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



AUG | 2 2002

Docket Nos. 50-245 50-336 50-423 B18725

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 1, Minor Revision 2, transmitted via Attachment 1;
- MP-26-EPI-FAP02-001, "Assistant Director Technical Support (ADTS)," Major Revision 1, Minor Revision 1, transmitted via Attachment 2;
- MP-26-EPI-FAP02-011, "Manager of Security (MOS)," Major Revision 0, Minor Revision 1, transmitted via Attachment 3;
- MP-26-EPI-FAP03, "Operational Support Center Activation and Operation," Major Revision 1, transmitted via Attachment 4;
- MP-26-EPI-FAP03-001, "Manager of Operational Support Center (MOSC) TSC/OSC," Major Revision 1, transmitted via Attachment 5;
- MP-26-EPI-FAP03-002, "Assistant Radiation Protection Supervisor (ARPS)," Major Revision 1, transmitted via Attachment 6;
- MP-26-EPI-FAP03-003, "Manager Operational Support Center OSC AA," Major Revision 1, transmitted via Attachment 7;
- MP-26-EPI-FAP03-004, "CBETS Operator," Major Revision 1, transmitted via Attachment 8;
- MP-26-EPI-FAP06-001, "Millstone Unit 1 Emergency Action Levels," Major Revision 1, transmitted via Attachment 9;
- MP-26-EPI-FAP06-002, "Millstone Unit 2 Emergency Action Levels," Major Revision 1, Minor Revison 2, transmitted via Attachment 10;
- MP-26-EPI-FAP06-003, "Millstone Unit 3 Emergency Action Levels," Major Revision 1, Minor Revison 2, transmitted via Attachment 11;

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- MP-26-EPI-FAP07, "Notifications and Communications," Major Revision 2, Minor Revision 1, transmitted via Attachment 12; and
- MP-26-EPI-FAP08, "Evacuation and Assembly," Major Revision 0, Minor Revision 5, transmitted via Attachment 13.

There are no regulatory commitments contained within this letter.

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

Very truly yours,

DOMINION NUCLEAR CONNECTICUT, INC.

J. Alah Frice Site Vice President - Millstone

Attachments (13)

- cc: H. J. Miller, Region I Administrator (2 copies) R. J. Conte, Chief, Operational Safety Branch, Region I
- cc: w/o attachment
  - J. B. Hickman, NRC Project Manager, Millstone Unit No. 1 J. R. Wray, NRC Inspector, Region I, Millstone Unit No. 1 R. B. Ennis, NRC Senior Project Manager, Millstone Unit No. 2 NRC Senior Resident Inspector, Millstone Unit No. 2 V. Nerses, NRC Senior Project Manager, Millstone Unit No. 3 NRC Senior Resident Inspector, Millstone Unit No. 3

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Attachment 1

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

Emergency Procedures Implementing (EPI) Functional Administrative Procedure (FAP) MP-26-EPI-FAP01-001, "Control Room - Director of Station Emergency Operations (CR-DSEO)," Major Revision 1, Minor Revision 2

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

#### NOTE

If the applicable unit is Unit 1, the Unit 2 SM/CFH will classify the event and become the CR-DSEO.

#### 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.
  - □ Review the EAL tables:
    - For Unit 1, EPI-FAP06-001
    - For Unit 2, EPI-FAP06-002
    - For Unit 3, EPI-FAP06-003
  - □ 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.

- 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

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#### Section B: Unusual Event Immediate Actions

- 1. Notifications
  - □ Notify the unaffected unit control room of the event.

#### NOTE

During a security event, it may <u>NOT</u> be advisable to sound an alarm or make a PA announcement.

- □ <u>IF</u> the event involves a situation where site personnel should be sheltered, Refer To EPI-FAP08, "Evacuation and Assembly," Sheltering, and perform actions.
  - □ <u>WHEN</u> appropriate, announce termination of sheltering.
- **IF** sheltering actions are <u>not</u> being conducted, perform the following:
  - □ 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 on EPI-FAP15-012, "SERO Log Sheet."
- **D** Review and approve the Incident Report Form (IRF) for transmittal.
- □ Refer To EPI-FAP15-001, "DSEO/ADTS Briefing Sheet," and complete.
- □ IF the emergency event occurs off-hours (6:00pm to 4:00am) or on weekends, direct SDO to voice-record EPI-FAP15-001 information and fax completed form to EOF and TSC.

## Section B: Unusual Event Immediate Actions

- 2. NRC Notification
  - Direct the SDO to notify the NRC via the ENS.
  - □ Verify the ST or SDO has contacted the resident inspector.
- 3. Loss of Power
  - □ <u>IF</u> event is Loss of Off-Site Power (LOP), evaluate what loads are being carried and what loads are necessary.
  - □ Within 4 hours of the LOP, evaluate the need to order emergency diesel generator fuel to extend on-site capacity and direct on-shift person to order fuel, as required.
- 4. IF no upgrade to classification is warranted, Go To Section F, "Routine and Follow-up Actions."

#### Section C: Alert Immediate Actions

- 1. Notifications
  - □ Notify the unaffected unit control room of the event.
  - Request Security to restrict site access and notify Waterford Police and CT State Police to prepare for a precautionary dismissal, as appropriate.

#### NOTE

Hazardous conditions or Security-related events may impact the ability to move personnel. If these conditions exist, it may be better to shelter personnel onsite.

During a security event, it may <u>NOT</u> be advisable to sound an alarm or make a PA announcement.

□ IF the event involves a situation where site personnel should be sheltered, Refer To EPI-FAP08, "Evacuation and Assembly," Sheltering, and perform actions.

□ <u>WHEN</u> appropriate, announce termination of sheltering.

- WHEN appropriate, conduct full SERO activation and precautionary dismissal, as applicable.
- **IF** sheltering actions are <u>not</u> being conducted, perform the following:
  - □ 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*\_\_\_\_\_)

□ IF the designated emergency response facilities <u>are</u> available, announce the following:

All on-duty SERO members report to your designated emergency response facility. All off-duty SERO members report to your designated Assembly Area.

 $\Box$  IF either the EOF <u>OR</u> the TSC is unavailable, announce the following:

The (EOF) (TSC) is unavailable at this time. All on-duty SERO members who report to the (EOF) (TSC), report to your backup locations. All off-duty SERO members report to your backup Assembly Area.

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#### Section C: Alert Immediate Actions

- □ Repeat the PA message(s).
- □ Log time of announcement on EPI-FAP15-012.
- **□** Review and approve the Incident Report Form (IRF) for transmittal.
- □ Refer To EPI-FAP15-001, "DSEO/ADTS Briefing Sheet," and complete.
- □ IF the emergency event occurs off-hours (6:00pm to 4:00am) or on weekends, direct SDO to voice-record EPI-FAP15-001 information and fax completed form to EOF and TSC.

#### 2. NRC Notification

- Direct the SDO to notify the NRC via the ENS.
- □ Verify the ST or SDO has contacted the resident inspector.
- 3. <u>Precautionary Dismissal</u>

# CAUTION

Precautionary dismissal may <u>NOT</u> be desired during certain events (e.g., Security-related). These actions should be reviewed periodically and implemented as quickly as possible after the threat has been resolved.

- □ <u>IF</u> precautionary dismissal is not desired due to the nature of the event (e.g., Security-related, weather), consider postponing until threat has been resolved.
- □ IF no constraints exist, Refer To EPI-FAP08, "Evacuation and Assembly," and conduct a precautionary dismissal, as events warrant.
- 4. <u>IF</u> no upgrade to classification is warranted, Go To Section F, "Routine and Follow-up Actions."

1. Notific	ations
D No	tify the unaffected unit control room of the event.
🛛 Re	quest Security to restrict site access.
	NOTE
Hazardou these con	s conditions or Security-related events may impact the ability to move personnel. If ditions exist, it may be better to shelter personnel onsite.
During a sannounce	security event, it may <u>NOT</u> be advisable to sound an alarm or make a PA ment.
D <u>IF</u> t EP	the event involves a situation where site personnel should be sheltered, Refer To I-FAP08, "Evacuation and Assembly," Sheltering, and perform actions.
D	WHEN appropriate, announce termination of sheltering.
D	<u>WHEN</u> appropriate, conduct full SERO activation and evacuation, as applicable.
	sheltering actions are not being conducted, perform the following:
	Activate the outside speakers.
	C A U T I O N
Implemen (e.g., Secu	ntation of station evacuation shall not be delayed unless constraints are in place arity-related) and doing so creates a threat to personnel safety.
۵	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 ( <i>Unit #</i> ) due to ( <i>brief description of event</i>
	).
۵	<u>IF</u> the designated emergency response facilities <u>are</u> available, announce the following:
	All on-duty SERO members report to your designated emergency response facility. All off-duty SERO members report to your designated Assembly Area.

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	IF the EOF OR TSC is unavailable, announce the following over the station PA system:
	The (EOF)(TSC) is unavailable at this time. All on-duty SERO members who report to the (EOF)(TSC), report to your backup locations. All off-duty SERO members report to your backup Assembly Area.
	Repeat the PA message(s).
	□ Log time of announcement on EPI-FAP15-012.
	Review and approve the Incident Report Form (IRF) for transmittal.
	C A U T I O N
St	ation evacuation may not be desired during certain events (e.g., Security-related).
-	□ IF station evacuation could endanger plant personnel, consider the following:
	• Defer actions until the threat has been resolved.
	• <u>WHEN</u> threat has been resolved, perform evacuation and accountability as quickly as possible.
	□ Refer To EPI-FAP08, "Evacuation and Assembly," and conduct evacuation.
	□ Refer To EPI-FAP15-001, "DSEO/ADTS Briefing Sheet," and complete.
	□ IF the emergency event occurs off-hours (6:00pm to 4:00am) or on weekends direct SDO to voice-record EPI-FAP15-001 information and fax completed form to EOF and TSC.
2.	NRC Notification
	Direct the SDO to notify the NRC via the ENS.
	Verify the ST or SDO has contacted the resident inspector.
3.	IF no upgrade to classification is warranted, Go To Section F, "Routine and Follow-up Actions."

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	ify the unaffected unit control room of the event.
🛛 Rea	uest Security to restrict site access.
	NOTE
Hazardou these cone	s conditions or Security-related events may impact the ability to move personnel. If litions exist, it may be better to shelter personnel onsite.
During a sannounce	ecurity event, it may <u>NOT</u> be advisable to sound an alarm or make a PA nent.
□ <u>IF</u> t EP	he event involves a situation where site personnel should be sheltered, Refer To -FAP08, "Evacuation and Assembly," Sheltering, and perform actions.
	WHEN appropriate, announce termination of sheltering.
۵	WHEN appropriate, conduct full SERO activation and evacuation, as applicable.
	heltering actions are <u>not</u> being conducted, perform the following:
	Activate the outside speakers.
	CAUTION
Implemen (e.g., Secu	tation of station evacuation shall not be delayed unless constraints are in place urity-related) and doing so creates a threat to personnel safety.
۵	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 ( <i>Unit #</i> ) due to ( <i>brief description of event</i>
	).
	IF the designated emergency response facilities are available, announce the
۵	following:
	following: All on-duty SERO members report to your designated emergency response facility. All off-duty SERO members report to your designated Assembly Area.

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Section E: General Emergency Immediate Actions	
<ul> <li><u>IF</u> the EOF <u>OR</u> TSC is unavailable, announce the following over the station PA system:</li> </ul>	
The (EOF)(TSC) is unavailable at this time. All on-duty SERO members who report to the (EOF)(TSC), report to your backup locations. All off-duty SERO members report to your backup Assembly Area.	
□ Repeat the PA message(s).	
□ Log time of announcement on EPI-FAP15-012.	
Review and approve the Incident Report Form (IRF) for transmittal.	ı
NOTE	
The State must be notified within 15 minutes after a decision is made to issue a PAR.	
Review and develop PARs in accordance with EPI-FAP06, "Classification and PARs."	
IF PARs are warranted, issue them in accordance with EPI-FAP06-005, "Control Roon Protective Action Recommendations."	ו
CAUTION	
Station evacuation may not be desired during certain events (e.g., Security-related).	
IF station evacuation could endanger plant personnel, consider the following:	
• Defer actions until the threat has been resolved.	
• <u>WHEN</u> threat has been resolved, perform evacuation and accountability as quickly as possible.	
Refer To EPI-FAP08, "Evacuation and Assembly," and conduct evacuation.	•
□ Refer To EPI-FAP15-001, "DSEO/ADTS Briefing Sheet," and complete.	
IF the emergency event occurs off-hours (6:00pm to 4:00am) or on weekends, direct SDO to voice-record EPI-FAP15-001 information and fax completed form to EOF and TSC.	
2. <u>NRC Notification</u>	
Direct the SDO to notify the NRC via the ENS.	
Verify the ST or SDO has contacted the resident inspector.	

Section F:	Routine an	d Follow-up	Activities
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# 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 on EPI-FAP15-012, "SERO Log Sheet."
- 2. <u>IF</u> a release of radioactive material is in progress or is imminent, direct the Chemistry Technician to perform initial on-shift dose assessment.
- 3. IF any of the following was deferred, consider performing at this time:
  - SERO activation and/or facility activation
  - Precautionary dismissal
  - Evacuation
  - Accountability
- 4. Continuously evaluate or direct the evaluation of the EAL tables and fission product barriers for changes in event status.

5. Ensure the NRC is notified within 60 minutes of any event classification and whenever significant changes in conditions occur during the emergency.

- 6. Ensure follow-up notifications are routinely provided to the State and local agencies as appropriate.
- 7. 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).
- 8. IF necessary, authorize extended emergency exposure limits (dose > 5 Rem is expected) in accordance with EPI-FAP09-001, "Increased Radiation Exposure Authorization," and log any extensions on SERO Log Sheet (non-delegable).
- 9. 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.
- 10. Direct the RMT #1 to perform control room and plant habitability surveys and sampling.

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# Section F: Routine and Follow-up Activities

- 11. IF necessary, issue KI tablets in accordance with EPI-FAP09-003, "KI Tablet Issue Authorization and Tracking Sheet," and log time of issue on SERO Log Sheet (non-delegable).
- 12. Conduct periodic briefings with the control room staff.
- □ 13. 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.

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	N	OTE	
Activat	tion of the EOF and TSC/OSC should o	occur within 60 minutes of SERO notification	ı. [
During deferre within	y certain events (e.g., Security-related, to ed because of the threat to plant personn 60 minutes.	oxic gases) immediate SERO activation may el. This could prevent activation of facilities	be (
The con etc.) to and con	ntrol room may transfer certain respons TSC or EOF individuals before the fac ntrol is maintained by the CR-DSEO.	e functions (such as team dispatch, notification ilities are declared activated, provided comm	on, and
It is pre time bu	eferred that turnover with the ADTS and ut events may occur which require separ	d the on-call DSEO be conducted at the same rate turnovers to be completed.	;
<b>1</b> .	IF precautionary dismissal, and/or eva due to certain constraints (e.g., Securi	acuation and accountability have been deferre ty-related, weather), perform the following:	đ
	• Discuss constraints with the EOF	DSEO and the ADTS.	ſ
	• Consider whether deferred actions	can be performed.	
<b>2</b> .	Conduct turnover with the EOF DSEC	D and the ADTS.	Ĵ
	NO	OTE	
For a U	Jnit 1 event, the Unit 2 CR-DSEO becom	mes the MCRO.	
<b>3</b> .	Upon formal relief by the DSEO, reco	ord turnover date and time in the logbook.	
<b>4</b> .	Conduct a briefing with the EOF DSE "DSEO/ADTS Briefing Sheet."	O and ADTS using EPI-FAP15-001,	
<b>D</b> 5.	Go To EPI-FAP01-002, "Manager of	Control Room Operations."	
pared by:	:		
-	Signature	Print D	ate
			•

Docket Nos. 50-245 50-336 50-423 B18725

Attachment 2

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

Emergency Procedures Implementing (EPI) Functional Administrative Procedure (FAP) MP-26-EPI-FAP02-001, "Assistant Director Technical Support (ADTS)" <u>Major Revision 1, Minor Revision 1</u>

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	Document No.: <u>MP-26-EPI-FAP02-001</u> Title: <u>Assistant Director Technical Support</u>		Rev. No.:	<u>r ool</u> K	Minor MA 7-9-1	<u>z 0 </u>
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PM 6/24/02 Approval Date

7 **Effective** Date

# **Assistant Director Technical Support (ADTS)**

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

# Section A: TSC/OSC Activation/Initial Actions

		NOTE
TS	C/OSC	activation is not required to provide immediate support to the control room.
	1.	Key into TSC/OSC.
	2.	Sign in on TSC/OSC Staffing Board.
	3.	Obtain a copy of the Incident Report Form (IRF) from the fax machine or Control Room.
	4.	<ul><li>Obtain additional information from the following, as necessary:</li><li>Voice mail box</li></ul>
		Additional faxes
	5.	Initiate a log of significant events and communications on EPI-FAP15-012, "SERO Log Sheet," and log date and arrival time.
	6.	Check TSC/OSC and OSCAA SERO response status as follows:
	-	• Verify minimum facility staff is present.
		• IF minimum staffing is not present, determine the ability of the SERO to activate as is and proceed as appropriate (i.e., all functional areas staffed).
	7.	Contact CRDSEO and discuss any significant changes since event declaration and obtain status of onsite protective actions and emergency team deployment.
	8.	Refer To EPI-FAP15-001 "DSEO/ADTS Briefing Sheet" and obtain a briefing from the control room (CRDSEO or MCRO) and the DSEO in the EOF.
	9.	Formally relieve the CRDSEO of emergency team deployment and onsite protective action responsibilities and log the date and time of relief.
	10.	Declare the TSC/OSC and OSCAA activated and record activation time on the SERO Log Sheet.
	11.	Brief the TSC/OSC on plant status and control room priorities.

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#### Section A: TSC/OSC Activation/Initial Actions

# NOTE

The CR-DSEO may have chosen *not* to perform a precautionary dismissal or evacuation due to the nature of the event (e.g., Security related). These actions should be implemented as quickly as achievable when the threat has been resolved.

If the precautionary dismissal or evacuation was not performed by the CRDSEO prior to turnover and no constraints exist, Direct CR to implement EPI-FAP08, "Evacuation and Assembly."

#### Section B: Routine Activities

- 1. Track the response of additional On-Call and Subject-to-Call SERO personnel and direct the MOR to contact personnel for unfilled positions.
- 2. Direct non-assigned TSC/OSC personnel to go to the OSC Assembly Area.
- **3**. Establish TSC/OSC priorities and direct the initial response.
- 4. Notify the DSEO of any recommended changes in event classification or barrier status.
  - <u>IF</u> conditions change, Refer To EPI-FAP06, "Classification and PARs," for the affected unit and immediately recommend classification changes to the DSEO, as appropriate.
  - <u>WHEN</u> the DSEO escalates the event classification, inform personnel in the TSC/OSC and OSC Assembly Area.

# NOTE

An evacuation and assembly may not be performed if doing so poses a threat to personnel safety. Sheltering may be the desired response.

