

**Northeast
Nuclear Energy**

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The Northeast Utilities System

JUN 25 1997

Docket Nos. 50-245

50-336

50-423

B16534

Re: 10CFR50, Appendix E
10CFR50 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
Emergency Plan Revision 22

The purpose of this letter is to inform the NRC Staff that Revision 22 to the Millstone Nuclear Power Station Emergency Plan was implemented in June 1997.

This revision entails changes to the structure and function of the Millstone Station Emergency Response Organization (SERO). A complete summary of the plan changes is contained in Attachment 1. Revision 22 to the Millstone Station Emergency Plan is provided in Attachment 2.

Northeast Nuclear Energy Company has reviewed this revision in accordance with 10CFR50.54(q) and has determined that the revision does not decrease the effectiveness of the plan. The plan, as revised, continues to meet the intent of the standards of 10CFR50.47(b) and the requirements of Appendix E to 10CFR50.

If you have any questions concerning this submittal, please contact Mr. Michael D. Ehredt at (860) 440-2142.

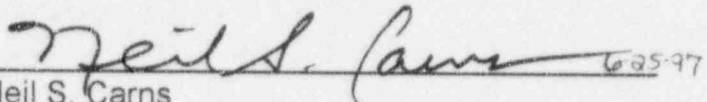
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Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY


Neil S. Carns
Senior Vice President and Chief Nuclear Officer

Attachments

cc: H. J. Miller, Region 1 Administrator
W. D. Travers, Ph.D., Director, Special Projects Office
P. F. McKee, Deputy Director, Licensing and Oversight, Special Projects Office
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Attachment 1

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

Summary of Station Emergency Plan Changes

June 1997

**Emergency Plan Revision 22
Summary of Changes**

Section	Comments
Table of Cont.	Revised to reflect changes in various sections.
1.1	Minor editorial changes to improve clarity.
1.2	Deleted references to ERFs covered elsewhere in plan.
1.3	<ul style="list-style-type: none"> Deleted reference to ENRS and details of notification covered elsewhere in plan. Deleted references to incident classifications and PARS covered elsewhere in plan. Deleted references to site EOF, Executive Spokesman information covered elsewhere in plan. Deleted references to PARs and Governor's actions covered elsewhere in plan.
1.4	Minor editorial changes.
1.5	<ul style="list-style-type: none"> Revised to reflect change from EBS to EAS. Minor editorial changes. Deleted unnecessary details to improve clarity.
1.6	Minor editorial changes.
Table 1-1	Revised to include state evacuation zone populations.
Figure 1-1	<ul style="list-style-type: none"> Revised to reflect current state/local/licensee responsibilities. Minor editorial changes.
Figure 1-2	<ul style="list-style-type: none"> Revised to correct typographic errors. Revise to reflect current state/local agency responsibilities.
Figure 1-3	Revised to reflect SERO command and control structure changes
Figure 1-4	Deleted information covered elsewhere in plan.
Table 2-1	Deleted Yale-New Haven Hospital supporting plan. No longer included in emergency plan.
Section 3	Deleted unnecessary information concerning plan structure.
4.0	Revised to increase clarity. Deleted unnecessary information covered elsewhere in plan.
Table 4-1	<ul style="list-style-type: none"> Added state posture code to classification. Minor editorial changes.
Table 4-2	<ul style="list-style-type: none"> Added state posture code to classification. Minor editorial changes.
Table 4-3	<ul style="list-style-type: none"> Added state posture code to classification. Minor editorial changes.

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Summary of Changes**

Table 4-4	<ul style="list-style-type: none"> • Added state posture code to classification. • Minor editorial changes.
5.0	<ul style="list-style-type: none"> • Revised to reflect new SERO position types. • Deleted ODSEO position. • Added Station Duty Officer position. • Revised title of SCO to Unit Supervisor. • Added Fire Brigade .
5.1.2	Added STA description.
5.1.9	Added Station Duty Officer position.
5.1.10	Added Fire Brigade positions.
5.2	Changed IRG position to specialized resource. (Table 5-1)
5.2	Deleted ODSEO position.
5.2.1	<ul style="list-style-type: none"> • Revised DSEO responsibilities to reflect SERO structure changes • Editorial changes to improve clarity.
5.2.2	<ul style="list-style-type: none"> • Revised ADTS responsibilities to reflect SERO command and control structure changes. • Editorial changes to improve clarity.
5.2.3-5.2.11	Minor editorial change to improve clarity.
5.2.9-5.2.11	Added on-call positions: <ul style="list-style-type: none"> • RMT A/B • EOF HP Technician • EOF Shift Technician
5.3	General changes to reflect changes to personnel designation from on-call to Augmented Staff. Added positions to section for consistency with Table 5-1.
5.3.1	Added and Changed CRDC position to Augmented Staff.
5.3.2	Changed MOR position to Augmented Staff.
5.3.3	Changed ERC position to Augmented Staff.
5.3.4	Changed MPI position to Augmented Staff.
5.3.5	Changed ES position to Augmented Staff.
5.3.6	Changed NNM position to Augmented Staff.
5.3.7	Changed TA position to Augmented Staff.
5.3.10	Changed RAE position to Augmented Staff.
5.3.11	Changed AMRDA position to Augmented Staff.
5.3.12	Changed FTDC position to Augmented Staff.
5.3.13	Changed TIC position to Augmented Staff.

