLOGICAL RELEASES: CHECK OR FILL IN APPLICABLE ITEMS							
LIQUID RELEASE		GASEOUS RELEASE		UNPLANNED RELEASE		PLANNED RELEASE	
MONITORED		UNMONITORED		OFFSITE RELEASE		T.S. EXCEEDED	
PERSONNEL EXPOSED OR CONTAMINATED				OFFSITE PROTECTIVE ACTIONS RECOMMENDED		State release path in description	
				Release Rate (Ci/sec)	% T.S. LIMIT	HOO GUIDE	Total Activity
Noble Gas						0.1 Ci/sec	1000 Ci
Iodine						10 µCi/sec	0.01 Ci
Particulate						1 µCi/sec	1 mCi
Liquid (excluding tritium & dissolved noble gases)						10 µCi/min	0.1 Ci
Liquid (tritium)						0.2 Ci/min	5 Ci
Total Activity							
		PLANT STACK	CONDENSER/AIR REJECTOR		MAIN STEAM LINE		SG BLOWDOWN
RAD MONITOR READINGS:							
ALARM SETPOINTS							
% T.S. LIMIT (if applicable)							
RCS OR SG TUBE LEAKS: CHECK OR FILL IN APPLICABLE ITEMS:							
LOCATION OF TUBE LEAK (e.g., SG#, valve, pipe, etc.)							
LEAK RATE		UNITS gpm/gpd		T.S. LIMITS			
LEAK START DATE:		TIME:		COOLANT ACTIVITY & UNITS: PRIMARY- SECONDARY-			
LIST OF SAFETY RELATED EQUIPMENT NOT OPERATIONAL:							
DSEO Signature: _____				Time: _____			

Docket Nos. 50-245
50-336
50-423
B18410

Attachment 7

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

Emergency Plan Procedures

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

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

Major Revision 0, Minor Revision 2

6/27/00
Approval Date

6/30/00
Effective Date

Document Action Request

SPG# 010427-092047

Initiated By: K. Burgess Date: 4/26/01 Department: EPSD Ext.: 2490

Document No.: MP-26-EPI-FAP08 Rev. No.: 000 Minor Rev.: 02

Title: Evacuation and Assembly

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

Address LORT comment

Continued ☐

Instructions:

Replace entire procedure.

Continued ☐

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 ☐ Rejected - See Comments

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

See DC-GDL01 for guidance

☐ TPC ☐ OTC ☐ Place in VOID

☒ Edit Corr. =>

Powell, B. B. 9/30/01
Plant Mngt Staff Member - Approval

Comments:

KR Burgess 4/26/01
RI/DPC Print Name and Date

Continued ☐

Reviews	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"/>		
<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>		
RCD	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		
Independent	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		

Safety Evaluation Required ☐ Yes ☐ No

Environmental Review Required ☐ Yes ☐ No

1. ☐ **SQR Program Final Review and Approval**

Approval ☐ Disapproval ☐

SQR Qualified Independent Reviewer / Date

Department Head/Responsible Individual

Approval Date

2. ☐ **SORC/PORC/RI/DH Final Review and Approval**

Department Head/Responsible Individual / Date

Meeting No.: _____

Approval Signature

Approval Date

Effective Date:

5/4/01

**Functional
Administrative
Procedure**



Evacuation and Assembly

MP-26-EPI-FAP08

Rev. 000-02

Approval Date: 4/30/01

Effective Date: 5/4/01



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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. As in an Alert, all on-call and OSC SERO personnel are directed report to their designated emergency response facility, and all remaining SERO personnel report to the Simulator Foyer. All other personnel are instructed to leave the Owner Controlled Area. 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. On-duty and OSC SERO personnel assemble in the emergency response facilities. All other SERO personnel report to and assemble at the Simulator Foyer (the designated Assembly Area for Millstone Station). 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 000-02**

3.1.1 Changed the word “director” to “direct” in step 2.1.6.

3.2 **Revision 000-01**

3.2.1 Added the words “unless constraints exist” to clarify the evacuation.

3.3 **Revision 000**

3.3.1 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

B18410

Attachment 8

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

Emergency Plan Procedures

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

MP-26-EPI-FAP15-001, "DSEO/ADTS Briefing Sheet"

Major Revision 0, Minor Revision 1

6/27/00
Approval Date

6/30/00
Effective Date

Document Action Request

SPG# 010418-155606

Initiated By: K. Burgess Date: 4/3/01 Department: EPSP Ext.: 2490

Document No.: MP-26-EPI-FAP15-001 Rev. No.: 000 Minor Rev.: 01

Title: DSEO/ADTS Briefing Sheet

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

Address LORT comments

Continued ☐

Instructions:

Replace entire form.