- 5. <u>IF Site Area Emergency or General Emergency is declared and no constraints exist,</u> Direct Control Room to implement EPI-FAP08, "Evacuation and Assembly."
- 6. Update the DSEO on the status and priority of assessment and repair activities.

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Sect	ion B:	Routine Activities
	7.	Direct and approve on-site PPADs considering the following:
		• IF time permits, discuss logistics for the on-site PPADs with the MTSC, MOSC, MOS, and MRCA.
		• <u>IF</u> there is a potential for an airborne radiological release affecting the TSC/OSC, announce that there will be no eating or drinking until further habitability is verified within the facilities.
		• IF there is a localized emergency (security, high radiation, fire), include its type and location in an announcement and instruct personnel to stand clear of the area.
		• Inform the DSEO of any implemented on-site PPADs.
	8.	Refer To EPI-FAP02-012, "TSC/OSC Emergency Repair/Procedure Change/ Assessment Recommendations," and authorize departure from normal station operations and maintenance procedures.
	9.	Develop strategies with the MTSC to address the following:
		• Prevention of severe core damage
		• Increasing time to core uncovery
		• Prevention of containment failure
		• Reduction and/or termination of radiological releases to the environment
	10.	Notify the MCRO of the following:
		• Procedure development for outside design basis operations
		TSC/OSC Priorities
		• Core thermal hydraulic analysis and time to core uncovery
		Entry into Severe Accident Management Guidelines
		Projected plant system degradation and event conditions
	11.	Establish the following emergency assessment and repair actions:
		Repair/evaluation priorities
		• Estimated repair times
		<ul> <li>Need to authorize mission specific emergency exposure upgrades to 25 Rem TEDE</li> </ul>
		• Authorization for work assignments and reentry
	12.	Notify the DSEO of 50.54(x) use and of the requirement to notify the NRC of the departure as soon as possible.
		MP-26-EPI-FAP02-001 Rev. 001-01 Page 3 of 4

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Sect	ior	B. Routine Activities		
	1011			itions and
	13	status on a routine basis.	and projected analyses of plant cond	itions and
	14	•. Verify the MOSC has requested levels in the TSC/OSC.	Site Fire Protection initiate monitor	ing of CO <sub>2</sub>
	15	Brief the NRC Site Team of acti TSC/OSC.	ons taken and planned upon their an	ival in the
Sect	ion	C: Emergency Exposure Controls		
	1.	IF notified by the MRCA that impleat Controls," is needed for emergency of emergency workers, perform the following the followin	mentation of EPI-FAP09, "Radiatior exposure increases or issuing KI to o lowing:	n Exposure n-site SERO
		• Evaluate the emergency conditio	n.	
		• IF KI is warranted, inform the Date mergency workers.	SEO that KI will be issued to on-site	SERO
		• IF exposure upgrades up to 25 R	em are required, inform DSEO of in	crease.
		• IF exposure upgrades greater that	n 25 Rem are required, obtain DSEC	) approval.
		• Refer To EPI-FAP09-003 and sig	gn and date appropriate form, indicat	ing approval.
	2.	Coordinate the release of contaminat decontamination location.	ted person from site to a designated	
Sect	ion	D: Event Termination and Recover	y Actions	
	1.	Monitor affected unit conditions and the DSEO when appropriate.	l recommend termination to Recover	y actions to
	2.	IF long term damage to the plant has	s not occurred, perform the following	<b>;</b> :
		• Brief TSC/OSC on plant condition	ons allowing termination.	
		• Direct TSC/OSC staff to return f	acilities to pre-emergency state of re	adiness.
		• Record SERO termination in log	book.	
	3.	IF long term damage to the plant has perform the following:	s occurred and Recovery option is se	lected,
		• Brief TSC/OSC on plant condition	ons and entry into Recovery.	
		• Refer To and implement EPI-FA	P14, "Recovery."	
		• Record SERO termination in log	book.	
repared	By:	:		<u>.</u>
		Signature	Print	Date
			MP-26- Rev. 00 Page 4 (	EPI-FAP02-001 1-01 of 4

Docket Nos. 50-245 50-336 50-423 B18725

Attachment 3

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

Emergency Procedures Implementing (EPI) Functional Administrative Procedure (FAP) MP-26-EPI-FAP02-011, "Manager of Security (MOS)" <u>Major Revision 0, Minor Revision 1</u>

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Approval Date

**Effective** Date

# **Manager of Security (MOS)**

This form provides guidance to the Manager of Security for emergency response actions during an event that activates the SERO.

**Section A: Initial Actions** 

 $\Box$ 

- **1**. Key into the TSC/OSC and sign in on TSC Staffing Board.
- **2**. Notify ADTS of arrival in TSC/OSC and obtain a status briefing.
- Initiate a log of significant events and communications on EPI-FAP15-012, "SERO Log Sheet," and log date and arrival time.
- 4. Verify access control of affected areas and buildings has been established, as appropriate.
- **5**. Contact SSS and receive a turnover.
- 6. Conduct an operational check of security base station radio in TSC.
- **7**. Contact the CR-DSEO and determine if Security assistance is required.

#### NOTE

The Shift Manager may choose not to perform a precautionary dismissal or evacuation due to the nature of the threat (e.g., Security-related). These actions shall be implemented as quickly as achievable given the nature of the threat.

8. Provide support for precautionary dismissal or evacuation actions to the CR-DSEO/ADTS, as requested.

a. IF alternate routes are being used, provide instructions to the CR-DSEO/ADTS.

- 9. Refer To and implement SEP 5041, "Security During Emergencies."
- 10. IF applicable, Refer To SDI 612, "Security Reports," and determine whether any NRC reportable conditions exist.
- 11. Establish an open line of communication with CAS and notify of any requirements in SEP 5041, "Security During Emergencies."
- 12. Establish and maintain security posts as directed by the ADTS and consult with MRCA regarding radiological conditions that might impact security operations.

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	1011 2	
U	13.	Indicate locations of "staffed" security posts on Site Map.
	14.	Dispatch security personnel with vital area keys to the OSCAA to provide security support for emergency teams, as necessary.
		NOTE
Su coi	spens npens	ion of safeguards measures should only be instituted when no other means of security satory measures are available.
	15.	IF suspension of safeguards measures becomes necessary, perform the following:
		Consult ADTS on suspending safeguards measures.
		• IF suspension of safeguards measures is approved, notify CAS and request the MOC notify the NRC.
Sec	tion I	B: Recurring Actions
		NOTE
-		
Th act sec Sec the	e AD ions i urity curity reafte	TS may order sheltering, local area evacuation, site evacuation, or other protective in accordance with EPI-FAP08, "Evacuation and Assembly." Advance notice to the force should be provided. Evacuation may be deferred during certain situations (e.g., -related) until the threat is resolved; it should be performed as quickly as possible or based on the nature of the threat.
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Th act sec Sec the	e AD ions i urity curity reafte 1.	TS may order sheltering, local area evacuation, site evacuation, or other protective in accordance with EPI-FAP08, "Evacuation and Assembly." Advance notice to the force should be provided. Evacuation may be deferred during certain situations (e.g., -related) until the threat is resolved; it should be performed as quickly as possible er based on the nature of the threat. A L A R A Security posts may become classified as high radiation areas. IF no constraints exist, Refer To EPI-FAP08, "Evacuation and Assembly," and perform Accountability when directed by the ADTS or upon the declaration of a Sit Area Emergency or General Emergency. Consult with MRCA for appropriate protective measures where security posts are located, if necessary.
Th act sec Sec the	e AD ions i urity vurity reafte 1. 2. 3.	TS may order sheltering, local area evacuation, site evacuation, or other protective in accordance with EPI-FAP08, "Evacuation and Assembly." Advance notice to the force should be provided. Evacuation may be deferred during certain situations (e.g., -related) until the threat is resolved; it should be performed as quickly as possible r based on the nature of the threat. A L A R A Security posts may become classified as high radiation areas. IF no constraints exist, Refer To EPI-FAP08, "Evacuation and Assembly," and perform Accountability when directed by the ADTS or upon the declaration of a Sir Area Emergency or General Emergency. Consult with MRCA for appropriate protective measures where security posts are located, if necessary. Determine need to provide appropriate radiological protection equipment (such as, protective clothing, respirators, and radiological monitoring devices) to security

••

	d non A	: Recurring Actions Refer To and implement SED 5041 "Security During Emergencies" and perform the
	4.	following:
		• Evacuate security posts that may become uninhabitable due to the event.
		• Update "staffed" status markings on Site Map as necessary.
		NOTE
Per: acti	sonne	l accountability results may be requested by the ADTS periodically during SERO n.
	5.	Direct CAS to maintain accountability of personnel in the Protected Area while SERO is activated.
	6.	Maintain open lines of communication with CAS for updates on accountability.
	7.	$\underline{IF}$ the duration of the event continues into the next security shift, perform the following:
		• Direct CAS to prepare a security personnel shift rotation schedule.
		• Provide security personnel shift rotation schedule to the MOR.
	8.	IF necessary, implement shift rotation schedule.
ב	9.	Review emergency worker shift relief and resource plans with the MOR, MRCA, and ADTS considering the following:
		•• The need to initiate access control to the site, (e.g., the gate outside the EOF).
		Relocation of workers
		• Transportation and staging of workers and materials on site
	10.	Consult with the MRCA and ADTS to determine safe areas and conditions by evaluating the threat of hazard levels and hazardous area access restrictions.

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		NOTE
A p leve Em may bee	recaut el unle ergeno y dicta n dete	ionary dismissal of personnel is automatically conducted at the Alert classification ss constraints are in place. An evacuation will be automatically initiated at a Site Area cy or General Emergency unless constraints are in place. A Security-related event the deferral of precautionary dismissal or evacuation until the nature of the threat has rmined.
	1.	IF constraints are in place, discuss the following with the ADTS:
		<ul> <li>Deferring precautionary dismissal or evacuation until the constraint has been resolved.</li> </ul>
		• Developing alternate evacuation routes as appropriate to the constraint.
		• Sheltering actions in place.
	2.	Direct Security personnel to take positions at NAP/SAP to facilitate personnel egress from the Protected Area.
	3.	Consider the following:
		<ul> <li>Staggering release in groups of 20 to 100 to minimize road congestion and exposure.</li> </ul>
		• Establishing traffic control at parking lots, on the access road, and at alternate egress locations, as applicable.
		• SERO personnel will be moving to and from the training/EOF area for about 2 hours following the Alert declaration.
	4.	Provide any special instructions to security personnel at NAP/SAP, or other defined areas of egress, to convey to personnel leaving the site.
		• Use bullhorns or parking lot speakers, as appropriate.
	5.	, Direct Security personnel to monitor and report status of dismissals and evacuations (may use accountability reports).
	6.	Notify Local Police Dispatchers of a Site Evacuation.
	7.	IF personnel are not responding as expected, request the ADTS to repeat the plant page.
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	ion C:	Precautionary Dismissal and Site Evacuation
	8.	Request Security personnel provide updates on the following:
		Movement of personnel
		Occupancy of sheltering
		Assembly points
		Potential or actual problems
	9.	Develop station reentry plan with the MRCA for SERO personnel requiring site access.
Sect	ion D:	Search and Rescue Actions
	1.	IF personnel injuries are reported and off-site emergency assistance is requested, inform the ADTS of the situation.
		NOTE
Onl bee	ly the M n taker	MOSC can deploy, direct, or redirect emergency teams once this responsibility has a over from the CRDSEO/MCRO.
	2.	Ensure the following:
		• MOSC has sufficient security personnel for search and rescue teams.
		<ul> <li>MOSC has sufficient security personnel for search and rescue teams.</li> <li>Security support for entry into Vital Areas has been arranged.</li> </ul>
	3.	<ul> <li>MOSC has sufficient security personnel for search and rescue teams.</li> <li>Security support for entry into Vital Areas has been arranged.</li> <li><u>IF</u> notified of a station request for an ambulance, Refer To and implement SEP 5034, "Medical Emergencies."</li> </ul>
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Attachment 4

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

Emergency Procedures Implementing (EPI) Functional Administrative Procedure (FAP) MP-26-EPI-FAP03, "Operational Support Center Activation and Operation" <u>Major Revision 1</u>

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Functional Administrative Procedure



**Millstone Station** 

# Operational Support Center Activation and Operation MP-26-EPI-FAP03

# **Rev. 001**

6/26/02 Approval Date:

Effective Date: 7/19/02



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MP-26-EPI-FAP03-002, "Assistant Radiation Protection Supervisor (ARPS)"
MP-26-EPI-FAP03-003, "Manager of Operational Support Center (MOSC - OSC AA)"
MP-26-EPI-FAP03-004, "CBETS Operator"

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#### 1. <u>PURPOSE</u>

#### 1.1 Objective

This procedure provides guidance to Station Emergency Response Organization (SERO) personnel who report to the TSC/OSC and the OSC Assembly Area (OSC AA) during an event.

#### 1.2 Applicability

Activation of the TSC/OSC and OSC Assembly Area is initiated upon declaration of an ALERT, Posture Code Charlie-One, or higher event.

#### **1.3** Supporting Documents

EPI-FAP02, "Technical Support Center Activation and Operation"

EPI-FAP09, "Radiation Exposure Controls"

EPI-FAP15, "Common Forms"

C OP 200.3, "Response to Medical Emergencies"

WC 4, "Confined Space Entry"

#### 1.4 Discussion

- 1.4.1 Upon declaration of an Alert (Charlie One) or higher, the goal for OSC/OSC AA activation (minimum staffing) is within 60 minutes of event notification.
- 1.4.2 OSC Assembly Area
  - a. OSC Assembly Area (Building 475, Cafeteria) is used to assemble SERO personnel until they are needed to perform assessment, repair, or search and rescue operations.
  - b. OSC Assembly Area is contacted via the direct ring down phone line or conference line from the TSC/OSC for status updates and to direct personnel be assembled for team formation.
  - c. In the event of degrading radiological conditions, personnel assigned to the OSC Assembly Area may be evacuated to an alternate habitable area.
- 1.4.3 Emergency Team Deployment
  - a. Emergency team deployment goal is 15 minutes from request. Emergency team deployment and entry into Radiological Controlled Areas must be authorized by the ADTS.
  - b. The MOSC should initiate team preparation and briefing prior to receiving ADTS deployment approval.

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- c. The ADTS may issue blanket deployment authorization while plant conditions are *not* constrained. However, team deployment and entry into Radiologically Controlled Areas must be authorized by the ADTS.
- d. EPI-FAP15-010, "Emergency Team Briefing Sheet," replaces station AWOs and augments RWPs. Normal Station safety tagging processes remain in effect if possible.
- e. Emergency teams may be deployed prior to TSC/OSC activation by the CR DSEO. The CR-DSEO will provide a status of deployed teams from the CR to the ADTS during turnover.
- f. The ADTS should notify the MCRO of emergency teams deployed from the OSC AA.
- 1.4.4 Refer To Attachment 1 for Definitions/Abbreviations and Attachment 2 for applicable responsibilities.

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#### 2. INSTRUCTIONS

2.1 Refer To and complete the following, as applicable:

## NOTE

Steps in the position specific checklists may be performed in any order, or more than once, as necessary.

- EPI-FAP03-001, "Manager of Operational Support Center (MOSC TCS/OSC)"
- EPI-FAP03-002, "Assistant Radiation Protection Supervisor (ARPS)"
- EPI-FAP03-003, "Manager of Operational Support Center (MOSC OSC AA)"
- EPI-FAP03-004, "CBETS Operator"
- 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.

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#### 3. <u>SUMMARY OF CHANGES</u>

#### 3.1 Rev. 001

- 3.1.1 Added acronym for OSC AA to steps 1.1 and 1.4.1.
- 3.1.2 Modified procedure number COP 200.3 in step 1.3.
- 3.1.3 Deleted reference to Unit 3 FSAR in step 1.3.
- 3.1.4 Added the OSC AA as requiring activation in 60 minutes to step 1.4.1.
- 3.1.5 Added a conference line as a contact point in step 1.4.2.b.
- 3.1.6 Changed "Operations" to "Operational" Support Center through the procedure.
- 3.1.7 Deleted reference to "PASS" and "PASS Team" in Attachment 1.
- 3.1.8 Added TSC/OSC to Attachment 2 (MOSC-TSC/OSC).
- 3.1.9 Added discussion on MOSC-OSC AA to Attachment 2.
- 3.1.10 Clarified OSC Assistant responsibilities in Attachment 2.

#### 3.2 Rev. 000

3.2.1 Original issue

# Attachment 1 Definitions and Abbreviations

(Sheet 1 of 1)

ADTS - Assistant Director Technical Support

**ARPS** - Assistant Radiological Protection Supervisor

Constraints - Conditions that prevent or interfere with the performance of actions.

Deploy - Send teams or materials to appropriate locations

MCRO - Manager of Control Room Operations

Minimum staff - Positions required in the facility staffing before activation may occur.

MOSC - Manager of Operational Support Center

**OSC** - Operational Support Center

**PPAD** - Personnel Protective Action Decisions

Site Fire Protection Leader - Fire Brigade Captain

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# Attachment 2 Responsibilities

(Sheet 1 of 2)

## 1. Manager of Operational Support Center (MOSC-TSC/OSC)

The MOSC reports directly to the ADTS. The unaffected Unit MOSC will assume the lead role until the affected Unit MOSC arrives. For Unit 1 events, the Unit 2 MOSC will assume the lead role. The MOSC is responsible for the following:

- Activation, command, and control of OSC
- Initiating assembly of emergency teams
- Evaluating plant equipment and conditions
- Coordinating activities in accordance with the priorities assigned by the ADTS
- Coordinating in-plant team activities/locations
- Ensuring assigned staff are accounted for at all times during the event.
- 2. Manager of Operational Support Center (MOSC-OSC AA)

The MOSC-OSC AA reports to the MOSC-TSC/OSC and is responsible for the following:

- Activation, command, and control of OSC AA.
- Briefing and debriefing of emergency teams.
- Updating MOSC-TSC/OSC on data received from emergency teams.
- Providing input to MOSC-TSC/OSC on repair priorities and activities.
- 3. Assistant Radiation Protection Supervisor (ARPS)

The ARPS reports to the MRCA and coordinates with the MRCA on establishing radiological controls. The ARPS is responsible for:

- Providing radiological controls within the TSC/OSC and OSC Assembly Area.
- Conducting radiological briefings for emergency teams.
- Providing radiological support for dispatched emergency teams.
- Interfacing with RMT-1 on status of radiological conditions and teams dispatched from the Control Room.

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# Attachment 3 Responsibilities

(Sheet 2 of 2)

## 4. Operational Support Center (OSC) Assistants

The OSC Assistants report directly to the MOSC. They are responsible for OSC AA staffing and accountability, ensuring emergency teams are adequately briefed, maintaining communications with teams upon dispatch, and updating status boards.

## 5. CBETS Operator

The CBETS Operator reports to the MRCA. The position is responsible for tracking exposures of SERO personnel, dosimetry issuance, and assisting in the administrative activities for exposure upgrades and KI distribution.