Emergency Plan Revision 22 Summary of Changes

5.3	Added position to Augmented Staff: <ul style="list-style-type: none">• Technical Support Center-SRO.
5.3	Deleted previous Section structure covered elsewhere in plan.
5.4.1-5.4.3	Minor editorial changes to improve clarity.
5.4.4	Deleted section covered elsewhere.
Table 5-1	<p>Revised to reflect change in SERO structure. Revised to reflect position title changes. Revised to change in SERO position type. The following positions have been revised:</p> <ul style="list-style-type: none">• Added STA position to table.• Deleted ODSEO reference.• Added Recovery Officer normal title to ES position.• Changed Nuclear Information normal titles.• Added Duty Officer and SRO to Notification function.• Added TSC-SRO to Augmented Staff• Removed specific normal titles from ADEOF emergency position.• Added EOF HP Technician functional area.• Changed MPI function to Augmented Staff.• Changed CRDC function to Augmented Staff.• Added Chemistry Assessment tasks to Radiological Protection function.• Added Chemistry Supv / staff to MRDA position, placed position in minimum staffing required column.• Reduced RAE to 1 Augmented Staff position.• Added Engineers and Scientists to initial dose assessment tasks, revised to 2 Augmented Staff positions.• Placed FTDC in Augmented Staff position.• Changed Met Team normal position to Scientists / Engineers.• Changed Environmental Sampling Team task to Augmented Staff-specialized resource.• Changed MTSC to on-call position only.• Placed Generation Test Specialist into on-call position.• Added additional Accident Management Team Leader position to Augmented Staff.• Changed AMT Engineer position to Augmented Staff.

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Summary of Changes

Table 5-1 (continued)	<ul style="list-style-type: none"> • Changed Repair and Corrective Action function, to Maintenance Management normal position. • Placed Mechanic, Electrician and I&C Technician into 30-60 minute on-call position. • Placed both OSC Assistant positions to Augmented Staff. • Changed MOR normal position to Station Staff, placed MOR into Augmented Staff category. • Changed ERC normal position to Station Staff. • Changed IRG Team Member to specialized resource Augmented Staff category. • Changed Firefighting functional area to Fire Brigade normal position and changed location to as required. • Added Station Personnel to search and rescue function. • Added External Response Logistics functional area as specialized resource Augmented Staff. • Added SERO Notifications functional area. • Added Off-site Communications functional area, Augmented Staff position. • Added HP Communications functional area, Augmented Staff position. • Added Exposure Control functional area, Augmented Staff position. • Changed Site Access functional position, normal title to Security Shift Supervisor. • Changed Note "b" to define Augmented Staff resources. • Revised Note "e" for clarity. • Revise Note "h" for clarity. • Added Note "k" to define specialized resources • Added Note "i" to indicate totals do not reflect security or fire brigade staff on-shift. • Deleted 75-90 minute responder note. • Deleted ODSEO note. • Added clarification of response time based on notification time.
Figure 5-1 (Chart 1)	Deleted unnecessary information for clarity. Revised to reflect new PAR process.
Figure 5-1 (Chart 2)	Deleted unnecessary information for clarity. Incorporated information from previous Charts 3 and 4.