Continued ☐

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 ☐ Rejected - See Comments

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

See DC-GDL01 for guidance

☐ TPC ☐ OTC ☐ Place in VOID

☒ Edit Corr.⇒

Paul H. Burgess 4/3/01
Plant Mngt Staff Member - Approval

Comments:

RI/DPC Print Name and Date

Continued ☐

Reviews

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"/>		
<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>		
RCD	<input type="checkbox"/>						
Independent	<input type="checkbox"/>						

Safety Evaluation Required ☐ Yes ☐ No

Environmental Review Required ☐ Yes ☐ No

1. ☐ SQR Program Final Review and Approval

Approval ☐ Disapproval ☐

SQR Qualified Independent Reviewer / Date

Department Head/Responsible Individual

Approval Date

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

Department Head/Responsible Individual / Date

Meeting No.: _____

Approval Signature

Approval Date

Effective Date: 4/26/01

4/20/01

Approval Date

4/26/01

Effective Date

DSEO/ADTS Briefing Sheet

1) Classification

Time Declared: _____

EAL No: _____

☐ General Emergency ☐ Alpha ☐ Bravo☐ Site Area Emergency (Charlie-Two)☐ Alert (Charlie-One)

Basis: _____

2) Fission Product Barrier Status

	FUEL	RCS	CTMT
Intact:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Potential Loss:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Loss:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3) Onsite Protective Actions

☐ None☐ Early Dismissal: ☐ No ☐ Yes☐ Local (on-site) Area(s) Evacuated: ☐ No ☐ Yes☐ Evacuation/Accountability: ☐ No ☐ Yes
Status: _____☐ Search & Rescue: ☐ No ☐ Yes
Status: _____☐ Potassium Iodide Issued: ☐ No ☐ Yes

4) Personnel Status

☐ NoneInjuries (No. _____): ☐ No ☐ YesContamination(s): ☐ No ☐ YesOver Exposure(s): ☐ No ☐ YesEmerg Exposures Authorized: ☐ No ☐ Yes

Details (names of injured, status of family notification): _____

5) Unit Status

☐ On-Line ☐ At Power: _____ %☐ Off-Line ☐ Cooling Down☐ Cold Shutdown

Time of Rx Shutdown: _____

☐ Stable ☐ Degrading ☐ Improving

Systems/Equipment Affected: _____

Equipment Out of Service: _____

Teams Dispatched/Corr Actions/Priorities: _____

Outstanding Actions: _____

EOPs in Use: _____

Security Controls in Effect: _____

§50.54(x) Invoked: ☐ No ☐ Yes

Time NRC Notified: _____

①

6) Notifications (last issued)

☐ State/Local Time: _____
☐ NRC Time: _____
☐ News Release Time: _____

7) Radiological Release

☐ None
☐ Potential ☐ Ongoing ☐ Terminated
Time Started: _____
Projected Duration: _____ hours
Time Stopped: _____
Max Offsite Dose Rate: _____ mR/hr

8) Offsite Assistance Requested

☐ None
☐ Ambulance ☐ Fire ☐ Police
☐ Other: _____

9) PARs (General Emergency Only)

Current Wind Direction (° from): _____

Millstone Recommendations

Zone	Community	PAR
A	Waterford (A-1)	E S
	East Lyme (A-2)	
B	East Lyme (B-1)	E S
	Waterford (B-2)	E S
	New London (B-3)	E S
C	East Lyme (C-1)	E S
	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 (E-2)	E S
F	Fishers Island	E S
N/A	Plum Island	E S

(Circle the Affected Communities)

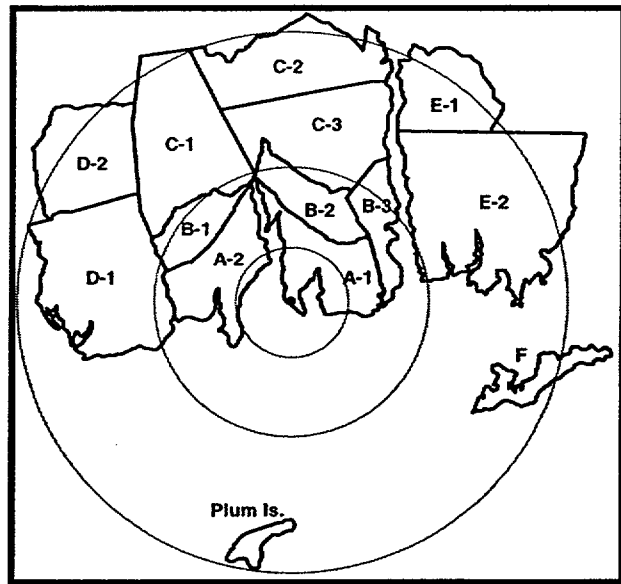
State Directives

Evacuate: A B C D E F

Shelter: A B C D E F

(Circle the Affected Zones)

Notes: _____



Prepared by: _____
Name Time Date