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Attachment 5

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

Emergency Procedures Implementing (EPI) Functional Administrative Procedure (FAP) MP-26-EPI-FAP03-001, "Manager of Operational Support Center (MOSC) – TSC/OSC" <u>Major Revision 1</u>

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## Manager of Operational Support Center (MOSC) - TSC/OSC

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

#### Section A: Initial Actions

- **1**. Key into the TSC/OSC.
- Sign in on TSC/OSC Staffing Board and log date and arrival time on the SERO Log Sheet.
- 3. Maintain a log of significant events and communications on the SERO Log Sheet.
- 4. Consult with ADTS or CR DSEO and receive a briefing on conditions, priorities and any teams dispatched by the control room prior to OSC activation.
  - **5**. Brief OSC staff on current plant and radiological conditions.
  - 6. Designate OSC Assistant(s) to remain in OSC and dispatch remaining OSC Assistants to the OSC Assembly Area to coordinate resources and brief teams.
- **7**. Obtain names and position titles of SERO personnel in OSC Assembly Area.
  - 8. Verify OSC staff perform the following:
    - Key into TSC/OSC or OSC Assembly Area card reader.
    - Frisk upon entry to OSC, as applicable.
    - Enter name on minimum staffing board.
    - Maintain status boards and logs.
    - Establish and maintain communications with the OSC AA.
    - Maintain awareness of event classification and constraints.
- 9. Notify the ADTS when OSC activation staffing requirements are met.
- **10.** Brief the OSC Assembly Area personnel on current plant conditions and classification.
- □ 11. Contact the OSC AA and request Site Fire Protection personnel report to the TSC/OSC and establish CO<sub>2</sub> monitoring.

Section .	A: Initial Actions
12	IF a site evacuation is initiated, perform the following:
	• Provide Security the names, EIDs, and locations of emergency team personnel in the field.
	• Notify OSC AA of the evacuation directive.
<b>D</b> 13	Consult with the ADTS or CR DSEO, as necessary, to determine the following:
	• Description and priority of assignments.
	• Authorization for deployment of emergency team.
<b>1</b> 4.	Notify the ADTS of the time and location of emergency teams dispatched.
15.	<u>WHEN</u> informed of a fire, hazardous material spill, or medical emergency inside the Protected Area, perform the following:
	• Verify the control rooms and Site Fire Protection have been notified of the emergency, including the nature and location of emergency.
	<ul> <li>Determine the need to dispatch an OSC Assistant or Health Physics Technician to the scene to interface with the Site Fire Protection Leader.</li> </ul>
	• Notify the ADTS.

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# Section B: Recurring Actions

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		NOTE
On-	shift Pl	EOs remain under the direction of the MCRO, unless released to the OSC.
D	1.	Track the response of needed OSC/OSC AA SERO personnel and notify the ADTS when all positions are filled.
	2.	WHEN emergency team is requested, Perform the following:
		• Consult with the ADTS to determine the description and priority of the assignment, as necessary.
		<ul> <li>Notify the OSC AA to assemble a team, complete a EPI-FAP15-010, "Emergency Team Briefing Sheet," and initiate team briefing.</li> </ul>
		• Obtain ADTS authorization and direct the OSC AA to dispatch the team.
		• Notify the ADTS of the emergency team dispatch time and destination once deployed.
	3.	Contact the OSC AA and verify the OSC Assistant has established communications with emergency team leader at 15 to 30 minute intervals (or as required by the situation) and is updating the team on plant and radiological conditions.
	4.	Update location and status of emergency teams on status board.
	5.	Direct OSC Assistant to perform the following when emergency teams return:
		• Complete the debriefing section of EPI-FAP15-010, "Emergency Team Briefing Sheet," and retain all forms when completed.
		• Contact the MOSC and brief on results (fax debrief form if appropriate).
		• Update log and status board.
	6.	Notify the ADTS of results of each emergency team assignment.
	7.	Consult ADTS periodically to review current conditions, priorities, and emergency team status.
•	8.	Provide periodic updates to OSC and OSC AA staff on plant and radiological conditions and review roles and responsibilities.
	9.	Develop relief shift plan with MOR and OSC Assistants.

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Sect	tion B:	Recurring Actions		
	10.	Arrange for delivery of the following OSC ma sustain the following on-site operations:	aterials, as required, w	vith MOR to
		• Repair equipment and supplies		
		• Radiological and decontamination supplie	es	
		Protective clothing		
		SCBA refills		
		• Fire-fighting equipment		
	11.	IF the OSC AA is determined to be uninhabit ADTS to determine an alternate location.	table, consult with the	MRCA and
Sect	tion C:	Termination		
	1.	WHEN event termination is initiated by the I	OSEO, perform the fol	lowing:
		• Recall and debrief teams (ensure work is in a safe configuration and documented p	completed, systems/co rior to securing activit	omponents are ties).
		• Record event termination on the SERO L	og Sheet.	
		• Review log sheets and forms and ensure a made.	all appropriate entries	have been
		• Collect procedure sections and team brief	ing sheets.	
		• Place MOSC Notebook and materials on	MOSC desk.	
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Attachment 6

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

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

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6/26/02

Approval Date

Effective Date

# **Assistant Radiation Protection Supervisor (ARPS)**

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

### Section A: ARPS Initial Actions

- Key into the OSC Assembly Area. 1.
- Obtain current plant and radiological status briefing from one of the following: 2.
  - MRCA a)
  - MOSC b)
  - ADTS c)
- Enter date and arrival time on the Log Sheet. 3.
- Establish and maintain a log of activities. 4.
- Assess habitability of the OSC AA. 5.
  - Contact the following facilities and verify AMS-3 or radiological monitor is 6. operational:
    - TSC/OSC
    - EOF

- NAP/SAP
- CAS
- SAS
- Assess radiation protection support needed for emergency teams deployed from the 7. Control Room.
- Direct the CBETS Operator identify available exposures for RMTs and emergency 8. team personnel.

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Sect	tion B:	Recurring Actions		
	1.	Monitor habitability of the TSC/OS	C and OSC Assembly Are	a.
	2.	Refer To EPI-FAP15-010, "Emerger following to emergency teams await	ncy Team Briefing Sheet,' ing dispatch:	and provide the
		Radiological briefing		
		• Equipment		
		HP Support		
	3.	Notify the MRCA if an exposure up	grade is needed for any te	am member.
	4.	Work with the CBETS Operator and	l track SERO exposure.	
	5.	Monitor exposure and radiological c deployed from the OSC AA.	onditions identified by en	nergency teams
	6.	Coordinate the implementation of Po MRCA and MOSC.	ersonnel Protective Action	n Decisions with the
	7.	Identify the need for additional reso	urces to the MRCA.	
	8.	Notify the MRCA of on-site radiological reported by the deployed teams.	gical conditions and accur	mulated dose as
Prepared	d by:			
-	-	Signature	Print	Date
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				MP-26-EPI-FAP03-002 Rev. 001 Page 2 of 2

Attachment 7

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

Emergency Procedures Implementing (EPI) Functional Administrative Procedure (FAP) MP-26-EPI-FAP03-003, "Manager Operational Support Center – OSC AA" <u>Major Revision 1</u>

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6/28/n2 Approval Date

Effective Date

# **Manager Operational Support Center - OSC AA**

This form provides guidance to the MOSC/OSC Assistants to coordinate OSC Assembly Area actions during a declared emergency that activates the SERO.

#### **Section A: Initial Actions**

1. Key into OSC Assembly Area.

**2**. Direct SERO staff to key in to the OSC Assembly Area.

## NOTE

Minimum staffing requirements need to be met within 60 minutes. Due to a large number of SERO reporting to OSC AA, a second OSC Assistant may be needed to develop a list of personnel. The OSC Assistant developing the list of personnel needs to focus initially on mechanic, electrician, I&C technician positions, and GES because these are minimum staffing position requirements.

- **3**. Ensure the following activities have been assigned to the OSC AA staff:
  - Establishing and maintaining communications with the OSC.
  - Updating status boards.
  - Developing and maintaining a roster of names and titles of personnel in the OSC AA.
  - Briefing and debriefing emergency teams.
- 4. Contact the OSC and provide names and position titles of SERO personnel in the OSC AA.

**5**. Instruct other assembled personnel to maintain accountability as follows:

- Key in to the OSC AA key card reader.
- Assemble by normal job function within the OSC AA.
- Limit noise to a minimum.

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	N	DTE	
Integrated operation: assigned t	l briefings should be conducted prior al, radiological, security, and any oth ask(s).	to team deployment. Briefings sho er specific information that relates	uld include to the
EPI-FAP: RWPs. N	15-010, "Emergency Team Briefing S ormal Station safety tagging processe	heet," replaces station AWOs and s remain in effect if possible.	augments
<b>1</b> .	Assemble, brief, and deploy teams	, as follows:	
	• Assign Team designator by us	e of sequential alphabetic letter (i.e	. A, B, C,)
	• Complete EPI-FAP15-010, "E	mergency Team Briefing Sheet."	
	• Conduct team briefing.		
	• Ensure the ARPS covers radio	logical information.	
	• <u>IF</u> team is entering containment either RPM 2.7.1, "Entry to U U3 Containment," for steps ap	It, review OP 3212, "Containment 1 2 Containment," or RPM 2.8.1, "In plicable to emergency situation.	Entry," and itial Entry to
	• Provide the team a copy of the	completed EPI-FAP15-010 form.	
	• Contact the OSC and verify th	e ADTS has authorized the team di	spatch.
	• Establish communications wit	n the team at designated intervals.	
	• Notify OSC of time of team di	spatch.	
	• Fax a completed copy of the E	PI-FAP15-010 form to the OSC.	
	• Debrief the team upon return.		
	• Fax the completed debrief for	n to the OSC, as appropriate.	
	• Contact and update the OSC o	n results of debrief.	
<b>2</b> .	Ensure communications are maint following with assembled personr	ained with the OSC and periodicall el:	y review the
	• Event classification.		
	• General plant conditions and e	vents in progress.	
	• Shift relief schedules and assign	inments.	
	OSC Assembly Area habitabil	ity issues.	
pared by:			
-	Signature	Print	Date

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Attachment 8

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

Emergency Procedures Implementing (EPI) Functional Administrative Procedure (FAP) MP-26-EPI-FAP03-004, "CBETS Operator" <u>Major Revision 1</u>

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•	02/13/02 Approval Date							02/14 Effect	1/02 ive Date
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**Effective** Date

# **CBETS** Operator

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

#### **Section A: Initial Actions**

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

#### Section B: Recurring Actions

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

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		NOTE						
Mar are	nual er eventu	try is acceptable if it helps promote prompt deployment of teams, provided reports ally updated (10 CFR 20.1001).						
If C	CBETS is not available, exposures must be listed manually.							
If w	orker	is not on dosimetry list, the MRCA must authorize access.						
	<ul> <li>Include exposure received while performing emergency work in each worker's routine exposure record and history.</li> </ul>							
	8.	IF requested, assist in the issuance of dosimetry to emergency response personnel as appropriate:						
		Thermoluminescent Dosimeter						
		Low Range Pocket Ion Chamber (PIC)						
		High Range PIC						
		Extremity Dosimetry						
		Electronic Personnel Dosimetry						
	9.	Maintain dosimetry issue and radiation exposure control records.						
	10.	<u>WHEN</u> each worker's dose results are received, enter it and other information on file.						
	11.	Collect and maintain all approved ÈPI-FAP09-003 documents.						
Sect	ion C:	Use of EasyEPD2 to Modify EPD Setpoints						
		NOTE						
The	follov	ving instructions are to be used to modify EPD setpoints if the need arises.						
	1.	Ensure either the ARPS or MRCA has authorized setpoint modifications.						
	2.	Upon accessing the EasyEPD2 program from the icon, enter "cbets" (lowercase sensitive) for username and password.						
	3.	Insert an EPD that is already logged onto RWP 32 from the OSC AA or TSC area.						
		ND 26 EDI EADO2 004						
		Rev. 001						

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	L.	As dire	ected by the MRCA/AR	PS, input the following values:	
	-	•	Dose Alarm Threshold same value.)	ds (All three fields in that column	should have the
		٠	Rate Alarm Threshold	ls	
			• Input the "On" activates. (All value.)	" values first. This is the value the three fields in that column should	e dose rate alarm l have the same
			• Input the "Off alarm silences three fields in	" values last. This is the value the and is typically set to 90% of the that column should have the same	at the dose rate "On" value. (All e value.)
				NOTE	
The m	nodifi	ed value	es will change to the col	or of blue to signify the edit mode	e.
	5.	Write	the modified values to t	the EPD by performing the follow	ving:
—		•	Select the "Write to E	EPD" toolbar icon (2 <sup>nd</sup> from the le	ft), or
		•	Select "File" and then	n select "EPD Write."	
				NOTE	
Do no	ot sele	ct any o	of the clear button functi	NOTE ions. That will cause doses to zer	0.
Do no	ot sele	ct any o Verify	of the clear button functi	NOTE ions. That will cause doses to zer- e EPD by performing the followin	o. g:
Do na	ot sele 6.	ct any o Verify	of the clear button functi y changes by reading the Select the "Read EPD	NOTE ions. That will cause doses to zero e EPD by performing the followin O" toolbar icon (1 <sup>st</sup> from the left),	o. g: or
Do no	ot sele	Verify	of the clear button function with changes by reading the Select the "Read EPD Select "File" then select	NOTE ions. That will cause doses to zero e EPD by performing the followin O" toolbar icon (1 <sup>st</sup> from the left), ect "EPD Read."	o. g: or
Do na	ot sele 6. on D:	Ct any o Verify • • • • •	of the clear button functi y changes by reading the Select the "Read EPD Select "File" then sele mation	NOTE ions. That will cause doses to zero e EPD by performing the followin O" toolbar icon (1 <sup>st</sup> from the left), ect "EPD Read."	o. g: or
Do na	ot sele 6. on D: 1.	verify • • • • • • • • • • • • • • • • • • •	of the clear button function y changes by reading the Select the "Read EPD Select "File" then select the select select 10 CFR 50.47.b(11) is and apply to individual	NOTE ions. That will cause doses to zero e EPD by performing the followin O" toolbar icon (1 <sup>st</sup> from the left), ect "EPD Read." emergency exposures from occup al's Planned Special Exposure rec	o. g: or pation exposure cord per 10 CFR 20.
Do na Do na Sectio	ot sele 6. on D: 1. 2.	Ct any o Verify • • Termin Subtra record WHE	of the clear button function y changes by reading the Select the "Read EPD Select "File" then select mation act 10 CFR 50.47.b(11) is and apply to individua <u>N</u> final results are availa	NOTE ions. That will cause doses to zero e EPD by performing the followin O" toolbar icon (1 <sup>st</sup> from the left), ect "EPD Read." emergency exposures from occup al's Planned Special Exposure reco able, report total and available exp	o. g: or pation exposure cord per 10 CFR 20. posures to workers.
Do na Do na Sectio	ot sele 6. on D: 1. 2. 3.	Verify  Verify  Termin Subtra record <u>WHE</u> Secure exitin	of the clear button function y changes by reading the Select the "Read EPD Select "File" then select mation act 10 CFR 50.47.b(11) is and apply to individua <u>N</u> final results are available e computerized dosimettor g PREM through the matical	NOTE ions. That will cause doses to zero e EPD by performing the followin O" toolbar icon (1 <sup>st</sup> from the left), ect "EPD Read." emergency exposures from occup al's Planned Special Exposure rec able, report total and available exp try system by closing window to F enu process.	o. g: or pation exposure cord per 10 CFR 20. posures to workers. PREM program after
Do na Do na Sectio	ot sele 6. on D: 1. 2. 3. 4.	Verify  Verify  Termin Subtra record WHE Secure exitin Send a	of the clear button function y changes by reading the Select the "Read EPD Select "File" then select mation act 10 CFR 50.47.b(11) is and apply to individual M final results are available e computerized dosimettor g PREM through the moduli and completed records to all completed records to	NOTE ions. That will cause doses to zero e EPD by performing the followin O" toolbar icon (1 <sup>st</sup> from the left), ect "EPD Read." emergency exposures from occup al's Planned Special Exposure rec able, report total and available exp try system by closing window to F enu process.	o. g: or pation exposure cord per 10 CFR 20. posures to workers. PREM program after g by Health Physics
Do no Do no Section Section Called a a a a a a a a a a a a a a	ot sele 6. on D: 1. 2. 3. 4. oy:	Verify  Verify  Termin Subtra record WHE Secure exitin Send	of the clear button function y changes by reading the Select the "Read EPD Select "File" then select mation act 10 CFR 50.47.b(11) is and apply to individual <u>N</u> final results are available e computerized dosimett g PREM through the me all completed records to	NOTE ions. That will cause doses to zero e EPD by performing the followin O" toolbar icon (1 <sup>st</sup> from the left), ect "EPD Read." emergency exposures from occup al's Planned Special Exposure reco able, report total and available exp try system by closing window to F enu process.	o. g: or pation exposure cord per 10 CFR 20. posures to workers. PREM program after g by Health Physics

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Attachment 9

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

Emergency Procedures Implementing (EPI) Functional Administrative Procedure (FAP) MP-26-EPI-FAP06-001, "Millstone Unit 1 Emergency Action Levels" <u>Major Revision 1</u>