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Summary of Changes

Section 5	Deleted Figure 5-2. Planning standard met by table 5-1, showing relationship of normal positions and titles to emergency positions.
6.1	<ul style="list-style-type: none"> • Editorial changes to improve clarity and reflect State RERP requirements to discontinue notifications. • Editorial changes to improve clarity of Message Format information. • Editorial changes to clarify licensee and state response during activation of emergency plan. • Editorial changes to improve clarity. • Added information regarding workspace and communications for external responders. • Added information on state communications systems. • Added reference to figures depicting lines of communication.
6.2.1	<ul style="list-style-type: none"> • Changes to reflect removal of ODSEO position. • Changes to include on-shift dose calculations for modified PARs. • Added discussion of basis for accident specific PARs. • Editorial changes to improve clarity.
6.2.2	<ul style="list-style-type: none"> • Changes to reflect revisions to licensee PAR development process. • Change to reflect inclusion of modified PAR based on fission barrier failure. • Editorial changes to improve clarity.
6.2.3	<ul style="list-style-type: none"> • Added information concerning dose assessment activities. • Changes to reflect dose assessment performed by the control room or EOF. • Editorial changes to improve clarity.
6.2.3.a	Editorial changes to improve clarity.
6.2.3.c	Minor editorial changes to improve clarity.
6.2.4	Renumbered section for consistency.
6.2.4.a	Minor editorial changes to improve clarity.
6.2.4.c	Minor editorial changes to improve clarity.
6.2.4.e	Minor editorial changes to improve clarity.
6.2.4.h.1	Deleted unnecessary information covered elsewhere in plan.
6.2.4.h.4	<ul style="list-style-type: none"> • Minor editorial changes to improve clarity. • Substitution of Seabrook as source of additional personnel and equipment.
6.2.4.h.6	Deleted unnecessary information.

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6.2.4.k	Change to clarify population dose calculations are performed by state personnel.
6.2.5	Editorial changes to clarify.
6.3	Minor editorial changes to clarify.
6.3.2	Minor editorial changes to clarify.
6.4.1	Minor editorial changes to clarify.
6.4.1.a	Added station procedure reference.
6.4.1.c	Editorial changes to improve clarity.
6.4.1.d	<ul style="list-style-type: none"> • Changes to goal of 45 minutes to complete evacuation. • Editorial changes to improve clarity.
6.4.1.e	Editorial changes to improve clarity.
6.4.1.f	<ul style="list-style-type: none"> • Deleted reference to personnel having emergency dosimetry in possession at all times. Dosimetry on-site is controlled by RPM procedures. • Editorial changes to improve clarity.
6.4.3	<ul style="list-style-type: none"> • Deleted unnecessary information, referenced in the RPM. • Editorial changes to improve clarity.
6.4.4	Editorial changes to improve clarity.
6.5	Minor editorial changes to improve clarity.
6.5.2	Minor editorial changes to improve clarity.
6.5.3	<ul style="list-style-type: none"> • Editorial changes to improve clarity. • Deleted reference to Yale-New Haven Hospital, Lawrence and Memorial Hospital provides decontamination medical services for the site per letter of agreement.
6.5.4	Deleted unnecessary information to improve clarity.
6.5.5	<ul style="list-style-type: none"> • Editorial changes to improve clarity. • Deleted unnecessary information.
6.5.6	Deleted reference to Yale-New Haven Hospital. Lawrence and Memorial or Middlesex Hospitals provide this service per letter of agreement.
6.6	Minor editorial changes to improve clarity.
Table 6-1	<ul style="list-style-type: none"> • Changed authorization for use of KI to ADTS or ADEOF • Minor editorial changes to improve clarity.
Table 6-2	Deleted DSEO as authorization for exposures >25 rem, to reflect SERO command and control structure change.

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7.1.2	Deleted unnecessary information to improve clarity.
7.1.3	Deleted unnecessary information to improve clarity.
7.2.2	Minor editorial changes to improve clarity.
7.2.3	Deleted unnecessary details.
7.2.8	Deleted unnecessary details.
7.3.1	<ul style="list-style-type: none"> Deleted reference to activation time, covered elsewhere in plan. Editorial changes to improve clarity.
7.3.3	Deleted unnecessary details.
7.3.4	Deleted unnecessary details to improve clarity and accuracy.
7.3.5	Editorial changes to improve clarity.
7.3.7	Minor editorial changes to improve clarity.
7.3.8	Deleted unnecessary details.
7.4.1	Editorial changes to improve clarity and accuracy.
7.4.2	Minor editorial changes to improve clarity.
7.4.4	Minor editorial changes to improve clarity.
7.5, 7.6	Deleted sections, assembly areas no longer addressed in procedures.
7.7	Renumbered section for consistency.
7.8	Changed to reflect restructure of SERO activation procedures.
7.9	<ul style="list-style-type: none"> Changes to clarify responsibility for activation and operation of the Joint Media Center. Added clarification concerning use of EOF for media functions.
7.11	<ul style="list-style-type: none"> Changes to ensure accuracy of information. Minor editorial changes to improve clarity.
7.12	Deleted unnecessary information.
7.13	Changed to reflect EMT coverage for on-site first aid.
7.14	Editorial changes to improve clarity.
7.15	<ul style="list-style-type: none"> Deleted reference to SODAR system no longer in service. Deleted unnecessary details. Deleted reference to Figure 7-2a.
Table 7-1	Minor editorial changes to improve clarity.
Figure 7-1a	Revised to improve accuracy.
Figure 7-1d	Deleted figure, unnecessary detail.
Figure 7-2a	Deleted figure, unnecessary detail.
Figure 7-2b	Deleted figure, unnecessary detail.