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Approval Date		Millstone Unit	<b>1 Emergency Action Lev</b>	<u>vels</u>		
UNUSUAL EVENT D IN-PLANT RADIATION	ELTA ONE UNUSUAL EVE SECURITY THREAT/ DESTRUCTIVE PHENOMENA	INT DELTA TWO	ALERT CHARLIE ONE FUEL POOL EQUIPMENT FAILURE	UNPLANNED OFFSITE RELEASES		
RA1 REACTOR BUILDING RADIATION (D-AA2)	TA1 SECURITY EVENT (D-HA1)			OA1 OFFSITE DOSE (D-AA1)	JA1	
<ol> <li>Area radiation monitor reading in Reactor Building or survey results indicate an UNCONTROLLED increase in radiation levels by 100 mR/hr that is not the result of a planned evolution AND impedes operation of systems needed to maintain spent fuel integrity.</li> <li>Valid radiation monitor reading or survey results indicate greater than 15 mR/hr in areas required to be occupied 24 hours a day.</li> </ol>	<ol> <li>Any on-going or imminent security compromise to the safety of the plant.</li> <li>TA2 DESTRUCTIVE PHENOMENA (N/A)</li> <li>An event that damages systems, structures, or components needed to maintain spent fuel integrity that may result in overexposure of site personnel or results in an uncontrolled decrease in the spent fuel pool water level or damage to spent fuel.</li> </ol>			<ul> <li>radioactivity (liquid or gaseous) to the environment ≥200 times REMODCM release limit for ≥15 minutes.</li> <li>2. Grab sample analyses indicate unplanned gaseous release rate or liquid concentration ≥200 times the REMODCM limit for ≥15 minutes.</li> </ul>	Any judge of sa or ot main spen degre Stati Orga	
RU1 REACTOR BUILDING RADIATION (D-AU2)	TU1 SECURITY EVENT (D-HU1)	GU1 FIRE (D-HU3)	EU1 FUEL POOL LEVEL (D-SU1)	OU1 UNPLANNED RELEASES (D-AU1)	JU1	
Area radiation monitor reading in Reactor Building or survey results indicate an UNCONTROLLED increase in radiation levels by 25 mR/hr that is not the result of a planned evolution.	<ol> <li>Security events as determined for Station Safeguards Contingency Plan and reported by Security Shift Supervision.</li> <li>A credible site-specific security threat notification.</li> </ol>	Fire in the Reactor Building or other areas important to maintaining the integrity of the spent fuel NOT extinguished within 15 minutes of Control Room notification OR within 15 minutes of the fire alarm actuation in the Control Room.	Uncontrolled decrease in fuel pool level indicated by a low level alarm actuation with all spent fuel assemblies remaining covered by water.	<ol> <li>Gaseous effluent monitor in alarm for ≥60 minutes OR unplanned, unmonitored, or uncontrolled offsite liquid release ≥ 2 times REMODCM limits for ≥ 60 minutes.</li> </ol>	Any judge or ac of sa or ot mair spen	
	<ul> <li>TU2 DESTRUCTIVE PHENOMENA (D-HU3)</li> <li>1. Earthquake detected per ONP 514C, Earthquake.</li> <li>2. Report of tornado striking within the Protected Area (PA) that has the potential to affect equipment needed to maintain spent</li> </ul>	GU2 TOXIC/FLAMMABLE GASES (D-HU3)         1. Life threatening toxic gases OR flammable gas concentrations as identified in C-OP 200.5, "Oil, Hazardous Material, Hazardous	TEMPERATURE (D-SU1) Uncontrolled heatup of the spent fuel pool such that the bulk pool temperature exceeds 150° F.	<ol> <li>Grab sample analyses indicate unplanned gaseous release rate or liquid concentration ≥ 2 times the REMODCM limit for ≥60 minutes.</li> </ol>		
	<ol> <li>fuel integrity.</li> <li>On-Site sustained wind speed &gt;75 mph.</li> <li>Explosion or visible damage to structures, systems, or components within the Protected Area with the potential to affect equipment required to maintain the integrity of the spent fuel.</li> <li>Flood Level &gt;19 Feet Mean Sea Level.</li> <li>Vehicle crash within the PA that could potentially affect equipment needed to maintain spent fuel integrity.</li> </ol>	<ul> <li>Waste and Mixed Waste Contingency Plan," affecting activities in areas needed to maintain spent fuel integrity.</li> <li>2. Notification of a near-site release that may require evacuation of MP1.</li> </ul>	AR • Ro flo • Ho • Ho	AREAS NEEDED TO MAINTAIN SPENT F INTEGRITY Reactor Building - 4 <sup>th</sup> and 5 <sup>th</sup> Floors Reactor Building, Fuel Pool Pump Mezza floor H&V Room - Lower Level (DHR) H&V Room - Roof - Coolers		

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#### 7/19/02

## Effective Date



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Attachment 10

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

Emergency Procedures Implementing (EPI) Functional Administrative Procedure (FAP) MP-26-EPI-FAP06-002, "Millstone Unit 2 Emergency Action Levels" <u>Major Revision 1, Minor Revison 2</u>

•	MILLSTONE UNIT 2 EM	IERGENCY ACTION LEVEL	S 5/30/02 APPROVAL DATE	
-	GENERAL EMERGENCY ALPHA 📗 G	ENERAL EMERGENCY BRAVO 📕 SITE AREA B	EMERGENCY	UNUSUAL EVENT D
	BARRIER FAILURE	LOSS OF POWER	EQUIPMENT FAILURE	OFFSITE RELE
BG1	ALL THREE BARRIERS Mode 1, 2, 3, 4	PG1 STATION BLACKOUT Mode 1, 2, 3, 4	EG1 ATWS/INADEQUATE COOLING Mode 1	OG1 OFFSITE DOSE
	See Barrier Failure Reference Table	<ul> <li>Loss of Voltage on Buses 24C AND 24D AND ANY of the Following:</li> <li>Restoration of Power to AT LEAST One Vital Bus is NOT Likely Within Four Hours</li> <li>Gore Exit Thermocouple Readings Indicate Superheat</li> <li>Inadequate SG Heat Removal Capability as Indicated by SG Water Level &lt; 10% in BOTH SGs AND Inadequate Terry Turbine Feedwater Flow</li> </ul>	Functional Recovery of Reactivity Control Ineffective AND EITHER of the Following: • RCS Heat Removal by Steam Generator Heat Removal SFSC Criteria Car NOT Be Satisfied • Core Exit TC Temperature Readings > 800°F	<ol> <li>MP2 Kaman Vent Monitor (RM-8168) for &gt; 15 Minutes</li> <li>MP2 WRGM Sile Stack Effluent Activi Reading ≥ 30 nCi/Cc for &gt; 15 Minutes</li> <li>MSL Monitor (RM-4299/A/B/C) Read for &gt; 15 Minutes</li> <li>Measured Plume Dose Rate OnSite ≥ for &gt; 15 Minutes</li> <li>Rad Assessment Determines Integrat ≥ 1 Rem TEDE OR ≥ 5 Rem CDE Thy</li> </ol>
BS1	ANY TWO BARRIERS   Mode 1, 2, 3, 4   See Barrier Failure Reference Table   FUEL CLAD OR RCS BARRIER   Mode 1, 2, 3, 4   See Barrier Failure Reference Table   STEAM LINE BREAK   Mode 1, 2, 3, 4   Unisolable Steam Line Break Outside CTMT	PS1       STATION BLACKOUT       Mode 1, 2, 3, 4         Loss of Voltage on Buses 24G AND 24D > 15 Minutes         PS2       LOSS OF DC       Mode 1, 2, 3, 4         Loss of Voltage on DC Buses 201A AND 201B > 15 Minutes         Loss of Voltage on DC Buses 201A AND 201B > 15 Minutes         PA1       STATION BLACKOUT       Mode 5, 6         Loss of Voltage on Buses 24C AND 24D > 15 Minutes         PA2       SINGLE AC POWER SOURCE       Mode 1, 2, 3, 4         Only One AC Power Source Available to Supply Buses 24C       AND/OR 24D > 15 Minutes Such That Loss of That Power Source Would Result in a Station Blackout (Unit 3 Buses 34A/B CANNOT be Credited)       Image: Comparison of the	ES1       ATWS       Mode 1         Manual Reactor Trip Attemp red At Panel C04 AND Reactor Is       Not Shutdown         SNOT Shutdown       ES2       INABILITY TO MAINTAIN HOT S/D       Mode 1, 2, 3, 4         1       No RCS heat Removal Wathod Meets SFSC Criteria > 15 Minutes AND Shutdown Cooling is N 3T In Service       2         2       RCS Boration Capability Unable to Eliminate Inadvertent Criticality         ES3       IN-VESSEL FUEL UNCOVERY       Mode 5, 6         Shutdown Cooling Has       Seen Lost AND ANY of the Following Conditions Exist;         •       Alternate Methods for restoring RCS Inventory are NOT Effective         •       RVLMS Reading = 0%         •       Corde Exit TC Temperature Readings Indicate Superheat         ES4       LOSS OF ANNUNCATORS/TRANSIENT       Mode 1, 2, 3, 4         Loss of Most (75%) MCB Aniunciators AND BOTH of the Following       Significant Transient in Progress         •       Loss of SPDS AND ICC Instrumentation       Mode 1, 2         Failure of Automatic Reactor Trip AND Manual Trip Was Successful       EA2       INABILITY TO MAINTAIN COLD S/D       Mode 5, 6         1.       Uncontrolled RCS Temperature Increase > 10°F That Results in RCS Temperature > 200°F       Inadvertent Criticality       EA3       LOSS OF ANNUNCIATORS/ TRANSIENT       Mode 1, 2, 3, 4         Loss of Most (75%) MCB Annuncia	OS1         OFFSITE DOSE           1         MP2 Kaman Vent Monitor (RM – 8168) F for > 15 Minutes           2         MP2 WRGM Site Stack Effluent Activity ≥ 10 nCroc for > 15 Minutes           3         MSL Monitor (RM – 4299A/B/C) Reading for > 15 Minutes           4         Measured Prime Dose Rate Onsite ≥ 5 for > 15 Minutes           5         Rad Assessment Determines Integrated ≥ 0.95 Rem TEDE OR ≥ 0.25 Rem CDF           1         MP2 Kaman Vent Monitor (RM – 8168) F for > 15 Minutes           2         MP2 Kaman Vent Monitor (RM – 8168) F for > 15 Minutes           2         MP2 WRGM Site Stack Effluent Activity ≥ 1 µC/cc for > 15 Minutes           3         MSL Monitor (RM – 4299A/B/C) Reading for > 15 Minutes           4         Measured Plume Dose Rate Onsite ≥ 5 for > 15 Minutes           5         Rad Assessment Determines Integrated ≥ 0.005 Rem TEDE OR ≥ 0.025 Rem C
BU2 1. 2. 3. BU3 1. 2.	CTMT BARRIER       Mode 1, 2, 3, 4         See Barrier Failure Reference Table         RCS LEAKAGE       Mode 1, 2, 3, 4         Pressure Boundary Leakage > 10 GPM         Unidentified Leakage > 10 GPM         dentified Leakage > 25 GPM         FUEL CLAD DEGRADATION       Mode ALL         RCS Activity > 60 $\mu$ Ci/gm I-131 DEQ         Dose Rate at One Foot from Unpressurized RCS         Sample $\geq$ 2 mR/hr/ml	PU1       LOSS OF OFFSITE POWER       Mode ALL         Buses 24C AND 24D Are Powered from Emergency Generators AND Offsite Power NOT Restored Within 15 Minutes         PU2       LOSS OF DC       Mode 5, 6         Loss of Voltage on DC Buses 201A AND 201B > 15 Minutes	Loss of SPDS AND ICC Instrumentation      EU1 LOSS OF COLD S/D FUNCTION Mode 5. 6      Loss of Shutdown Cooling > 15 Minutes AND Refuel Pool Water Level < 35 Ft., 6 In.      Uncontrolled RCS Temperature Increase > 10°F     RCS Boron Concentration < Minimum Required      EU2 REFUEL/SPENT FUEL POOL LEVEL Mode 6      Uncontrolled Spent Fuel Pool Water Level Decrease Causing Loss of Cooling Suction Flow      Uncontrolled Refuel Pool Water Level Decrease Requiring Containment Evacuation AND All Spent Fuel Assemblies in Safe Storage Locations      EU3 LOSS OF ANNUNCIATORS Mode 1, 2, 3, 4      Loss of Most (75%) MCB Annunciators > 15 Minutes AND SPDS OR     ICC Instrumentation Available      EU4 LOSS OF COIMMUNICATIONS Mode ALL      Loss of ALL Onsite Electronic Communications Methods      Loss of ALL Electronic Communications Methods With     Government Agencies      EU5 SHUTDOWN LCO EXCEEDED Mode 1, 2, 3, 4	OU1 UNPLANNED RELEASE Effluent Monitors in Alarm OR Unplanned, Un Uncontrolled Offste Release AND DELTA-TW as Determined from EPI – FAPO6, "Classificath Exceeded. Note: Effluent Monitors Indicate Release Abo Continuing > 60 minutes and Reportal NOT Complete

#### 7/19/02

#### EFFECTIVE DATE



# **MILLSTONE UNIT 2 EMERGENCY ACTION LEVELS**

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T	GENERAL EMERGENCY ALPHA	NERAL EMERGENCY BRAVO CHARLIE-TWO	ALERT CHARLIE-ONE	UNUSUAL EVENT
Y	IN-PLANT RADIATION	SECURITY THREAT/ DESTRUCTIVE PHENOMENA	FIRE/GASES	JUDGE
FG1	MAJOR FUEL DAMAGE Mode ALL	TG1 SECURITY EVENT Mode ALL		JG1 JUDGEMEN
1. RM 2. At	N-8240/8241 Reading > 1,200 R/hr Least 20% Evel Clad Damage As Determined By Core	1. Loss of Physical Control of the Control Room		Other Conditions Exist For Wh
Da	image Estimate	2. Loss of Physical Control of Remote Shutdown Capability		With Potential For Loss Of C
S Sp Ga	with Fuel is exposed from Water Loss from Open Vessel, wity, Or SF Pool AND BOTH of the Following:			2. Potential For Uncontrolled P These Beleases Can Be Be
:	Spent Fuel Has Decayed < 30 Days CTMT Integrity is NOT Established OR Exposed Spent Fuel is Outside CTMT			Exceed EPA PAG Plume Exp The Site Boundary
R <mark>S1</mark>	SPENT FUEL DAMAGE Mode ALL	TS1 SECURITY EVENT Mode ALL	GS1 CONTROL ROOM EVACUATION Mode ALL	JS1 JUDGEMENT
Spent of the l	Fuel is Exposed from Open Vessel or Cavity AND BOTH Following:	Intrusion into Vital Area by a Hostile Force	Unit Control from Hot Shutdown Panel C-10 Or C-21 NOT Established Within 15 Minutes After Control Room	Other Conditions Exist For Which Actual Or Likely Major Failures of
	Spent Fuel Has Decayed < 30 Days CTMT Integrity Established		Evacuation	For Protecton Of The Public
FA1	SPENT FUEL ASSEMBLY DAMAGE Mode ALL	TA1 SECURITY EVENT Mode ALL	GA1 CONTROL ROOM EVACUATION Mode ALL	JA1 JUDGEMENT
<b>R</b>	pent Fuel is Exposed from Open Vessel, Cavity, or SF Pool ND Spent Fuel Has Decayed $\geq$ 30 Days	<ol> <li>Any on-going or imminent security compromise to the safety of the plant.</li> </ol>	Control Room Evacuation Initiated	Any Condition For Which Judger Systems May Be Degraded AND
2 Fu	el Handling Accident Causing Damage to Spent Fuel, dicated by Fuel Building OR Containment Radiation Monitors	TA2 DESTRUCTIVE PHENOMENA Mode ALL	GA2 FIRE/EXPLOSION Mode ALL	Response Organization Staffing
Inc	creasing	1. Seismic Event > 0.09g ZPA	Fire or Explosion Affecting Safe Shutdown Area AND Damage to Structures OB Equipment Indicated	
HA2	PLANT RADIATION Mode ALL	2. Onsite Sustained Windspeed > 90 MPH	GA3 TOXIC/FLAMMABLE GASES Mode ALL	
Al	arm Station OR Secondary Alarm Station	3. Visible Damage to Structures or Equipment AND Affecting Safe Shutdown	Life Threatening Toyic Gases OR Flammable Gas Concentrations	
2 Ha	adiation Heading > 5 R/hr in Areas Requiring Access for afe Shutdown	Vessel or Vehicle Collision AND Affecting Safe Shutdown     Missiles Affecting Safe Shutdown	as Identified in C – CP 200.5, "Oil, Hazardous Material, Hazardous Waste and Mixed Waste Contingency Plan" Affecting Areas for Safe	
		6. Flooding Affecting Safe Shutdown	Shutdown	
	RAD MONITORS Mode ALL	ECURITY EVENT     Mode ALL     Security events as determined for Station Safeguards	GU1 FIRE Mode ALL	JU1 JUDGEMENT
1. Ur Le	ncontrolled Refuel Pool Water Level Decrease AND Rad	Contingency Plan and reported by Security Shift Supervision	Shutdown NOT Extinguished Within 15 Minutes of Notification OR Verification of Control Room Alarme	Any Condition For Which Judgen Degradation in the Level of Safety
2. Ur	nexpected Area Rad Monitor Reading Offscale High OR		GU2 TOXIC/FLAMMABLE GASES Mode ALL	
Í	1000 Times Normal Heading	1. Seismic Activity Detected Per AOP-2562, Earthquake	1. Life Threatening Toxic Gases OR Flammable Gas	
		<ol> <li>Report by Plant Personnel of Tornado Striking Within Protected Area</li> </ol>	Concentrations as Identified in C-OP 200.5, "Oil, Hazardous Material, Hazardous Waste and Mixed Waste Contingency Plan"	
		<ol> <li>Visible Damage to Structures or Equipment Within the Protected Area</li> </ol>	<ol> <li>Notification of a Near-Site Release That May Require</li> <li>Evaluation</li> </ol>	
		<ol> <li>Onsite Sustained Windspeed &gt; 75 MPH</li> </ol>		
		5. Explosion Within the Protected Area		FOR SAFE SHUTDOWN
		6. Turbine Failure Causing Observable Casing Damage	Cable Vaults	Switchgear Rooms Intake Structure
		Required for Safe Shutdown	Penetration Areas	Switchgear Area Coolant Tanks Area
4		8. Flood Level > 19 Feet Mean Sea Level	BBCCW Rooms Diesel Generator Room	Containment DC Equipment and Battery Bo
		9. Flooding in Areas Containing Safe Shutdown Equipment	Charging Pump Cubicles	Safety Injection Pump Rooms



## MILLSTONE 2 EMERGENCY ACTION LEVELS BARRIER FAILURE REFERENCE TABLE

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IMMINENT - No Turnaround in Safety System Performance is Expected AND Escalation to General Emergency Conditions Will Occur Within 2 Hours