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Figure 7-2c	Deleted figure, unnecessary detail.
Section 8	<ul style="list-style-type: none"> Revised to reflect new titles for Emergency Planning Services. Editorial changes to improve clarity.
8.1.1	<ul style="list-style-type: none"> Deleted information contained in training program procedures. Deleted unnecessary information. Editorial changes to improve clarity.
8.1.2	Changed to accurately describe off-site training program.
8.1.3.a	Changed to reflect current training programs.
8.1.3.b	<ul style="list-style-type: none"> Changed to reflect revised training programs for Fire Brigade. Changed to reflect Fire Brigade structure.
8.1.3.c	Changed to reflect current training programs.
8.2	<ul style="list-style-type: none"> Renumbered for consistency. Added information concerning drill conduct.
8.2.1.a	Editorial changes to improve clarity.
8.2.2.a	<ul style="list-style-type: none"> Editorial changes to improve clarity. Delete reference to NRC ENS and HPN system.
8.2.2.c	<ul style="list-style-type: none"> Changed to reflect EPS Director title change. Editorial changes to improve clarity.
8.2.2.f	Deleted reference to outside assistance during drills.
8.2.2.g	<ul style="list-style-type: none"> Changes to clarify exercise participation requirements. Change to clarify conditions for non-participation of local government in exercises. Editorial changes to improve clarity.
8.2.2.h	<ul style="list-style-type: none"> Changes to clarify exercise critique administrative requirements. Clarified requirements to compile, track and disposition exercise review comments.
8.3	<ul style="list-style-type: none"> Major editorial changes to clarify requirements. Change to reflect administration of emergency plan and procedures consistent with station procedures. Changes to reflect title changes (EPS Director)
8.4	Editorial changes to improve clarity.
9.2, 9.2.1	Reorganized paragraphs for clarity.
9.2.2	Minor editorial changes for clarity.
9.2.3	Minor editorial changes for clarity.
9.2.4	Editorial changes to improve clarity.

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9.2.5	Editorial changes to improve clarity.
9.2.6	Editorial changes to improve clarity.
9.2.7	Editorial changes to improve clarity.
9.2.8	Editorial changes to improve clarity.
Appendix A	<ul style="list-style-type: none">• Minor editorial changes to correct typographic errors.• Changes to clarify terminology for evacuation.• Minor changes to improve clarity.• Added Unit Supervisor (US) to abbreviations.• Added Station Duty Officer (SDO) to abbreviations.
Appendix B	<ul style="list-style-type: none">• Changed weather service provider to New England Weather Service.• Deleted Yale-New Haven Hospital agreement.
Appendix C	<ul style="list-style-type: none">• Deleted Figure C-2 and C-3 maps, replaced with Figure C-2 listing locations of on-site and off-site monitoring stations.• Added map Figure C-1 depicting emergency planning zone, host communities and evacuation routes.
Appendix D	<div>BT 6-11-97</div> <ul style="list-style-type: none">• Deleted procedure EPOP 4428 "Assistant Manager, Radiological Dose Assessment".• Deleted procedure EPOP 4431 "Initial Dose Assessment".• Added procedure EPOP 4432 "On-Shift Dose Assessment".• Added ACP^{EPAP} 1.15 "Emergency Preparedness Administration Procedure".• Revised plan section reference numbers for accuracy.
Appendix E	Reformatted table for legibility and accuracy.
Appendix F	Included note indicating diagrams represent typical facility layout, actual configurations may vary.
Appendix G	<ul style="list-style-type: none">• Revised cross-reference to conform with current section numbering.• Added additional plan references addressing planning standards.• Reformatted table for improved clarity.
Appendix H	Corrected typographic errors in meteorology systems.

**Emergency Plan Revision 22
Summary of Changes**

Appendix K	<ul style="list-style-type: none">• Revised section summary page K-2 to indicate total population data from 1997 ETE revision project.• Replaced Table K-1 indicating sector ETEs, with new Table K-1 based on State of Connecticut evacuation zones, with 1997 revised ETE data.• Deleted Figure K-1, information depicted in new Figure C-1.
Appendix L	<ul style="list-style-type: none">• Deleted Radiation Accident Plan, Yale-New Haven Hospital.• Corrected typographic errors in item #5.

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Attachment 2

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

Station Emergency Plan, Revision 22

June 1997