	IDICATORS	FUEL CLAD BARRIER	RCS BARRIER	CTMT BARRIER	
SA ST FL RE	AFETY FUNCTION ATUS/ INCTIONAL COVERY	FCB1       LOSS         Not Applicable         POTENTIAL LOSS         P       NO RCS Heat Removal Method Meets SFSC Criteria         > 15 Minutes AND Shutdown Cooling System Is NOT In Service	RCB1       LOSS         Not Applicable       POTENTIAL LOSS         Uncontrolled RCS Cooldown AND RCS       Pressure-Temperature To the Left Of the PTS Limit 200°F Subcooling Maximum Curve         P       NO RCS Heat Removal Method Meets SFSC Criteria > 15 Minutes AND Shutdown Cooling System Is NOT In Service		L P CLAD
CC TE	DRE EXIT TC MPERATURES	FCB2       LOSS         L       Core Exit Thermocouple Readings > 1300 °F         POTENTIAL LOSS         P       Core Exit Thermocouple Readings > 800 °F	RCB2     LOSS       L     RCS Subcooling < 30°F	CNB1 LOSS Not Applicable POTENTIAL LOSS P Core Exit TC Temperature Readings >1300°F AND Do NOT Decrease Within 15-Minutes	
PF	ESSURE		RCB3       LOSS         Not Applicable         POTENTIAL LOSS         P       Uncontrolled RCS Pressure Decrease and Increasing Containment Radiation Monitors	CNB2       LOSS         L       Rapid Unexplained CTMT Pressure Decrease         Following Initial Increase       Following Initial Increase         L       No CTMT Pressure Increase When Expectation Exists         POTENTIAL LOSS         P       CTMT Pressure > 10 PSIG AND Increasing AND No Containment Spray Pump         P       CTMT H₂ Concentration ≥ 4%	<
U.	OLANT AKAGE		RCB4       LOSS         L       Reactor Coolant Leak > CVCS Capacity AND Entry Into EOP-2534, Steam Generator Tube Rupture         POTENTIAL LOSS         P       Reactor Coolant Leak > CVCS Capacity AND Entry Into EOP-2525, Standard Post Trip Actions         P       Reactor Coolant Leak Rate > capacity of one (1) charging pump AND ≤ CVCS Capacity AND EITHER of the following:         •       Entry Into EOP 2534, Steam Generator Tube Rupture         •       Entry Into AOP 2569, Steam Generator Tube Leak	CNB3       LOSS         L       Primary to Secondary Leakage > Tech Spec Limits AND Unisolable Secondary Release to the Environment (Does NOT Include Normal Cycling of S/G Atmospheric Dump Valves or Safety Valves to Maintain Pressure/Temperature)         L       Failure of BOTH Isolation Valves AND a Pathway to the Environment Exists         POTENTIAL LOSS         P       Entry Into EOP-2532, Loss of Primary Coolant, AND Leakage Exists Outside CTMT Requiring Local Isolation	
RA	DIATION	FCB3       LOSS         L       RM-8240/8241 Reading > 300 R/hr         L       RM-8240/8241 Reading > 5 R/hr Without RCS Release Inside CTMT         L       At Least 5% Fuel Clad Damage As Determined By Core Damage Estimate         L       Dose Rate at One Foot from Unpressurized RCS Sample ≥ 28 mR/hr/ml         POTENTIAL LOSS Not Applicable	RCB5       LOSS         L       RM-8240/8241 Reading > 5 R/hr Without Fuel Clad Barrier Loss         POTENTIAL LOSS         Not Applicable	CNB4       LOSS         L       Offsite Dose Plume Rate ≥ 10 <sup>-6</sup> Times RM-8240/8241         Reading if Release is to CTMT         POTENTIAL LOSS         P         RM-8240/8241 Reading > 1,200 R/hr         P         At Least 20% Fuel Clad Damage As Determined By Core Damage Estimate	
W LI	ATER EVEL	FCB4 LOSS Not Applicable POTENTIAL LOSS P RVLMS Reading = 0%		CNB5 LOSS L No CTMT Sump Level Increase When Expectation Exists POTENTIAL LOSS Not Applicable	L P CLAD
· · · · · · · · · · · · · · · · · · ·	GEMENT	FCB5         Any Condition For Which Judgement Indicates Loss or Potential Loss of Fuel Clad Barrier Due to:         Imminent Barrier Degradation Based On Current Safety System Performance         Degraded Fission Barrier Monitoring Capability Making Barrier Status Indeterminate	RCB6         Any Condition For Which Judgement Indicates Loss or Potential Loss of RCS Barrier Due to:         Imminent Barrier Degradation Based On Current Safety System Performance         Degraded Fission Barrier Monitoring Capability Making Barrier Status Indeterminate	CNB6         Any Condition For Which Judgement Indicates Loss or Potential Loss of CTMT Barrier Due to:         Imminent Barrier Degradation Based On Current Safety System Performance         Degraded Fission Barrier Monitoring Capability Making Barrier Status Indeterminate	Μ



Attachment 11

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

Emergency Procedures Implementing (EPI) Functional Administrative Procedure (FAP) MP-26-EPI-FAP06-003, "Millstone Unit 3 Emergency Action Levels" <u>Major Revision 1, Minor Revison 2</u>

GEN GEN	NERAL EMERGENCY ALPHA 📕 GE	NERAL EMERGENCY BRAVO 🔲 SITE AL	EA EMERGENCY E-TWO ALERT CHARLIE-ONE	UNUSUAL EVENT D
	BARRIER FAILURE	LOSS OF POWER	EQUIPMENT FAILURE	OFFSITE R
BG1	ALL THREE BARRIERS Mode 1, 2, 3, 4	PG1 STATION BLACKOUT Mode 1, 2, 3,	EG1 ATWS/INADEQUATE COOLING Mode 1	OG1 OFFSITE DOSE
	See Barrier Failure Reference Table	Loss of Voltage on Buses 34C AND 34D (Station Blacko Diesel cannot be credited) AND ANY of the Following: • Restoration of Power to AT LEAST One Bus is NOT Likely Within Four Hours • Core Cooling - RED • Heat Sink - RED	<ul> <li>Reactor Power &gt; 5% Following Entry into FR-S.1 AND EITHER of the Following:</li> <li>Core Cooling - FED</li> <li>All SG Wide Range Levels &lt; 29% (59% Adverse C(MT)</li> </ul>	<ol> <li>MP3 Kaman Vent Monitor (RE-10A) for &gt; 15 Minutes</li> <li>MP3 SLCRS Gas Monitor (HVR*19 for &gt; 15 Minutes</li> <li>MP3 Safetics or Steam Dump Mon Reading ≥ 20 µCl cc for &gt; 15 Minutes</li> <li>Terry Turbine Monitor (RE-79) Reat for &gt; 15 Minutes</li> <li>Measured Plume Dose Rate Onsile for &gt; 15 Minutes</li> <li>Rad Assessment Determines Integ ≥ 1 Rem TEDE OR ≥ 5 Rem CDE T</li> </ol>
BS1	ANY TWO BARRIERS Mode 1, 2, 3, 4 See Barrier Failure Reference Table	PS1       STATION BLACKOUT       Mode 1, 2, 3, 4         Loss of Voltage on Buses 34C AND 34D > 15 Minutes (Station Blackout Diesel cannot be credited)       15 Minutes         PS2       LOSS OF DC       Mode 1, 2, 3, 4         Loss of Voltage on DC Buses 1, 2, 3 AND 4 > 15 Minutes       15 Minutes	ES1       ATWS       Mode 1         FR-S.1 is Entered Directly From E-0       FR-S.1 is Entered Directly From E-0         ES2       INABILITY TO MAINTAIN HOT S/D       Mode 1.2,3,4         1.       Heat Sink - RED A ND BOTH of the Following: • Required Feedwilter Flow Can NOT Be Established Within 15 Minutes • RCS Faed and Plaed Can NOT Be Established         2.       RCS Boration Carability Unable to Eliminate Inadvertent Criticality         ES3       IN-VESSEL FUEL UNCOVERY       Mode 5, 6         RHR Has Been Lost AND ANY of the Following Conditions Exist: • Alternate Methods for Restoring RCS Inventory Are NOT Effective • RVLMS Reading Discreasing Toward 19% Level (Plenum) • CET Readings Indicate Superheat Conditions         ES4       LOSS OF ANNUNCIATORS/TRANSIENT       Mode 1.2, 3, 4         Loss of Most (75%) I f/CB Annunciators AND BOTH of the Follow- ing: • Significant Transient in Progress • Loss of SPDS ANE ICC Instrumentation	OS1         OFFSITE DOSE           1         MP3 Kaman Vent Monitor (RE-10A) f for > 15 Minutes           2         MP3 SLCRS Gas Monitor ((HVR*19A for > 15 Minutes           3         MP3 Sateties or Steam Dump Monito Reading ≥ 0.8 µCt/cc for > 15 Minute           4         Terry Turbine Monitor (RE-79) Readin for > 15 Minutes           5         Measured Plume Dose Rate Onsite s for > 15 Minutes           6         Rad Assessment Determines Integra Rem TEDE OR ≥ 0.25 Rem CDE Th
• • • • • • • • • • • • • • • • • • •	FUEL CLAD OR RCS BARRIER       Mode 1, 2, 3, 4         See Barrier Failure Reference Table         STEAM LINE BREAK       Mode 1, 2, 3, 4         Unisolable Steam Line Break Outside CTMT	PA1       STATION BLACKOUT       Mode 5, 6         Loss of Voltage on Buses 34C AND 34D > 15 Minutes          PA2       SINGLE AC POWER SOURCE       Mode 1, 2, 3, 4         Only One AC Power Source Available to Supply Buses 34C AND 3       > 15 Minutes Such That Loss of That Power Source Would Result a Station Blackout (Station Blackout Diesel CANNOT be Credited)	EA1       AUTOMATIC Rx TRIP FAILURE       Mode 1, 2         Failure of Automatic Heactor Trip AND Manual Trip Was Successful       EA2         EA2       INABILITY TO MAINTAIN COLD S/D       Mode 5, 6         1.       Uncontrolled RCS Temperature Increase > 10 "F That Results in RCS Temperature > 200 "F       2.         2.       Inadvertent Criticality       EA3       LOSS OF ANNUNCIATORS/ TRANSIENT       Mode 1, 2, 3, 4         Loss of Most (75%) MCB Annunciators > 15 Minutes AND EITHER of the Following:       .       Significant Transient in Progress         .       Loss of SPDS AND ICC Instrumentation       .	OA1     OFFSITE DOSE       1.     MP3 Kaman Vent Monitor (RE-10A) P for > 15 Minutes       2.     MP3 SLCRS Gas Monitor (HVR*19A) > 15 Minutes       3.     MP3 Safeties or Steam Dump Monitor Reading ≥ 0.08 µCl/cc for > 15 Minutes       4.     Terry Turbine Monitor (RE-79) Reading for > 15 Minutes       5.     Measured Plume Dose Rate Onsite ≥ 6.       6.     Rad Assessment Determines Integra Rem TEDE OR ≥ 0.025 Rem CDE Th
BU2 1. Pressu 2. Unider 3. Identifi BU3 1. RCS A 2. Dose F ≥ 2 mi	CTMT BARRIER       Mode 1, 2, 3, 4         See Barrier Failure Reference Table         RCS LEAKAGE       Mode 1, 2, 3, 4         ure Boundary Leakage > 10 GPM         httified Leakage > 10 GPM         ied Leakage > 25 GPM         FUEL CLAD DEGRADATION       Mode ALL         Activity > 60 µCi/gm I-131 DEQ         Rate at One Foot from Unpressurized RCS Sample         R/hr/ml	PU1       LOSS OF OFFSITE POWER       Mode ALL         Buses 34C AND 34D Are Powered From Emergency Generate         AND Offsite Power NOT Restored Within 15 Minutes         PU2       LOSS OF DC       Mode 5, 6         Loss of Voltage on DC Buses 1, 2, 3 AND 4 > 15 Minutes	EU1       LOSS OF COLD S/D FUNCTION       Mode 5. 6         1       Loss of RHR Cooling > 15 Minutes AND Valid PZR Water Level (LT 462) Reading < 40%	OU1 UNPLANNED RELEA Effluent Monitors in Alarm OR Unplan Uncontrolled Offsite Release AND DE Limits as Determined from EPI – FAPO PARs," Exceeded. Note: Effluent Monitors Indicate Re Setpoint Continuing > 60 min Evaluations NOT Complete

#### 7/19/02

## EFFECTIVE DATE

ELEASES	CLASSIFICATION
Mode ALL	GENERAL EMERGENCY
Reading ≥ 0.8 iiCl/cc	ALPHA
r /BE-75 76 77 78)	OR
es na > 50 uCi/cc	BRAVO Events in Progress or Have Occurred Which
> 1.000 mR/hr	Degradation or Melting With Potential for Los of Containment Integrity
and Dose Offsite	
Mode ALL	
ading > 0.1 uCi/cc	SITE AREA EMERGENCY
	CHARLIE-TWO
Heading > 10 #Ci/cc	Events in Progress or Have Occurred White
	Functions Needed for Protection of the Public
≥ 10 µCvcc	
90 mR/hr	
d Dose Offsite > 0.05	
Mode Al I	
ding ≥ 0.01 µCi/cc	
	CHARLIE-ONE
eading $\geq 1  \mu \text{Ci/cc}$ for	
eading $\geq 1  \mu \text{Ci/cc}$ for	Events in Progress or Have Occurred Which Involve an Actual or Potential Substantial Descriptions of the Level of Setets of the Blost
aading ≥ 1 μCi/cc for RE-75/76/77/78) s	Events in Progress or Have Occurred Which Involve an Actual or Potential Substantial Degradation of the Level of Safety of the Plant
Reading ≥ 1 µCi/cc for (RE-75/76/77/78) es Of ≥ 1 µCi/cc	Events in Progress or Have Occurred Which Involve an Actual or Potential Substantial Degradation of the Level of Safety of the Plant
Reading $\geq$ 1 $\mu$ Ci/cc for (RE-75/76/77/78) as Of $\geq$ 1 $\mu$ Ci/cc 5 mR/hr for > 15 Minutes	Events in Progress of Have Occurred Which Involve an Actual or Potential Substantial Degradation of the Level of Safety of the Plant
Reading $\geq$ 1 µCi/cc for (RE-75/76/77/78) as Of $\geq$ 1 µCi/cc 5 mR/hr for > 15 Minutes d Dose Offsite $\geq$ 0.005 rold	Events in Progress of Have Occurred Which Involve an Actual or Potential Substantial Degradation of the Level of Safety of the Plant
Reading $\geq$ 1 µCi/cc for (RE-75/76/77/78) PS Of $\geq$ 1 µCi/cc 5 mR/hr for $>$ 15 Minutes d Dose Offsite $\geq$ 0.005 roid E Mode ALL	Events in Progress of Have Occurred Which Involve an Actual or Potential Substantial Degradation of the Level of Safety of the Plant
eading $\geq$ 1 µCl/cc for (RE-75/76/77/78) S Of $\geq$ 1 µCl/cc S mR/hr for > 15 Minutes d Dose Offsite $\geq$ 0.005 old E Mode ALL ed, Unmonitored or A TWO Reserve Contents	Events in Progress of Have Occurred Which Involve an Actual or Potential Substantial Degradation of the Level of Safety of the Plant UNUSUAL EVENT DELTA-TWO
eading $\geq$ 1 µCl/cc for RE-75/76/77/78) s Of $\geq$ 1 µCl/cc i mR/hr for > 15 Minutes d Dose Offsite $\geq$ 0.005 oid E Mode ALL ed, Unmonitored or A-TWO Posture Code "Classification and	Events in Progress of Have Occurred Which Involve an Actual or Potential Substantial Degradation of the Level of Safety of the Plant         UNUSUAL EVENT         DELTA – TWO         OR
leading $\geq$ 1 µCl/cc for (RE-75/76/77/79) IS Of $\geq$ 1 µCl/cc S mR/hr for > 15 Minutes d Dose Offsite $\geq$ 0.005 rold E Mode ALL ed, Unmonitored or A-TWO Posture Code "Classification and tase Abbye Alarm the AND Reconstruction	Events in Progress or Have Occurred Which Involve an Actual or Potential Substantial Degradation of the Level of Safety of the Plant UNUSUAL EVENT UNUSUAL EVENT DELTA-TWO OR DELTA-ONE Events in Progress or Have Occurred Which
eading $\geq$ 1 µCl/cc for RE-75/76/77/78) s Of $\geq$ 1 µCl/cc in R/hr for > 15 Minutes d Dose Offsite $\geq$ 0.005 oid E Mode ALL Mode ALL d, Unmonitored or A-TWO Posture Code "Classification and ase Above Alarm tes AND Reportability	Events in Progress or Have Occurred Which Involve an Actual or Potential Substantial Degradation of the Level of Safety of the Plant         UNUSUAL EVENT         DELTA – TWO         OR DELTA – ONE         Events in Progress or Have Occurred Which Indicate a Potential Degradation of the Level of Safety of the Plant
eading $\geq$ 1 µCl/cc for (RE-75/76/77/78) S Of $\geq$ 1 µCl/cc S mR/hr for > 15 Minutes d Dose Offsite $\geq$ 0.005 oid E Mode ALL ed, Unmonitored or A-TWO Posture Code "Classification and ase Above Alarm tes AND Reportability	Events in Progress or Have Occurred Which Involve an Actual or Potential Substantial Degradation of the Level of Safety of the Plant         UNUSUAL EVENT         DELTA – TWO         OR DELTA – ONE         Events in Progress or Have Occurred Which Indicate a Potential Degradation of the Level of Safety of the Plant
eading ≥ 1 μCi/cc for RE-75/76/77/78) s Of ≥ 1 μCi/cc imR/hr for > 15 Minutes d Dose Offsite ≥ 0.005 oid EMode ALL d, Unmonitored or A-TWO Posture Code "Classification and ase Above Alarm tes AND Reportability	Events in Progress or Have Occurred Which Involve an Actual or Potential Substantial Degradation of the Level of Safety of the Plant         UNUSUAL EVENT         DELTA – TWO         OR DELTA – ONE         Events in Progress or Have Occurred Which Indicate a Potential Degradation of the Level of Safety of the Plant         Q
Reading ≥ 1 μCi/cc for         (RE-75/76/77/78)         es         Of ≥ 1 μCi/cc         5 mR/hr for > 15 Minutes         d Dose Offsite ≥ 0.005         roid         E         Mode ALL         ed, Unmonitored or         FA-TWO Posture Code         "Classification and         usse Above Alarm         ites AND Reportability	Events in Progress or Have Occurred Which Involve an Actual or Potential Substantial Degradation of the Level of Safety of the Plant UNUSUAL EVENT DELTA – TWO OR DELTA – ONE Events in Progress or Have Occurred Which Indicate a Potential Degradation of the Level of Safety of the Plant
Naading ≥ 1 µCi/cc for         (RE-75/76/77/78)         NS         Of ≥ 1 µCi/cc         5 mR/hr for > 15 Minutes         d Dose Offsite ≥ 0.005         roid         E         Mode ALL         ed, Unmonitored or         TA-TWO Posture Code         "Classification and         asse Above Alarm         ites AND Reportability	Events in Progress of Have Occurred Which Involve an Actual or Potential Substantial Degradation of the Level of Safety of the Plant UNUSUAL EVENT DELTA-TWO OR DELTA-ONE Events in Progress or Have Occurred Which Indicate a Potential Degradation of the Level of Safety of the Plant
aading ≥ 1 μCi/cc for RE-75/76/77/78) Df ≥ 1 μCi/cc mR/hr for > 15 Minutes Dose Offsite ≥ 0.005 Dose Offsite ≥ 0.005 Mode ALL d, Unmonitored or A-TWO Posture Code 'Classification and ase Above Alarm es AND Reportability	Events in Progress of Have Occurred Which Involve an Actual or Potential Substantial Degradation of the Level of Safety of the Plant UNUSUAL EVENT DELTA-TWO OR DELTA-ONE Events in Progress or Have Occurred Which Indicate a Potential Degradation of the Level of Safety of the Plant <b>3</b> COS Millstone
ading ≥ 1 μCl/cc for IE-75/76/77/78) of ≥ 1 μCl/cc mR/hr for > 15 Minutes Dose Offsite ≥ 0.005 id Mode ALL f. Unmonitored or -TWO Posture Code Classification and se Above Alarm ss AND Reportability	Events in Progress of Have Occurred Which Involve an Actual or Potential Substantial Degradation of the Level of Safety of the Plant UNUSUAL EVENT DELTA-TWO OR DELTA-ONE Events in Progress or Have Occurred Which Indicate a Potential Degradation of the Level of Safety of the Plant Safety of the Plant COS Millstone MP-26-EPI-FAP06-

# **MILLSTONE UNIT 3 EMERGENCY ACTION LEVELS**

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	GENERAL EMERGENCY ALPHA	NERAL EMERGENCY BRAVO	AREA EM RLIE-TWO	IERGENCY	ALERT CHA	RLIE-ONE	UN 🔜	NUSUAL EVENT
	IN-PLANT RADIATION	SECURITY THREAT/ DESTRUCTIVE PHENOMENA		F	IRE/GASES			JUDGEN
RG 1. 2. 3.	MAJOR FUEL DAMAGE       Mode ALL         Valid RE04A/05A Reading > 2,000 R/hr         At Least 20% Fuel Clad Damage As Determined By Core         Damage Estimate         Spent Fuel is Exposed from Water Loss from Open Vessel,         Cavity, Or SF Pool AND BOTH of the Following:         Spent Fuel Has Decayed < 30 Days         Release Can Bypass CTMT	TG1     SECURITY EVENT     Mode       1. Loss of Physical Control of the Centrol Room       2. Loss of Physical Control of Remote Shutdown Cat	ALL				JG1 Other C 1. Actur With 2. Poter Thes Exce The S	JUDGEMENT anditions Exist For Whic al Or Imminent Substant Potential For Loss Of Co OR nitial For Uncontrolled Ra e Releases Can Be Rear ed EPA PAG Plume Expo Site Boundary
RS1 Spe the l	SPENT FUEL DAMAGE       Mode ALL         Int Fuel is Exposed from Open Vessel, or Cavity AND BOTH of following:       Spent Fuel Has Decayed < 30 Days         Spent Fuel Has Decayed < 30 Days       CTMT Integrity Established	TS1     SECURITY EVENT     Mode       Intrusion into Vital Area by a Hostile Force	ALL	GS1 CONTROL R Unit Control from Aux Established Within 15 Evacuation	OOM EVACUATION	Mode ALL	JS1 Other Co Actual O For Prote	JUDGEMENT onditions Exist For Which or Likely Major Failures of ecton Of The Public
RA 1. RA 1. 2.	SPENT FUEL ASSEMBLY DAMAGE       Mode ALL         Spent Fuel is Exposed from Open Vessel, Cavity OR SF Pool         AND Spent Fuel Has Decayed ≥ 30 Days         Suel Handling Accident Causing Damage to Spent Fuel,         Indicated by Fuel Building OR Containment Radiation Monitors         Increasing         2       PLANT RADIATION         Mode ALL         Radiation Readings > 15 mR/hr in Control Room OR Central         Alarm Station OR Secondary Alarm Station         Radiation Reading > 5 R/hr in Areas Requiring Access for         Safe Shutdown	TA1       SECURITY EVENT       Mode A         1. Any on – going or imminent security compromise to the safety of the plant.       Mode A         TA2       DESTRUCTIVE PHENOMENA       Mode A         1. Seismic Event > 0.09g ZPA       Mode A         2. Onsite Sustained Windspeed > 90 MPH       Suisible Damage to Structures or Equipment AND Affer Shutdown         4. Vessel or Vehicle Collision AND Affecting Safe Shutd       Safe Shutdown         6. Flooding Affecting Safe Shutdown       Set Shutdown	ALL 2	GA1 CONTROL RC Control Room Evaduat GA2 FIRE/E Fire or Explosion Affect Structure OR Equipme GA3 TOXIC/FLAI Life Threatening Toxic ( as Identified in C -/ )P 3 Waste and Mixed Wast Shutdown	DOM EVACUATION tion Initiated EXPLOSION ting Safe Shutdown Ar nt Indicated MMABLE GASES Gases OR Flammable 200.5, Oil, Hazardous e Contingency Plan At	Mode ALL Mode ALL ea AND Damage to Mode ALL Gas Concentrations Material, Hazardous ffecting Areas for Safe	JA1 Any Con Systems Respons	JUDGEMENT Idition For Which Judgem May Be Degraded And V se Organization Staffing
RU 1. 2.	RAD MONITORS         Mode ALL           Containment OR Fuel Building Area Rad Monitor Alarms Indicate Cavity Seal Failure         Indicate Cavity Seal Failure           Unexpected Rad Monitor Reading Offscale High OR         > 1000 Times Normal Reading	TU1       SECURITY EVENT       Mode A         1. Security events as determined for Station Safeguards Contingency Plan and reported by Security Shift Supe       2. A credible site specific security threat notification         TU2       DESTRUCTIVE PHENOMENA       Mode A         1. Seismic Activity Detected Per AOP-3570, Earthquake       2. Report by Plant Personnel of Tornado Striking Within Area         3. Visible Damage to Structures or Equipment Within the Area       4. Onsite Sustained Windspeed > 75 MPH	LL 2	GU1 Fire in Buildings OR Are Shutdown NOT Extingu Notification OR Verification GU2 TOXIC/FLAN 1. Life Threatening Too Concentrations as I Material, Hazardous Plan Affecting Norm 2. Notification of a New Evacuation	FIRE       Mode ALL         n Buildings OR Areas Adjacent to Areas Needed for Safe         down NOT Extinguished Within 15 Minutes of Control Room         ication OR Verification of Control Room Alarms         TOXIC/FLAMMABLE GASES       Mode ALL         Life Threatening Toxic Gases OR Flammable Gas         Concentrations as Identified in C – OP 200.5, Oil, Hazardous         Material, Hazardous Waste and Mixed Waste Contingency         Plan Affecting Normal Operation         Notification of a Near-Site Release That May Require         Evacuation		JU1 Any Con Degrada	JUDGEMEN dition For Which Judgeme tion in the Level of Safety
NOT	When two or more EALs apply, always choose the EAL of the highest incident classi	<ol> <li>Explosion Within the Protected Area</li> <li>Turbine Failure Causing Observable Casing Damage</li> <li>Vessel or Vehicle Collision With Structures or Equipm Required for Safe Shutdown</li> <li>Flood Level &gt; 19.7 Feet Mean Sea Level</li> <li>Flooding in Areas Containing Safe Shutdown Equipm fication; also always read from top to bottom in each category.</li> </ol>	ent ent		A Containment Bui Auxiliary Building Control Building Main Steam Valv Demineralized W ESF Building	REAS OF CONCERN Iding 9 e Building /ater Storage Tank	FOR SAFE Intake Stru Station Tra Emergenc Fuel Build	SHUTDOWN ucture ansformers cy Generator Enclosure ing



# **MILLSTONE 3 EMERGENCY ACTION LEVELS BARRIER FAILURE REFERENCE TABLE**

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IMMINENT - No Turnaround in Safety System Performance is Expected AND Escalation to General Emergency Conditions Will Occur Within 2 Hours

TITLE			I	] [
INDICATORS	FUEL CLAD BARRIER	RCS BARRIER	CTMT BARRIER	
STATUS TREES	FCB1       LOSS         L       Core Cooling - RED         POTENTIAL LOSS         P       Core Cooling - ORANGE         P       Heat Sink - RED AND BOTH of the Following:         •       Required Feedwater Flow Can NOT Be Established         Within 15 Minutes       •         •       RCS Feed and Bleed Can NOT Be Established	RCB1       LOSS         Not Applicable         POTENTIAL LOSS         P         RCS Integrity - RED         P         Heat Sink - RED AND Required Feedwater Flow Can NOT Be Established Within 15 Minutes	CNB1 LOSS Not Applicable POTENTIAL LOSS P Containment - RED	
CORE EXIT TC TEMPERATURES	FCB2       LOSS         L       Core Exit TC Temperatures > 1200 °F         POTENTIAL LOSS         P       Core Exit TC Temperatures > 718 °F	RCB2       LOSS         L       RCS Subcooling < 32 °F Due to RCS Leak (115°F Adverse CTMT)	CNB2       LOSS         Not Applicable         POTENTIAL LOSS         P         Entry Into FR-C.1, Response to Inadequate Core         Cooling, or FR-C.2, Response to Degraded Core         Cooling with RVLMS ≤ 19% (Plenum) AND Core Exit TC         Temperatures Do NOT Decrease Within 15 Minutes	
PRESSURE		RCB3       LOSS         Not Applicable         POTENTIAL LOSS         P         Uncontrolled RCS Pressure Decrease and Increasing Containment Radiation Monitors	CNB3       LOSS         L       Rapid Unexplained CTMT Pressure Decrease         Following Initial Increase         L       No CTMT Pressure Increase When Expectation Exists         POTENTIAL LOSS         P       CTMT Pressure $\geq$ 60 PSIA AND Increasing         P       CTMT H <sub>2</sub> Concentration $\geq$ 4%	
COOLANT LEAKAGE		RCB4       LOSS         L       Entry Into E-3, "Steam Generator Tube Rupture" AND Reactor Coolant Leak > Capacity of One Charging Pump         POTENTIAL LOSS         P       Reactor Coolant Leak > Capacity of One Charging Pump AND ANY of the following: <ul> <li>Entry into E-0, "Reactor Trip or Safety Injection"</li> <li>Entry into AOP 3555, "Reactor Coolant Leak"</li> <li>Entry into AOP 3576, "Steam Generator Tube Leak"</li> </ul> <ul> <li>Entry into E-3, "Steam Generator Tube Rupture" AND Reactor Coolant Leak ≤ Capacity of One Charging Pump</li> </ul> <ul> <li>Generator Tube Rupture" AND Reactor Coolant Leak ≤ Capacity of One Charging Pump</li> </ul> <ul> <li>Entry into E-3, "Steam Generator Tube Rupture" AND Reactor Coolant Leak ≤ Capacity of One Charging Pump</li> </ul> <ul> <li>Coolant Leak ≤ Capacity of One Charging Pump</li> <li>Entry into E-3, "Steam Generator Tube Rupture" AND Reactor Coolant Leak ≤ Capacity of One Charging Pump</li> </ul>	CNB4       LOSS         Primary to Secondary Leakage > Tech Spec Limits AND         Unisolable Secondary Release to the Environment (Does NOT Include Normal Cycling of S/G Atmospheric Dump Valves or Safety Valves)         L         Failure of BOTH Isolation Valves AND a Pathway to the Environment Exists         L       Entry Into ECA-1.2, LOCA Outside Containment, Is Required AND Reactor Coolant Leakage is Verified         P       Entry Into ECA-1.2, LOCA Outside Containment	
RADIATION	FCB3       LOSS         L       RE-04A/05A Reading > 500 R/hr         L       RE-04A/05A Reading > 5 R/hr Without RCS Release         L       At Least 5% Fuel Clad Damage As Determined By Core Damage Estimate         L       Dose Rate at One Foot from Unpressurized RCS Sample ≥ 30 mR/hr/ml         POTENTIAL LOSS         Not Applicable	RCB5       LOSS         L       RE-04/05A Reading > 5 R/hr Without Fuel Clad Barrier         Loss       POTENTIAL LOSS         Not Applicable	CNB5       LOSS         L       Offsite Dose Plume Rate ≥ 10 <sup>-6</sup> Times RE-04A/RE-05A         Reading if Coolant Loss is to CTMT         POTENTIAL LOSS         P       RE-04A/05A Reading > 2,000 R/hr         P       At Least 20% Fuel Clad Damage As Determined By Core Damage Estimate	
WATER LEVEL	FCB4     LOSS       Not Applicable       POTENTIAL LOSS       P     RVLMS ≤ 19% (Plenum)		CNB6 LOSS L No CTMT Sump Level Increase When Expectation Exists POTENTIAL LOSS Not Applicable	L P CLAD
JUDGEMENT	FCB4         Any Condition For Which Judgement Indicates Loss or Potential Loss of Fuel Clad Barrier Due to:         Imminent Barrier Degradation Based On Current Safety System Performance         Degraded Fission Barrier Monitoring Capability Making Barrier Status Indeterminate	RCB6         Any Condition For Which Judgement Indicates Loss or Potential Loss of RCS Barrier Due to:         • Imminent Barrier Degradation Based On Current Safety System Performance         • Degraded Fission Barrier Monitoring Capability Making Barrier Status Indeterminate	CNB7         Any Condition For Which Judgement Indicates Loss or Potential Loss of CTMT Barrier Due to:         Imminent Barrier Degradation Based On Current Safety System Performance         Degraded Fission Barrier Monitoring Capability Making Barrier Status Indeterminate	N



Attachment 12

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

Emergency Procedures Implementing (EPI) Functional Administrative Procedure (FAP) MP-26-EPI-FAP07, "Notifications and Communications" <u>Major Revision 2, Minor Revision 1</u>

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**Functional** Administrative Procedure



**Millstone Station** 

# **Notifications and Communications**

**MP-26-EPI-FAP07** 

Rev. 002-01

Approval Date:

Effective Date:



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## 1. <u>PURPOSE</u>

### 1.1 Objective

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

### 1.2 Applicability

Conditions exist which have been assessed by the Shift Manager/DSEO and classified as an emergency.

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

#### **1.3** Supporting Documents

EPI-FAP06, "Classification and PARs"

EPA-REF08B, "Millstone Emergency Plan Resource Book"

#### 1.4 Discussion

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

- Notification of the State of Connecticut Department of Environmental Protection (DEP)
- Notification of other offsite entities (i.e., Local, State)
- Notification of the NRC
- Performance of additional notifications (Information Technology, ANI, Corporate etc.)
- Performance of administrative actions

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

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

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

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

If an IRF is to be released and the circumstances or conditions which caused the report have already been corrected, only one IRF is required. The following applies:

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

For events that activate the SERO, the on-shift Unit 3 Shift Technician may be relieved of notification responsibilities by an on-call Shift Technician in the EOF. In this case, a formal turnover of notification responsibilities from the control room to the EOF is required.

Definitions and abbreviations are contained in Attachment 1.

Responsibilities are contained in Attachment 2.

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#### 2. <u>INSTRUCTIONS</u>

# 2.1 Nuclear Incident Report Form (IRF) Radiopager Notification

- 2.1.1 Log onto the ENRS terminal.
- 2.1.2 Complete a written copy of EPI-FAP07-001, "Nuclear Incident Report Form (IRF)."

### NOTE

- 1. Meteorological data is available from SPDS or OFIS.
- 2. If the release pathway is unknown, the Met Tower 142' elevation data should be used.
- 3. The CR-DSEO or the ADEOF should be consulted for the appropriate Met data for the release path.
- 2.1.3 Enter meteorological data as follows:
  - <u>IF</u> data is available, verify the appropriate Met Tower level reading is being used and enter data in "Current Site Wind" and "Forecast Site Wind" sections.
  - IF data is not available, enter NA in the "Current Site Wind" and "Forecast Site Wind" sections.
- 2.1.4 Obtain DSEO authorization signature on the written IRF.
- 2.1.5 Open "RapidReach Primary" folder and "RapidReach" icon.
- 2.1.6 At "RapidReach Login" screen, select user ID and enter the password.
- 2.1.7 Open "EasyView" icon.
- 2.1.8 At "EasyView Login" screen, select user ID and enter the password.
- 2.1.9 IF ENRS primary is not operable, Refer To Section 2.7 and perform backup or remote operation.

#### NOTE

A loss of the Flanders line will cause total loss of the ENRS primary server *and* loss of the local area network (LAN). ENRS can be activated using the backup server via a modem.

2.1.10 IF the Flanders line is lost, Go To Section 2.7.7 and perform backup from modem.

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- 2.1.11 Enter IRF data, as follows:
  - a. Open "IRF" form.
  - b. Using the completed EPI-FAP07-001, enter the information into IRF template.
  - c. Print IRF and verify information is correct.
- 2.1.12 Obtain DSEO initials on the IRF printout.
- 2.1.13 Save IRF as follows:
  - a. Select "File" and "Print."

	NOTE
Saving th message.	e IRF form to "Print-2-Image" attaches the fax to the radiopager
b.	Select "Print-2-Image."
с.	At the "Selection Configuration" box, select appropriate setup.
d.	At the "Select Message to Fax" screen, select "Root" tree.
e.	At the "Root" tree, select appropriate message (e.g., Emergency Call-Outs, etc.).
f.	Maximize "RapidReach" screen
g.	Select "microphone" icon ("Show Message Window").
2.1.14 Trans	mit IRF message as follows:
a.	At "Root" tree, select appropriate message.
b.	Listen to the "Alpha Pager Message" and verify information is correct (message may be recorded again, if necessary).
c.	Maximize "EasyView" screen and select appropriate scenario.
đ.	Select the lightning bolt icon.
e.	Select "Set Common Message."
f.	At "Root" tree, select appropriate message (e.g., Emergency Call-Outs, etc.).



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# NOTE

Attachment 3, "Notification Locations," provides information on which individuals and agencies are notified.

2.1.18 Verify radiopager sent, as follows:

- a. Monitor the "RapidReach Overview" screen and select the most recent scenario number from call-out grid box (the top box) to verify appropriate groups or individuals have been paged.
- b. Verify that the page message was sent to the control room console pager.
- c. <u>IF</u> no responders call in within 5 minutes after release of the message, consider the transmission as failed and Refer To Section 2.8, "ENRS Failure."
- d. Monitor "EasyView" and "RapidReach" screens as positions call back acknowledging page.
- 2.1.19 IF Alert or higher classification, Refer To Section 2.4 and activate the ERDS link.
- 2.1.20 Verify fax is received in respective control room or EOF, as applicable.
- 2.1.21 At "Overview" screen, print "Groups-in-Call-Out" callback verification report.
- 2.1.22 IF SERO is activated, fax initial CV report (SERO results) to the MOR.
- 2.1.23 IF call-out is complete or a new call-out needs to be initiated, select the red traffic light in "EasyView" to deactivate the call-out process.
- 2.1.24 IF ENRS is not operable, Refer To Section 2.8, "ENRS Failure," and EPA-REF08B, "Millstone Emergency Plan Resource Book," Section "Off-Site Town/Agencies," and manually fax notifications to state and local officials.

- End of Section 2.1 -

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# 2.2 Callback Verification

# NOTE

Attachment 3, "Notification and Callback Guidance," provides guidance for verification of required actions.

- 2.2.1 IF the following have not called in, attempt callback verification within approximately 15 minutes after event message has been transmitted:
  - State of Connecticut DEP Dispatch
  - State and local responders

# NOTE

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

- 2.2.2 Print CV report (i.e., report by group) to document callback responses.
- 2.2.3 Refer To CV report and perform the following:
  - a. Document non-responders.

# NOTE

- 1. Only one attempt is required for a UE backup notification.
- 2. The group RADIOPAGER number for State/Local pagers is 860-332-0059.
  - b. Refer To EPA-REF08B and attempt one backup notification of non-responders.
  - c. <u>IF</u> event is ALERT or higher and non-responders cannot be reached, perform the following:
    - 1) Contact State Police Barracks Dispatcher (Troop E)
    - 2) Request immediate assistance in notifying non-responders.
    - 3) Request police confirm response to the message.
  - d. Perform backup notifications.
- 2.2.4 Print copy of SERO CV report only and fax to EOF.
- 2.2.5 Print the final ENRS CV report when initial and backup notifications have been completed.

- End of Section 2.2 -

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# 2.3 NRC Notifications

# NOTE

- 1. State of Connecticut posture codes, (e.g., Delta-One, etc.) shall not be used when notifying the NRC of reportable events.
- 2. It is good practice to notify the NRC of the next planned report, e.g., one hour.
- 2.3.1 Record applicable information for an event on EPI-FAP07-003, "NRC Event Notification Form."
- 2.3.2 Refer To and complete EPI-FAP07-002, "NRC Notification Checklist."
- 2.3.3 IF ENS is not operable, Go To Section 2.9, "ENS Failure."

- End of Section 2.3 -

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#### 2.4 Additional Notifications

# NOTE

ERDS activation is required for an Alert or higher classification.

- 2.4.1 Activating the Emergency Response Data System (ERDS)
  - a. At plant process computer terminal for Unit 2:
    - 1) Locate the Unit 2 PPC TOP\_MENU display.
    - 2) Select the SPDS button.
    - 3) Select the Initiate ERDS button to activate ERDS transmission.
    - 4) Select Yes to confirm activation.
  - b. At plant process computer terminal for Unit 3:
    - 1) Select NSSS menu page 3 of 3.
    - 2) Select Function F11 Activate/Terminate ERDS.
    - 3) Select Function F1 to activate ERDS transmission.
    - 4) Select Function F12 to confirm activation.
  - c. Verify ERDS activation as follows:
    - 1) At the Unit 2 or Unit 3 TOP\_MENU display of an OFIS terminal, select OFIS menu button.
    - 2) Select ERDS Point List button.
    - 3) Verify "Data Transmission to the NRC ERDS" is "INITIATED."

# NOTE

"ERDS Status" shows the current status of the modem connection with the NRC. By design, the NRC will refuse the first connection request. ERDS send software will automatically retry the connection until a connection is established. If the connection is lost during an ERDS session, the ERDS send software will try to reconnect. The NRC should accept the second connection request.

- 4) Verify "ERDS Status" is "Link Active."
- 5) <u>IF</u> "ERDS Status" has not changed to "Link Active" after 3 minutes, notify IT of an ERDS connection failure.

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# NOTE

The time of the last data transmission should update every 15 seconds, as long as the link is active.

6) <u>WHEN</u> a "Link Active" status is obtained, verify "Time of Last Data Transmission to the NRC" has been updated.

I

- d. Contact the NRC to verify ERDS data is being received.
- 2.4.2 Ensure American Nuclear Insurers (ANI) is notified.
- 2.4.3 <u>IF</u> an Unusual Event or higher, Refer To EPA-REF08B, "Millstone Emergency Plan Resource Book," and notify the Richmond Control Center Security Specialist.

- End of Section 2.4 -

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#### 2.5 Sending Additional IRF Messages

# NOTE

The following "scenario message" should be used if SERO is activated and additional messages are required, including the event termination message, because the SERO is not required to call in once activated.

"SERO ACTIVATED - SEND ADD'L MESSAGES"

This scenario was designed to page BOTH groups (State and Local Officials and SERO) but only requires state and local officials to call in.

- IF any of the following conditions occur, Refer To Step 2.1.2 and perform 2.5.1 notifications:
  - SERO is activated and additional messages are required. Select the "SERO Activated - Send Add'l Messages," scenario.
  - Update or reclassification notifications are directed.
  - The emergency has been terminated and was not closed out in initial report.
- IF all existing events have been terminated and callback verifications have been 2.5.2 completed, perform the following:
  - Refer To Section 2.6 and restore ENRS general default message. a.
  - Perform ENRS log-off. b.

- End of Section 2.5 -

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# 2.6 System Restoration and Administrative Actions

- 2.6.1 Ensure all CV reports are finished.
- 2.6.2 IF all existing events have been terminated and callback verifications are complete, restore general default as follows:
  - a. Select "RapidReach."
  - b. Select "microphone" icon. ("Show Message Window")
  - c. At "Root" tree, select "Informational Message."
  - d. At "Audio Message" screen, select "microphone" icon.
  - e. Record the following message:

"There is no information presently available for Millstone Station."

- f. Verify recorded information is satisfactory and select "OK."
- g. From "Root" tree, select event message used ("Emergency Call-Outs," etc.).
- h. Select red minus button in fax box on lower right of screen.
- i. Select "Yes" to delete and observe "Same as alpha pager" in fax message box.
- j. Close the following:
  - 1) "RapidReach"
  - 2) "EasyView"
  - 3) "IRF" word document
- 2.6.3 Review IRFs and verify appropriate termination message has been issued.
- 2.6.4 Obtain original of the following documents for the applicable unit control room:
  - EPI-FAP07-001, "Nuclear Incident Report Form (IRF)," and printout.
  - EPI-FAP07-002, "NRC Notification Checklist," as applicable.
  - EPI-FAP07-003, "NRC Event Notification Form."
  - ENRS callback verification report printout (CV report).
  - Any other completed attachments.

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- 2.6.5 Send copies of the following documents to the Manager, Emergency Preparedness Department:
  - EPI-FAP07-001, "Nuclear Incident Report Form (IRF)" and printout.
  - EPI-FAP07-002, "NRC Notification Checklist," as applicable.
  - EPI-FAP07-003, "NRC Event Notification Form"
  - ENRS callback verification report printout (CV report)
  - Any other completed attachments
  - Condition Report (if applicable)
  - Log entries, as applicable

- End of Section 2.6 -

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# 2.7 Backup and Remote Operation

- 2.7.1 IF "RapidReach Primary" does not connect, open "RapidReach Backup."
- 2.7.2 <u>IF</u> "RapidReach Backup" connects, Refer To Section 2.10, "Switching Telephone Lines," and transfer the phones.
- 2.7.3 <u>IF</u> "RapidReach Backup" connects and phone lines transfer correctly, go to Section 2.1, and perform the same steps as for "RapidReach Primary" using "RapidReach Backup" and "EasyView Backup."

# NOTE

If unable to connect to either the primary or backup via the LAN, "RapidReach" may not be used to fax or record the IRF into the "Informational Message." Faxes must then be sent via the SNET Faxworks. If time permits, it is preferable to use "EasyView Remote" to allow State and local officials and SERO to call in and provide a graphical display of the positions being filled.

- 2.7.4 <u>IF</u> "RapidReach Backup" using LAN does not connect (leaving the phone lines in primary), select the icon labeled "Modem to Primary Server."
- 2.7.5 <u>IF</u> the connection is made, select "EasyView Remote" from the "RapidReach Primary" folder and perform the following:
  - a. Select a scenario.
  - b. Select lightening bolt.
  - c. Set the common message.
  - d. Select "Start."
  - e. Refer To Step 2.8.3 and distribute IRF via SNET Faxworks.
  - f. <u>IF</u> access to the EOF <u>OR</u> TSC has been restricted, notify SAS to transmit the following text message(s) to SERO responders:
    - "Access to (EOF)(TSC) restricted. Report to backup location."
    - "Do not report to site. Standby for more info."
  - g. Refer To Section 2.4 and activate the ERDS link.
- 2.7.6 <u>IF</u> "EasyView Remote Primary" does *not* connect, open "RapidReach Backup" folder and select the icon labeled "Backup to EOF."
- 2.7.7 IF Flanders line is lost, open "RapidReach Backup" folder, and select the icon labeled "Backup to EOF."

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	a.	Refer To Section 2.10 and transfer the phones from primary to secondary server.
	b.	Select a scenario.
	c.	Select lightening bolt.
	d.	Set the common message.
	e.	Select "Start."
	f.	Refer To Step 2.8.3, and distribute IRF via SNET Faxworks.
	g.	IF access to the EOF OR TSC has been restricted, notify SAS to transmit the following text message(s) to SERO responders:
		• "Access to (EOF)(TSC) restricted. Report to backup location."
		• "Do not report to site. Standby for more info."
	h.	Refer To Section 2.4, and activate the ERDS link.
	i.	Monitor "EasyView Remote" screen as positions call back acknowledging screen.
	j.	IF the following have not called in, attempt callback verification within approximately 15 minutes after event message has been transmitted:
		State of Connecticut DEP Dispatch
		• State and local responders
	k.	Refer To EPA-REF08B and attempt one backup notification of non-responders.
	1.	<u>IF</u> event is ALERT or higher and non-responders cannot be reached, perform the following:
		1) Contact State Police Barracks Dispatcher (Troop E)
		2) Request immediate assistance in notifying non-responders.
		3) Request police confirm response to the message.
2.7.9	<u>IF</u> ph follo	one lines were transferred to the back-up phone server, perform the wing:
	a.	Complete all call-outs.
	b.	Refer To Step 2.10.2, and restore phone lines to the primary system.
2.7.10	<u>IF</u> nc	connection is made, Go To Section 2.8 and notify Security.
		- End of Section 2.7 -

### 2.8 ENRS Failure

- 2.8.1 Notify SAS to transmit a text message to both State and local officials and SERO responders to include the following:
  - [Applicable unit] [NRC Classification] [State Posture code] [Major EAL heading] [Minor EAL heading (code)] "Report to facility."
  - Example: [MP3] [GE] [Alpha] [Barrier failure] [BG1] "Report to facility."
- 2.8.2 IF SAS is not able to assist, perform the following:
  - a. Dial paging system using confidential group page codes for the State and Local Officials and the SERO.
  - b. When prompted, enter the password.
  - c. Refer To Attachment 4, "Unit Event Backup Codes," and enter numeric backup event code.

# NOTE

- 1. This section is performed *only* when ENRS has failed or radiopager transmission was performed via "EasyView Remote."
- 2. A fax cover sheet is not required when distributing the IRF via SNET FaxWorks.
- 2.8.3 Distribute IRF via SNET FaxWorks as follows:
  - a. <u>IF SNET FaxWorks is not operable</u>, Refer To EPA-REF08B, "Offsite Towns/Agencies," and manually fax notification to State and local officials.
  - b. Place completed IRF in fax machine feeder tray.
  - c. Lift handset connected to fax machine, and enter SNET FaxWorks telephone number.
  - d. When prompted for password, enter SNET Faxworks password followed by an asterisk (\*).
  - e. When prompted, enter "1" to send a fax.
  - f. When prompted for choice of fax transmission schedule, enter "1" for immediate dispatch.
  - g. When prompted for destination or distribution list number, enter "002" followed by an asterisk (\*).

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- h. When prompted for next destination, enter pound key (#) to indicate there are no more destinations.
- i. When a steady fax tone is heard, press the "Start" button on the telecopier.
- j. Hang up handset of fax machine.

# NOTE

ERDS is not activated for a Unit 1 event.

- 2.8.4 Refer To Section 2.4 and activate the ERDS link.
- 2.8.5 Verify all required call-in radiopager holders have received the radiopager message and fax as follows:
  - a. Document non-responders.

# NOTE

- 1. Only one attempt is required for a UE backup notification.
- 2. The group RADIOPAGER number for State/Local pagers is 860-332-0059.
  - b. Refer To EPA-REF08B and attempt one backup notification of non-responders.
  - c. <u>IF</u> event is ALERT or higher and non-responders cannot be reached, perform the following:
    - 1) Contact State Police Barracks Dispatcher (Troop E)
    - 2) Request immediate assistance in notifying non-responders.
    - 3) Request police confirm response to the message.
  - d. Perform backup notifications.
- 2.8.6 Refer To EPA-REF08B, "Millstone Emergency Plan Resource Book," and notify Information Technology of ENRS failure.
- 2.8.7 Refer To EPI-FAP07-002, "NRC Notification Checklist," and ensure NRC notifications have been performed.
- 2.8.8 Refer To EPA-REF08B, "Millstone Emergency Plan Resource Book," and notify the Richmond Control Center Security Specialist.

- End of Section 2.7 -

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# NOTE

- 1. This section is performed only when dedicated ENS lines have failed.
- 2. In an emergency, with loss of other communications, the state or local police may be contacted by radio and requested to place a call to the NRC.
- 2.9.1 IF ENS has failed, select one of the following methods, as applicable:
  - Commercial telephone line
  - Cellular telephone (station management or personal vehicle)
  - Radio (state or local police to place call)
- 2.9.2 Obtain NRC Operations Center number from one of the following:
  - Label on ENS telephone
  - EPA-REF08B, "Millstone Emergency Plan Resource Book"
  - Other listing or directory assistance (alternate number)
- 2.9.3 WHEN NRC is contacted, provide the following information:
  - a. ENS is not operable
  - b. Information recorded in EPI-FAP07-003, "NRC Event Notification Form"
  - c. IF event is being terminated via the report, notice of event termination.
- 2.9.4 Refer To EPA-REF08B, "Millstone Emergency Plan Resource Book," and notify telecommunications personnel (not on-call) of ENS failure.
- 2.9.5 Log NRC communications.

- End of Section 2.9 -

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### 2.10 Switching Telephone Lines

# NOTE

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

- 2.10.1 Switching the Phone Server from Primary to Secondary
  - a. Lift the dedicated ENRS handset.
  - b. Press position "g" (blue button) labeled "Press for SERO Transfer."
  - c. Dial "2724."
  - d. Wait for confirmation tone (3 beeps).
  - e. IF confirmation tone is not heard, Go To Step 2.10.1.a.

# NOTE

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

- f. Hang up the handset and observe light on position "g" (blue button) illuminates, indicating transfer of SERO telephone lines.
- g. Lift the dedicated ENRS handset again.
- h. Press position "i" (red button) labeled, "Press for Transfer of State/Local to Back-up" and observe the following:
  - Light on position "i" (red button) will illuminate for a few seconds and then turn off.
  - Light on position "h" (yellow button) labeled, "Light 'ON' State/Local on Backup," will illuminate and stay on, indicating a transfer of State/Local lines.
- i. Hang up the handset.
- j. IF either OR both lights fail to illuminate, Go To Step 2.10.1.h.

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# NOTE

If the ENRS phone server is on the secondary system, green lights will be illuminated on the telephone.

2.10.2 Restoring the Phone Server from Secondary to Primary

- a. Press position "g" (blue button) labeled "Press for SERO Transfer."
- b. Observe that the light on position "g" (blue button) is <u>not</u> lit, indicating transfer of SERO lines.

2.10.3 Restoring the State/Local Lines to the Primary Server

- a. Lift the dedicated ENRS handset.
- b. Press position "j" (green button) labeled "Press to Restore State/Local to Primary" and observe the following:
  - Light on position "j" (green button) labeled "Press to Restore State/Local to Primary" is lit.

# NOTE

Lights on position "h" and position "j" will go out after illumination.

- Light on position "h" (yellow button) labeled "Light 'ON' State/Local on Backup" is <u>not</u> lit.
- Light on position "j" (green button) labeled "Press to Restore State/Local to Primary" is <u>not</u> lit.

- End of Section 2.10 -

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# 2.11 Deactivating ERDS

2.11.1 At plant process computer terminal for Unit 2:

- a. Locate the Unit 2 PPC TOP\_MENU display.
- b. Select the SPDS button.
- c. Select the Terminate ERDS button to terminate ERDS transmission.
- d. Select Yes to confirm termination.
- 2.11.2 At plant process computer terminal for Unit 3:
  - a. Select NSSS menu page 3 of 3.
  - b. Select Function F11 Activate/Terminate ERDS.
  - c. Select Function F2 to terminate ERDS transmission.
  - d. Select Function F12 to confirm termination.
- 2.11.3 Verify ERDS Termination as follows:
  - a. At the Unit 2 or Unit 3 TOP\_MENU display of an OFIS terminal, select OFIS menu button.
  - b. Select ERDS Point List button.
  - c. Verify "Data Transmission to the NRC ERDS" is "TERMINATED."
  - d. Verify "ERDS Status" is "ERDS Link Not Connected."
  - e. Verify "Time of Last Data Transmission to the NRC" is no longer updating.

- End of Section 2.11 -

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# 3. <u>SUMMARY OF CHANGES</u>

### 3.1 Revision 002-01

- 3.1.1 Added steps 2.1.16, 2.7.5.f, 2.7.8.g to provide notification to SERO if access to the EOF or TSC has been restricted.
- 3.1.2 Note 2.1.17, corrected typographical error.

#### 3.2 Revision 002

- 3.2.1 Changed EPUG 08B to EPA-REF08B in section 1.3, step 2.1.18, 2.2.3.b, 2.4.3, 2.8.3.a, 2.8.5.b, 2.8.6, 2.8.8, 2.9.2, 2.9.4, and FAP07-002.
- 3.2.2 Added note and steps 2.1.10, 2.7.7, and 2.7.8 to provide instructions on responding to a loss of the Flanders line.
- 3.2.3 Clarified in step 2.1.15 that callout is terminated from EasyView.
- 3.2.4 Clarified in steps 2.1.17.e and 2.8.4 note that ERDS is activated for an Alert or higher.
- 3.2.5 Updated title in step 2.6.5 to the Manager, Emergency Preparedness Department.
- 3.2.6 Added step in 2.7.5 to distribute IRF via SNET Faxworks.

#### 3.3 Revision 001-06

3.3.1 Added step 2.1.14 to describe actions if the wrong scenario has been chosen. (AR 01005566-09)

#### 3.4 Revision 001-05

3.4.1 Added steps f and g to step 2.1.12 to clarify how to prepare the IRF for transmittal.

#### 3.5 Revision 001-04

3.5.1 Moved Caution Box and steps g and h from step 2.1.14 to step 2.1.13.

#### 3.6 Revision 001-03

- 3.6.1 Reversed the order of step 2.1.13 and 2.1.14.
- 3.6.2 Added Note Box preceding step 2.1.14 to record the IRF voice message immediately after transmitting the IRF.
- 3.6.3 Added Note Box after Section 2.4 for when ERDS is required to be activated.

#### 3.7 Revision 001-02

- 3.7.1 Added step 2.1.15.e to activate the Emergency Response Data System (ERDS) link.
- 3.7.2 Added step 2.7.5.d to activate the ERDS link.
- 3.7.3 Added step 2.8.4 to activate the ERDS link if there is an ENRS failure.

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#### 3.8 Revision 001-01

- 3.8.1 Added notification to Corporate in step 1.4.
- 3.8.2 Updated group radiopager numbers for state and local pagers in step 2.2.3 and step 2.8.4.
- 3.8.3 Added step 2.4.3 to notify Richmond Control Center Security Specialist if an Unusual Event or higher.
- 3.8.4 Added step 2.8.7 to notify the Richmond Control Center Security Specialist.
- 3.8.5 Deleted the reference to the trunk line to the Corporate exchange in step 2.9.1.

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3.8.6 Added Richmond Control Center Security to notification locations in Attachment 3.

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# Attachment 1 Definitions and Abbreviations

(Sheet 1 of 2)

ADEOF - Assistant Director Emergency Operations Facility

CV - Callback Verification

Deactivate - To place a system, component, or organization in an inactive condition.

**Incident Description** - "Additional Information" section of the Incident Report Form (IRF) providing a simple description of the event.

Immediate Notification - Notification to the NRC of emergency, not to exceed 60 minutes of state verification.

**Initial Report** - The first notification to the NRC, State and Local Officials and Agencies, and applicable personnel that reports an NRC classification and State Posture Code emergency event.

Lead Unit - The unit which assumes classification responsibilities for reportable events. The lead unit may be any of the following:

- In unit specific events, the affected unit (For a Unit 1 event, Unit 2 is the lead unit until the DSEO and ADTS arrive).
- For non-unit specific events, (i.e., station security, hurricane, earthquake, fitness for duty, etc.) Unit 3 is the lead unit, unless otherwise designated.
- In situations involving multiple events, the unit experiencing the most severe event has the lead.
- For non-unit specific events (i.e., hurricane, earthquake, etc.), Unit 3 is the lead unit.
- A non-affected unit may be requested to assume the lead by the affected unit (e.g., loss of control room habitability).

Notification Time - The time at which the IRF message is released (reported on).

**Prompt Notification** - The official notification of State and Local Officials and Agencies is within 15 minutes following initial classification; official notification of the NRC is as soon as possible, but within 60 minutes of State notification via the ENS; and for reclassification of an NRC and State Posture Code emergency event. [State 22a-135-1]

**Reclassification Report** - A prompt notification, subsequent to the initial report, to State and Local Officials and Agencies, the NRC, and applicable personnel that reports an escalation or deescalation of event classification relative to the previous report.

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# Attachment 1 Definitions and Abbreviations

(Sheet 2 of 2)

SM - Shift Manager

**Termination Report** - The final notification to State and Local Officials and Agencies, the NRC, and applicable personnel that reports termination of the event. For Unusual Event (Delta-Two) or lower events, the initial report may also serve as the termination report if the event has been corrected in time for the initial report or has self-terminated. The "Additional Information" section shall be completed in these instances with a termination message.

#### UE - Unusual Event

**Update Report** - A notification, subsequent to the initial report, to State and Local Officials and Agencies, the NRC, and applicable personnel, that reports additional information on the event, but does not escalate or de-escalate classification of the event. The Update Report is issued approximately 60 minutes after the Initial or Reclassification Report.

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# Attachment 2 Responsibilities

(Sheet 1 of 1)

- 1. The CR-DSEO is responsible for directing the Shift Technician (ST) to complete notifications and approving Incident Report Forms (IRFs) until relieved by the DSEO.
- 2. The ST is responsible for completing off-site notifications.
- 3. After the EOF has been activated, the DSEO is responsible for approving completed IRFs; the Manager of Communications (MOC) is responsible for NRC communications; and the Assistant Director of Emergency Operations Facility (ADEOF) is responsible for directing the on-call ST to update and terminate off-site notifications.

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# Attachment 3 Notification Locations

(Sheet 1 of 1)

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Scenario: Unusual Event

Who is Paged:	SERO State and Local Officials (all)		
Who is Faxed:	State and Local Officials (all) Unit 2 & 3 Control Rooms Richmond Control Center Security		
Who is Called (automatic):	NNM, MRDA, MPI, all Unit ADTSs New London, Ledyard		
Who Should Call-In:	14 required State and Local Officials NNM, MRDA, MPI, all Unit ADTSs		
Scenario: Alert, Site Area Emergency, and General Emergency			
Who is Paged:	SERO State and Local Officials (all)		
Who is Faxed:	State and Local Officials (all) Unit 2 & 3 Control Room Richmond Control Center Security		
Who is Called (automatic):	New London, Ledyard SERO (after 15 minutes)		
Who Should Call-In:	14 required State and Local Officials SERO (all)		

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# Attachment 4 Unit Event Backup Codes

(Sheet 1 of 1)

# NOTE

If a Unit Event Backup Code notification (e.g., ID 101, 201, 301) is received, ENRS has failed.

Personnel on-call, or subject to call must immediately report to their emergency response facility for an Alert or higher classification. Table 1 indicates the event and unit involved for each designated code. For an Unusual Event, no call-in is required, however, personnel should standing by for further information.

Event	Unit 1	Unit 2	Unit 3
Unusual Event	101	201	301
Alert	102	202	302
Site Area Emergency	N/A .	203	303
General Emergency	N/A	303	403
Drill-Come In	777	777	777
Drill-Call In	888	888	888

# Table 1: Unit Event Backup Codes

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# Attachment 5 Notification and Callback Guidance

(Sheet	1	of	1)	
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	CLASSIFICATION					
ACTION (✓ = Required)	UE (Delta-1, 2)	ALERT (Charlie 1)	SAE (Charlie 2)	GE (Bravo) (Alpha)		
Nuclear IRF:						
• Enter current meteorological data	1	1	✓	1		
• Enter "Additional Information" in first message	• (a)		_	_		
• Enter "Additional Information" in update		$\checkmark$	$\checkmark$	$\checkmark$		
Issue termination in first message	✓ (a)	1	1	1		
• Issue termination in update message						
CALLBACK/BACKUP NOTIFICATIONS						
• Radiopager (EPI-07-03)	1	1	✓	✓		
• REQUEST State Police call non-responding towns (EPI-07-03)	~	✓	*	*		
OTHER:						
• ENS notification to NRC (b)	✓	~	✓	✓		
NRC Resident notification	✓	✓	1	✓		

# NOTES:

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

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Docket Nos. 50-245 50-336 50-423 B18725

Attachment 13

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

Emergency Procedures Implementing (EPI) Functional Administrative Procedure (FAP) MP-26-EPI-FAP08, "Evacuation and Assembly" <u>Major Revision 0, Minor Revision 5</u>

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# **Functional** Administrative Procedure



# **Evacuation and Assembly**

# **MP-26-EPI-FAP08**

# **Rev. 000-05**

Approval Date: $\frac{1}{24/02}$ Effective Date: $\frac{7}{19/02}$ 



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# 1. <u>PURPOSE</u>

# 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"

MP-26-EPA-REF08B, "Millstone Emergency Plan Resource Book "

C OP 200.6, "Storms and other Hazardous Phenomena"

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### 1.4 Discussion

This procedure provides guidance for on-site protective actions 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
- Security-related event

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; the unaffected unit needs to be informed of sprotective 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

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Any of the following protective actions are predicated on the assumption that the conditions support the actions. Since all possible scenario combinations cannot 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 unless constraints exist, 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 Emergency or General Emergency classification levels unless constraints exist. Site evacuation may be called for at the Alert level classification; however, conditions which require a site evacuation are inherently defined as Site Area Emergency events and should be classified as such. Evacuation can be accomplished in about 30 minutes.

Evacuation can involve the movement of large numbers of personnel outside of the Protected Area by keying out of the turnstiles at the NAP or SAP. Evacuation may warrant station egress control by Security. Following discussion with the Connecticut State Police and the Waterford Police Departments, Security will provide specific instructions to personnel in the parking areas as requested by these 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.

If the main access road is restricted to traffic, alternate egress routes are available for evacuation.

Evacuation may be deferred if the nature of the threat (weather-related, securityrelated, radiological release) poses a threat to the safety of the evacuating population.

#### 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 or a Security threat. A local area evacuation needs to be initiated anytime personnel in an occupied area may be at risk from an identified hazard. It is a standard response for control room personnel to take actions immediately upon acknowledging the hazard or threat.

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#### 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 where evacuation would pose a threat to 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.

Sheltering could prevent full SERO activation and Emergency Response Facility activation within 60 minutes of an event (i.e., security-related) because of constraints inside the Protected Area.

#### 1.4.6 Relocation of EOF and TSC

Designated backup locations have been established for the EOF and TSC if either of these locations cannot be inhabited. These locations provide facilities for SERO members so that responsibilities can be performed.

EOF relocation will be to the upper level of the TSC (the mechanical room). EOF staff assemble in this location, receive a briefing of the event, and then relocate to the following areas:

Unit 3 Control Room

- DSEO
- MOC (affected unit)
- MPI
- MRDA
- AMRDA (1)
- RAE(1)
- FTDC, after briefing RMTs #3, #4, #5

OSC AA

- ADEOF
- TICs
- MOR
- ST
- HP Tech
- MOC (unaffected unit)
- AMRDA (1)

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- RAE (1)
- Rad Com
- Met Assistant
- ERC
- SEPR
- RL

The ADEOF may choose to relocate team members to another location in Building 475 (such as the video conferencing area on the 5<sup>th</sup> floor) where additional equipment, work space, and other capabilities already exist. Communication can then be established with Control Room SERO members.

RMT #3, #4, #5 will be deployed from upper level TSC.

TSC relocation is the EOF. A designated workspace is provided with procedures, drawings, phone lines, and computers to support current SERO TSC members.

All TSC staff assemble in this location *except* for OSC Assistants. They will report to the OSCAA, establish communications to the relocated TSC, and perform duties from this location.

1.4.7 Assembly

Assembly occurs at the Alert emergency classification level or higher. Nonessential personnel are not involved in assembly activities. The Assembly Areas are 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.

There are two Assembly Areas, one located in the Bldg 475 Cafeteria and one located in the Simulator Foyer. These areas would be used by SERO personnel in the event of a declared emergency. The Cafeteria is designated for SERO personnel whose assigned emergency response facility (TSC, OSC, OSC AA, and Control Room) is inside the protected area. The Simulator Foyer is designated for SERO who report to the EOF. The Assembly Areas serve as "Holding Locations" for SERO personnel until such time as all necessary positions are filled, no need for special expertise or experience for the particular event has been identified, and second shift staffing rotations have been established.

Backup to the Simulator Foyer is the OSC AA.

#### 1.4.8 Accountability

Accountability is automatically conducted at a Site Area Emergency 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 SM or ADTS.

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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.
- 1.4.9 Definitions and abbreviation are contained in Attachment 1, "Definitions and Abbreviations." Responsibilities are contained in Attachment 2, "Responsibilities."

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# 2. <u>INSTRUCTIONS</u>

#### 2.1 Precautionary Dismissal

- 2.1.1 Assess the nature, probable cause, and duration of the hazard and perform the following:
  - a. <u>IF</u> event is security related and a Security assessment has *not* been completed, delay the dismissal until the assessment is completed by Security.
  - b. <u>IF</u> event requires sheltering instead of dismissal, Refer To Section 2.2, "Sheltering."
  - c. <u>IF</u> event is *not* security related <u>OR</u> a Security assessment has been completed, provide the SSS/MOS with all available information.
  - d. Consider the status of SERO activation prior to the dismissal of personnel.

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

- Decision to shelter site personnel.
- Additional personnel assigned to the NAP and SAP to assist in the egress of large numbers of personnel as necessary.
- Use of alternate egress routes, if needed.
- Estimated time to pre-position personnel to support the dismissal.
- Existence of any local-area or site access restrictions.
- Need to sweep areas outside the protected area.
- Need for additional off-site support .
- 2.1.3 Notify the following of planned actions and announcements:
  - a. IF the SERO is in the process of activation, the DSEO and the ADTS.
  - b. The unaffected unit control room.
- 2.1.4 Perform the following:
  - a. Activate the outside speakers.
  - b. Select station public address system (priority page or 810).
  - c. IF alternate routes are being used for the dismissal, include instructions in announcement.

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d. Announce the following: Attention all personnel. Attention all personnel. All non-SERO 4 employees, contractors and visitors leave the site at this time. (5) (IF alternate routes are being used, provide directions) Repeat the announcement. e. Log the time the announcement was completed. f. IF the public address system is inoperable, consider using the following as 2.1.5 alternatives for personnel notification: Security sweeps using bull horns 4 HP personnel **O&M** radios 2 2.1.6 WHEN the precautionary dismissal has been completed, DIRECT SSS/MOS to perform accountability.

#### 2.2 Sheltering

- 2.2.1 <u>IF</u> the event involves a situation where site personnel should be sheltered (i.e., Security-related, weather-related, fire, toxic gas, an evacuation is not possible), perform the following:
  - a. Determine the nature of the constraint:
    - Not enough time to conduct an evacuation (weather-related, rad release).
    - Short-lived hazard (chemical, toxic gas)
    - Radiological release
    - Evacuation would threaten the safety of the evacuees
    - Intrusion by a hostile force
  - b. IF SERO is staffed, contact the following to discuss course of action :
    - For radiological-related, MRCA
    - For security-related, MOS
    - EOF DSEO
  - c. Inform unaffected unit of the event and sheltering actions planned.
- 2.2.2 Refer To Attachment 3, "Examples of On-Site Protective Actions and Announcements," and prepare announcement.
- 2.2.3 Ensure outside speakers are activated.
- 2.2.4 Review the wording for the station notification message and announce the sheltering instructions.
- 2.2.5 Repeat the PA announcement.
- 2.2.6 Log the time of announcement on EPI-FAP15-012, "SERO Log Sheet."
- 2.2.7 Refer To appropriate section of EPI-FAP01-001 and perform actions.

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2.3 Evacuation

# NOTE

Evacuation is automatically conducted at a Site Area Emergency 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.

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

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

- a. <u>IF</u> the station evacuation is constrained (i.e. security related, weather related, fire or toxic gases), consider delaying evacuation until an assessment has been completed.
  - 1) Notify SSS/MOS of decision *not* to evacuate.
- 2.3.2 Direct the SSS/MOS to perform the following:
  - a. <u>IF</u> evacuation via the main access road is restricted, discuss the use of alternate egress routes.
  - b. Inform Waterford Dispatch of time and purpose of any planned on-site siren activation.
  - c. Establish and maintain traffic control with the Waterford and Connecticut State Police departments including alternate egress routes, as applicable.

### 2.3.3 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. <u>IF</u> alternate evacuation routes are being used, include instructions in announcement.
- e. Announce the following:

Attention all personnel, Attention all personnel. All non-SERO employees, contractors, and visitors evacuate the site at this time. (IF alternate routes are being used, provide directions). Security initiate accountability.

- f. Repeat the announcement.
- g. Log the time of the announcement.

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- 2.3.4 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
- 2.3.5 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.

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c. Provide key search accountability results within 30 minutes if not previously conducted.

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#### 2.4 Accountability

- 2.4.1 IF a site evacuation has been conducted, perform the following:
  - a. Upon declaration of a Site Area Emergency or General Emergency, direct CAS to implement accountability procedures.
  - b. 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.
  - c. Within 40 minutes of the announcement to conduct accountability, (5) perform the following:
    - 1) Obtain the missing persons report.
    - 2) Determine the approximate number of personnel who are unaccounted for by badge or telephone call.
    - 3) Notify the ADTS of the results.
  - d. <u>IF</u> 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.

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

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#### 2.5 Assembly

- 2.5.1 Dispatch the ERC to the Simulator Foyer Assembly Area.
- 2.5.2 Direct the ERC (in the Simulator Foyer) and the MOSC (in the OSC Assembly Area) to develop a roster of personnel which contains the following information:
  - a. Name
  - b. SERO position
  - c. Home or point of contact number
- 2.5.3 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. <u>IF</u> qualified personnel are not available from the Assembly Areas, Refer To MP-26-EPA-REF08B, "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.
    - <u>IF</u> 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.
- 2.5.4 Determine if any of the emergency facilities require the assistance of additional personnel and coordinate their movement as necessary.
- 2.5.5 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. <u>IF</u> qualified personnel are not available from the Assembly Areas, Refer To MP-26-EPA-REF08B, "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.
    - <u>IF</u> 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.
- 2.5.6 Begin a first relief roster and schedule for the Emergency Response Facilities from the assembled personnel.

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- 2.5.7 Release personnel from the Assembly Areas as soon as possible as follows:
  - a. Ensure personnel released from the Assembly Areas are directed to Standby 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.
- 2.5.8 Discuss establishing a staging area for personnel and resources outside the 10 mile EPZ with DSEO as conditions warrant.

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#### 3. <u>SUMMARY OF CHANGES</u>

#### 3.1 Revision 000-05

- 3.1.1 Added security-related events to Section 1.4.
- 3.1.2 Minor editorial change in step 1.4.1.
- 3.1.3 Clarified in step 1.4.2 that a precautionary dismissal occurs at the Alert level unless constraints exist.
- 3.1.4 Clarified in step 1.4.3 that a site evacuation is initiated at the Site Area Emergency (SAE) or General Emergency (GE) unless constraints exist.
- 3.1.5 Minor editorial change in step 1.4.3. Added information on alternate egress routes.
- 3.1.6 Clarified in step 1.4.4 that a local area evacuation may be the result of a Security threat.
- 3.1.7 Clarified in step 1.4.5 that sheltering may be chosen instead of evacuation.
- 3.1.8 Added steps 1.4.6 and 1.4.7 for information on relocated EOF, Backup TSC, and relocated assembly area for simulator foyer.
- 3.1.9 Added step 2.1.1.b, 2.1.2, and 2.1.4 to precautionary dismissal to provide reference to sheltering and use of alternate egress routes.
- 3.1.10 Modified step 2.2.4 and added steps 2.2.5 and 2.2.7 to clarify the sheltering procedure.
- 3.1.11 Added step 2.3.1.a.1) on sheltering.
- 3.1.12 Added steps 2.3.2.a and 2.3.3.d to provide information on alternate egress routes.
- 3.1.13 Clarified in step 2.3.5.c that key search accountability results are available within 30 minutes.
- 3.1.14 Modified step 2.4.1.c to identify missing persons in about 40 minutes in accordance with security procedures.
- 3.1.15 Clarified in Attachment 3, Security Event, that a follow-up action to sheltering is to conduct precautionary dismissal, evacuation, and accountability as deemed appropriate when the threat has been resolved. Added information on the classification level.
- 3.1.16 Various editorial comments.

#### 3.2 Revision 000-04

- 3.2.1 Minor editorial changes.
- 3.2.2 Added Section 2.2, Sheltering.
- 3.2.3 Added definitions to Attachment 1, "Definitions and Abbreviations."

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3.2.4 Added example to Attachment 3, "Examples of Onsite Protective Actions and Announcements," for situations which may require sheltering.

### 3.3 Revision 000-03

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

### 3.4 Revision 000-02

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

### 3.5 Revision 000-01

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

### 3.6 Revision 000

3.6.1 Original issue

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# Attachment 1 Definitions and Abbreviations

(Sheet 1 of 2)

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

ADTS - Assistant Director Technical Support

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

CAS - Central Alarm Station

**DSEO** - Director of Station Emergency Operations

EPZ - Emergency Planning Zone

ERC - External Resources Coordinator

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.

MOS - Manager of Security

MRCA - Manager Radiological Consequence Assessment

NAP - North Access Point

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

PA - 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.

SAP - South Access Point

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# Attachment 1 Definitions and Abbreviations

(Sheet 2 of 2)

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

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

SM - Shift Manager

SSS - Security Shift Supervisor

TSC - Technical Support Center

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# Attachment 2 Responsibilities

(Sheet 1 of 1)

- 1. The Security Shift Supervisor/Manager of Security 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)

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# Attachment 3 Examples of On-Site Protective Actions and Announcements

(Sheet 1 of 3)

# 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 (or chemical) 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.

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# Attachment 3 Examples of On-Site Protective Actions and Announcements

(Sheet 2 of 3)

# 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). Security Event (Intrusion by a hostile force) Example 4. (Sheltering Actions) (5) Objectives: a) Avoid injury to station personnel b) Prompt sheltering ATTENTION ALL PERSONNEL! ATTENTION ALL PERSONNEL! An (4) has been declared at (Unit # ). (Unusual Event)(Alert)(Site Area Emergency)(General Emergency) There is a [insert nature of constraint (e.g., Security event)] occurring at the station. until further notice. Take shelter indoors. Close windows and Avoid the doors and stay clear of windows. Do not leave the building. Stand by for additional instructions. (SERO members report to your designated emergency response facility.) OR (SERO members take shelter.) Follow-up: a) Warn personnel to avoid specific areas onsite and remain indoors. b) When appropriate, announce termination of hostile situation. (5) c) WHEN the threat has been resolved, conduct SERO activation, precautionary dismissal, or evacuation and accountability as deemed appropriate. MP-26-EPI-FAP08 Rev. 000-05 23 of 24

# Attachment 3 Examples of On-Site Protective Actions and Announcements

(Sheet 3 of 3)

Example 5. Evacuation of Site (radiological release in progress, conditions degrading)

Objectives: a) Emergency event declared

- 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).

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